

A Work Project, presented as part of the requirements for the Award of a Master's degree in
Business Analytics from the Nova School of Business and Economics.

Creating a Web Application to Enhance the Relationship between Individuals and Charitable Organizations

Improve Transparency and Awareness by Integrating Multiple Sources of Information

Maria Baglieri Occhipinti - 49638

Work project carried out under the supervision of:

Hugo Menino Aguiar

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Abstract

Information asymmetries and a lack of a trustworthy environment between individuals and charities represent two of the major obstacles to philanthropy. Through in-depth primary analysis and research, we identified some valuable means to overcome these problems. This study proposes as a solution a customized interface for nonprofit organizations and potential donors to communicate. Thanks to this medium, individuals will have a deeper comprehension of the impact charities are having, hence strengthening their trust in them. We went through an ideation process and developed a minimum viable product, in the form of a web application, that ultimately contributes to the achievement of a more philanthropic society.

Keywords: Charity Sector, Nonprofit organizations; Reactive Web Application; Outsystems; Donations; Information; User Engagement.

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Table of Contents

Abstract

1. Introduction	1
1.1 Motivation	1
1.2 Problem Statement	2
1.3 Goals	2
1.4 Challenges	2
1.5 Research Methodology and Approach	3
1.6 Work Project Structure	4
2. Research and Analysis	5
2.1 Introduction and Methodology	5
2.2 Primary Data Analysis	5
2.2.1 Survey Design and Distribution	6
2.2.2 Survey Analysis	6
2.2.3 Findings and Results	6
2.2.4 Survey Limitations	8
2.3 PEST Analysis	8
2.3.1 Political Factors	8
2.3.2 Economic Factors	9
2.3.3 Social Factors	9
2.3.4 Technological Factors	10
2.4 Benchmarking	11
2.4.1 Crowdfunding Platforms	11
2.4.2 Charity Evaluators	12
2.4.3 Considerations	14
3. Begood	15
3.1 Assumptions and Product Idea	15
3.2 Brand Identity	16
3.2.1 Vision	16
3.2.2 Mission	16
3.2.3 Brand Voice, Logo and Palette	17
3.3 Business Model	18
3.3.1 Value proposition	18
3.3.2 Customer Segments	18
3.3.3 Customer Relationships	19
3.3.4 Channels	19
3.3.5 Revenue Streams	19

3.3.6 Key Activities	20
3.3.7 Key Resources	20
3.3.8 Key Partners	21
3.3.9 Cost Structure	21
4. Reactive Web Application in Outsystems	22
4.1 Introduction	22
4.2 Outsystems Environment	22
4.3 User Roles and Journeys	23
4.4 Data Model	25
5. User Interface and Logic Flows	27
5.1 Improve Transparency and Awareness by Integrating Multiple Sources of...	27
5.1.1 Home Page and Information Pages	28
5.1.2 News in the Philanthropic Sector	28
5.1.3 Explore Page	30
5.1.4 Organization Profile	32
5.1.5 Campaign Details	38
6. Conclusions	49
6.1 Conclusions	49
6.2 Limitations	50
6.3 Future Developments	51
References	52
Glossary	57
Figures	58
Appendix A - Survey Report	73

1. Introduction

1.1 Motivation

As young adults, it is occasionally hard for us to figure out how to make a real impact in our society. Tragedies like the Coronavirus outbreak or the Ukrainian War led to a global shock never experienced in the last half a century. Even when it seemed like donating money was the easiest and most effective way to help, there was always the feeling that it was not the most impactful option. By exploring these contradictory feelings, we started to investigate potential reasons.

What do charities do with the funds they raise? How are small donations making a difference? What might reinforce individuals' confidence in charitable organizations?

Notwithstanding that charities recognize the potential of the Internet, the majority of them have been late adopters of new technologies compared to other types of businesses, primarily because nonprofit organizations might lack the time, budget, or technology-savvy resources to do so (Hackler and Saxton 2007, 8). This often leads to a lack of communication between potential donors and non-profit organizations, resulting in a network that doesn't exploit its full potential and "leaves significant impact on the table" (Mogus and Levihn-Coon, 2018).

In this Work Project, we propose a possible solution - in the form of a web application - that would be ideal to address the concerns listed above. Our main goal is to bring donors and charities closer. On one hand, we want donors to feel more engaged and aware of the impact of their contribution. On the other hand, we want to provide all the tools they need to make a well-informed choice, fostering organizations' transparency and trust.

1.2 Problem Statement

The global charity sector exhibits an imbalance between supply and demand (Pitt et al. 2021, 83). Even if there might be an endless demand for generosity in the world, it is challenging to have an overview of the big picture, meaning the offers available in the charity sector.

Charities play an essential role in society, particularly during times of crisis. Although they have a positive impact on millions of lives around the world, it is also true that most of them struggle to win over supporters' trust. One reason why people don't donate to charities has been amply established in the literature, despite the fact that no research study has been able to adequately address this question: a lack of trust and accountability (Strathmann 2018).

1.3 Goals

We can infer from the above mentioned problems that what is needed is a safe environment specifically designed for donors and organizations to interact.

The objective of this study is to develop a product that would serve as an intermediary between donors, looking to make the best decision, and nonprofits, looking to increase their donor base and draw attention to their work.

Ultimately, the most important goal is to increase awareness about urgent issues, break down social barriers, and contribute to a more solidaristic society.

1.4 Challenges

In order to achieve our goal and identify the means to do so, we had to face a number of challenges, including:

1. Which information can we provide to users, and thus potential donors, in order for them to better understand what is behind the work of a non-profit organization?
2. Is it possible to fairly compare the work of different charitable organizations?
3. How can we guide potential donors to periodically contribute to social causes?
4. Which features need to be introduced in our application to enhance the user experience?
5. What are the advantages, for an organization, to be part of this tool?

1.5 Research Methodology and Approach

The proposed study was developed as part of the “Open Theme” Work Project with the end goal of applying business and digital skills to solve a social challenge.

In the first phase, we researched and analyzed the main issues affecting the philanthropic sector, with a major focus on individual donors' perspectives. We carried out a primary analysis in the form of a survey and secondary research to dive deep into the industry and our product vision.

Once we identified the market gap and defined our product, we applied the Agile Development Methodology (Matharu et al., 2015) to iteratively test different features, collect feedback, and improve our product’s complexity. This procedure was divided into three key phases:

1. We designed the **Product Roadmap**, a detailed list of the requirements needed to achieve our goal.
1. We formulated our **Product backlog**, in the form of user stories, and then we set the priority of the features our product should have.

2. We iteratively **developed** and **tested** different features on our web application, using Outsystems Low-Code Technology (*Section 4.2*).

The selection of a web application is a natural consequence of our primary objective, which is to develop a tool that is easily accessible from any browser and device without the need for installation.

1.6 Work Project Structure

This study has the following structure. Through the QR code below (*Figure 1*), the reader can access the main result of our work, hence our Reactive Web Application. For the reader to fully experience this Minimum Viable Product, we recommend access from a desktop device and two separate journeys: (1) as a donor user, and (2) as a charity user. Two fully set login credentials are shown in *Figure 1*. However, it is also possible to create a new account.

In Chapter 2, we present the research and analysis carried out during these months. In this chapter we analyze the primary analysis conducted, the competitive landscape, and discuss the industry's external macroenvironment. In Chapter 3 we introduce the product concept (Begood) and the underlying business model. In Chapters 4 and 5, we describe in detail the Outsystems-built technical solution. Chapter 4 focuses on the technical translation of our product concept in the Outsystems environment. Chapter 5 describes Begood's User Interface and the procedures implemented. The final chapter is dedicated to the conclusions, future work, and limitations of our Work Project.

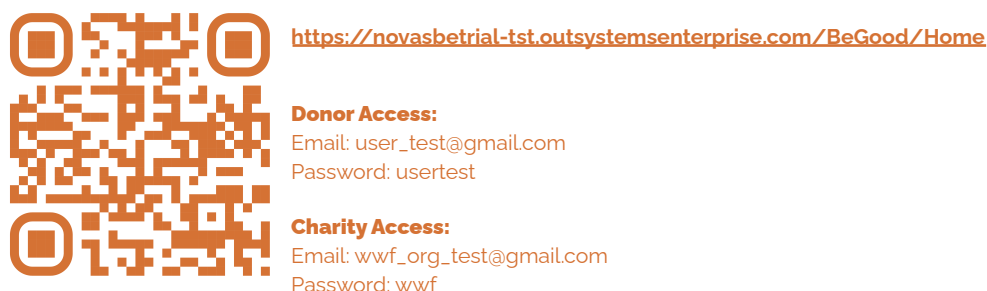


Figure 1: Begood QR code and login credentials

2. Research and Analysis

2.1 Introduction and Methodology

The primary objective of this chapter is to analyze the third sector macro-environment together with individuals' opinions and establish our product's position within the market. According to research conducted by Hatzijordanou, Terzidis, and Bohn, whenever a strategic business decision must be made, the analysis of internal and external factors becomes a crucial cornerstone because it reduces the amount of information asymmetry and the risks that result from making the wrong decisions (Prašnikar 2005 cited in Hatzijordanou, Bohn and Terzidis 2019, 418). In the first section of this chapter, we analyze the survey that we conducted at the outset of our research. In the second section, we use the PEST framework to evaluate the macroenvironmental factors that may have an impact on our product's industry (Aguilar 1967, Section 1). Finally, we examine the strengths and weaknesses of potential competitors.

2.2 Primary Data Analysis

At the outset of our project, we conducted a survey ([Appendix A](#)) to determine the primary barriers between individuals and charitable organizations. The objective of the survey was to get a general idea of how people feel about charitable giving and the nonprofit sector. The ultimate goal was to identify the factors that could motivate individuals to become more involved with charitable organizations.

2.2.1 Survey Design and Distribution

In the first part of the questionnaire, people are asked about their social and demographic backgrounds. This information is used to make sure that the sample is as diverse as possible. This section is followed by multiple-choice, rank-order, and matrix table questions. Depending on whether respondents have ever made a donation, the survey takes one of two distinct routes. Hence, we separately investigated the reasons why people never donate, as well as the frequency and emotions associated with giving. After these questions, the two paths converge again in a section dedicated to the various means by which donors' trust, and thus the frequency of donations, may be enhanced.

Both qualitative and quantitative questions were used. The study was mostly distributed via social networks, including WhatsApp, Instagram, and Facebook.

2.2.2 Survey Analysis

The survey has been completed by 189 people. 53% of respondents are between 18 and 25 years old, and the rest of the sample is distributed between 26 and more than 45 years old. Regarding gender identity, we can state that the sample is equally distributed. Students and full-time workers make up the majority of our respondents, followed by retirees. Three out of four people (75%) identified Italy as their country of origin, followed by Germany, India, France, and a variety of other nations.

2.2.3 Findings and Results

Three out of four individuals (75%) have donated to a social cause at least once in their lifetime. One of the primary reasons why people have never donated is a lack of budget

(44%), followed by a lack of trust in non-profit organizations (26%). Even among the group of donors, nearly half (43%) have doubts about the use of their contributions.

We discovered that consumers tend to place more trust in large charitable organizations, whereas internet-based crowdfunding activities tend to inspire the most skepticism.

According to the results of this survey, in order to donate more often, respondents would like to: (1) know how their money is spent (56%), (2) have an overview of specific data about the charity (30%), and (3) read reliable news and feedback about the charity's operations (23%).

Furthermore, 28% of our sample stated that having all these options on the same platform would increase their donation rate. These opinions are valid in every age group and for both donors and non-donors.

In accordance with our expectations, 84% of respondents desired to be aware of all donation opportunities prior to making a contribution, and 47% would donate to a trusted intermediary who would get in touch with the nonprofits currently funding critical causes..

According to our questionnaire, nonprofits should:

1. demonstrate how they spend the money raised (93%)
2. keep the donor updated on their campaigns (91%)
3. make the donor feel more involved (81%)
4. use other communications channels (76%)

Finally, we asked our sample to select three nonprofit organizations to which they would donate. Save The Children, WWF, Amnesty International, Emergency, Greenpeace, Medici Senza Frontiere, Unicef, and Action Aid were the most frequently mentioned organizations.

The findings of the analysis contributed to the development of the Minimum Viable Product (MVP) features described in the following chapters.

2.2.4 Survey Limitations

This survey is primarily limited by sociodemographic factors. The age distribution is not uniform, with Generation Z constituting the vast majority of individuals. Additionally, 75 percent of respondents hail from the same nation: Italy. Although the sample size is statistically significant, it is not completely representative of the population.

2.3 PEST Analysis

PEST Analysis is a management methodology that enables an organization to evaluate the external factors that have the greatest impact on its operations. Political, Economic, Social, and Technological factors, as described by the acronym, are central to this model (Aguilar 1967). Below, we will analyze each of these aspects.

2.3.1 Political Factors

Even if some nations have created charities-specific guidelines to address financial reporting, there is no global agreement on the subject (Breen et al. 2018).

In terms of common standards for charities, the majority of US nonprofits are registered under the IRS 501(c)3 list and must file Form 990 for tax exemptions. As a result, US charity groups can partially benefit from a shared regulatory framework, thus a common identity.

At the European level, common standards for charitable organizations remain absent. Recent statements from the European Founding Association support the proposal to establish a supranational legal form for the nonprofit sector in Europe (EFA 2022). This initiative has

been undertaken in response to the Lagodinsky Report, which emphasized the need for charities to rely on a uniform legal basis, minimum standards, and legal form across all EU member states.

2.3.2 Economic Factors

An important economic factor affecting philanthropy is tax deductibility. According to the Internal Revenue Service (IRS), US taxpayers receive a tax deduction for contributions to charitable organizations (IRS 2022).

Numerous European nations also offer tax incentives to promote charitable donations. In this case, donors can typically deduct or exempt contributions from their personal taxable income. Tax benefits can have a big impact on charitable giving and the nation's overall philanthropic culture. Furthermore, it encourages citizens to give by sending a loud and clear message that the government values charities and nonprofit organizations (EFA 2018).

From an economic point of view, the relevance of charitable organizations and volunteer work is comparable to that of the public and private sectors. Indeed, charities provide essential services that positively impact the lives of individuals, such as the construction of hospitals and schools and the promotion of social causes. Charities collaborate with governments in many aspects, including the fight against poverty, the attempt to reduce the gap between rich and poor people and combating social diseases such as drug abuse.

2.3.3 Social Factors

According to the Global Philanthropy Environment analysis, people in Canada, the United States, and Northern Europe have a higher level of trust and awareness of charities' operations than those in Central Europe (IUPUI 2022). Indeed, according to the Charity Aid

Foundation Global Index Giving Report 2022, Americans are the second most generous nation in the world, while the majority of European nations rank at the bottom. This may be due to the fact that the European third sector needs a distinct identity. The numerous self-organized, citizen-based initiatives that comprise the third sector are not sufficiently conscious of their shared characteristics, values, and what economists refer to as a common "objective function" or underlying goals (European Commission CORDIS 2017).

One of the main issues is that nonprofit organizations are currently struggling to persuade society that they effectively manage the donations they receive and are dedicated to achieving the objectives for which they were established. On the other hand, research on donors and charities showed that donors would like to give more selectively to causes and organizations that demonstrate they are maximizing impact. (Saeri et al. 2022, 1)

2.3.4 Technological Factors

In recent years, the philanthropic landscape has expanded to include a variety of new online giving options. Crowdfunding and online fundraising through social media demonstrate donors' willingness to give online (Osili et al. 2021, 4).

Research from Salesforce in 2021 highlights that 75% of nonprofits across the globe want to build great donor experiences (EFA 2021). Data drives engagement, and there is no exception for the philanthropic sector. Network effects in giving are now fundamental.

Despite this, charities and many smaller foundations are typically far behind the business sector in terms of technology adoption. The tremendous fragmentation of the charity sector, which is made up of both huge international charities and a very long tail of tiny businesses, makes this situation worse. Indeed small charities most of the time do not have enough budget of workforce available for digital technologies (Charities Aid Foundation, 2022).

Precisely, the status of nonprofits in the philanthropy sector does not prioritize improved data management or investment in digital technologies.

2.4 Benchmarking

Other business models, represented primarily by US charity evaluators and online crowdfunding platforms, give people the opportunity to evaluate charities or projects and have an innovative and easy-to-use search engine. Due to their similarity with our product idea, these businesses and their platforms can be considered our main competitors and will be analyzed in the sections below. Furthermore, a lot of personal charities' websites can be considered competitors since, for obvious reasons, they have more data about themselves compared to third-party channels. In particular, we are referring to associations of nonprofit organizations with a common goal. Another example of a possible substitute is provided by private corporations and for-profit platforms like Paypal, which introduced the Paypal Giving Fund. Its "Give at Checkout" feature aims to facilitate charitable organizations' fundraising efforts by making it easy for customers to make a small donation during the checkout process (Paypal Editorial Staff, 2020).

2.4.1 Crowdfunding Platforms

Momentum around crowdfunding is increasing, offering individuals another way to express their generosity. For instance, successful crowdfunding platforms include GoFundMe, DonorsChoose, Kickstarter, Fundly, and many others.

GoFundMe allows campaign entities (individuals or charities) to ask for funds from crowdfunding supporters. The company operates nationwide and worldwide, with projects ranging in areas from disaster relief to travel or creative projects. GoFundMe campaigns are strictly donation-based. Furthermore, the platform is particularly targeted to individuals and

local small businesses, not big charities. Revenue streams come from GoFundMe's Charity Service which charges platform fees to campaign hosts, and transaction fees to crowdfunding supporters (2.9% + 30 cents) (GoFundMe, 2022).

Similar to GoFundMe, Kickstarter is a for profit crowdfunding marketplace that focuses on creative projects like art, music, film, etc.

Fundly is a fundraising platform for all individuals, non-profits, schools, political organizations, and corporations that want to raise money for a cause. Fees are determined by the scale of the fundraiser and the number of contributions.

DonorsChoose is a nonprofit crowdfunding website mainly focused on education and provides funding to teachers in US public schools only. Teachers post their project needs and requests, and anyone can donate any amount toward achieving the project's goal. 95% of the donation is allocated to the designated classroom project, keeping 1% for administrative costs and 4% for fundraising (Donors Choose 2020).

2.4.2 Charity Evaluators

As a result of donor mistrust, rating and comparing organizations for charities has emerged over time, particularly in the United States.

These nonprofit organizations which provide other nonprofits with information, evaluations, and ratings are commonly known as "Charity Watchdogs." Data from over 16,000 nonprofits highlights that ratings from charity evaluators bring in more donations than nonprofits that are not on these platforms (Yörük 2016).

Charity evaluators' absence in Europe is mainly due to the legal environment and the lack of a common identity of the third sector. In the US, evaluators and charities evaluated are all

registered in the 501(c)(3) cluster of IRS and have filled the Form 990 which is uniform and consistent among charities.

A recent discussion with the president and CEO of Charity Navigator highlighted the need for European countries to have this type of service. Indeed, small groups, at each member state level, are already thinking about feasible solutions. This, together with the PEST analysis, leads us to confirm that the next developments in the European legal framework will be a crucial point for all nonprofit sector's stakeholders. In the section that follows, we examine some of the major players in the so-called "Charity Watchdog" industry.

Charity Navigator assigns an organization a class (ranging from 0 to 4 stars) based on the weighted sum of its key domain scores (0-100). A company can provide information about four sections: (1) impact and outcomes, (2) accountability and finances, (3) leadership and adaptability, and (4) community and culture. Charity Navigator has recently acquired ImpactMatters to evaluate the impact metrics of small charities, and collaborates with GuideStar by Candid.org, an additional charity evaluator, to determine the Culture and Community score (Charity Navigators, 2022).

Charity Watch assigns each charity a letter grade ranging from A+ to F based on two criteria: program percentage and cost per \$100 raised. The rigor of the Charity Watch rating is contingent upon the fact that the nonprofit organization conducts a manual internal analysis of financial statements, in particular of non-cash donations and reserves (Charity Watch, 2022).

Candid.org is the result of the merger of GuideStar and Foundation Center. Before this merger, GuideStar encouraged nonprofits to voluntarily disclose more about themselves for various levels of "seals of transparency", thus providing more visibility to more transparent organizations. Foundation Center, on the other hand, provided the foundations' network with

on-site access to its tools, and proper training about how best a local nonprofit might use them. This enabled the organization to provide a variety of resources to nonprofits and foundations alike. Once merged, Candid assigns Bronze, Silver, Gold, and Platinum "seals of transparency" to organizations based on the quantity of information they provide (Candid 2022).

Lastly, BBB Give.org employs a binary rating system (accredited or not) based on 20 standards comprising open-ended questions from various fields (BBB 2022).

2.4.3 Considerations

Crowdfunding platforms, by allowing individuals to ask for funds and being characterized by a for-profit business model, can be less trustworthy and ethically far from the scope of a nonprofit organization.

On the side of charity evaluators, ratings may place a greater emphasis on financial and accountability metrics than on transparency and impact results. What these evaluators lack are diverse data sources, such as the perspectives of beneficiaries and specialists (Gunther 2015). For instance, if a company has a disproportionately high proportion of program expenses (budget used to provide actual assistance), this may be indicative of either extreme inefficiency or corruption and unethical behavior. To highlight what is actually an organization's impact, a variety of data and even fewer aggregated ratings might be preferable. This could lead to citizens all making biased evaluations, which is the opposite effect of charity watchdogs' main goal.

3. Begood

3.1 Assumptions and Product Idea

Millennials and Gen-Z exhibit incredible generosity and an admirable desire to make a difference. In order to take advantage of it, nonprofit organizations must embrace a new breed of highly involved, impact-driven donors that prioritize meaningful connections and quantifiable results in their contributions (Forbes 2021). People are motivated to give more to organizations that closely align with their values and who make them aware of specific causes' needs. Furthermore, individual giving has switched to groups that can show impact and effectiveness, are proactive in communicating with the public, and customize donor involvement (Bilgin and Kethüda 2022, 4).

In an attempt to understand what drives donors' decisions when choosing an organization or campaign, we analyzed several factors. Among all the measures available, the most important element in the philanthropic sector remains impact. However, other relevant factors may include accountability details to transparency, program expenses, fundraising efficiency, and so on. People also use various sources of information before donating. Social media networks, newspapers, and personal social environments all influence contributors' perceptions of the organization.

After analyzing the market and considering the responses to our survey, we realized that what is actually missing in our society is a stronger relationship between individuals and organizations. In order to provide an efficient bridge between the donors and all kinds of charities, we propose a new channel, a non-profit web service that offers European charitable donors the means to decide in a conscious and informed way where to donate their savings or

their time. Through this channel, donors can have a complete overview of the charities' commitment to social causes, be able to compare different programs, and consciously choose where and how to contribute. The business model is distinct from all those examined in the earlier sections.

3.2 Brand Identity

Once we understood the community's needs, we were able to define the product's primary attributes and strategy. In order to evoke the purpose of the entire project, we named our web application "Begood".

3.2.1 Vision

Begood's vision is to improve our society by increasing awareness about urgent issues, breaking down social barriers, and ultimately contributing to a more solidaristic society.

Through our web application, we want to make the donation process easier. Giving is crucial for the development of the environment around us. We foresee a society made out of people who do not see the world's issues as something remote, but rather as a concerning problem for us all. Helping others means improving everyone's life and contributing to a more caring, equitable, and inclusive society.

3.2.2 Mission

Begood's mission is to better connect individuals to non-profit organizations and vice-versa. People expect high moral standards, transparency, and regular updates on how their money is being spent.

This is exactly what we offer to our community. Through updated news and quantifiable metrics, we provide potential donors with the opportunity to access relevant information about nonprofit organizations.

In addition, by providing a free, accessible service to potential donors, we are assisting non-profit organizations in expanding their user base, highlighting their activities, and gaining more trust and support.

3.2.3 Brand Voice, Logo and Palette

The Begood logo (*Figure 2, left side*) depicts two hands joining to form a heart. Through this representation, we wished to convey a message of love, acceptance, and closeness to anyone in need.

The use of a soft orange color for our brand aims to convey a sense of friendliness, vivacity, vitality and to evoke a sense of warmth. Donating demonstrates generosity and concern for others, which is precisely the message we want to transmit. We aim to create a community that is accessible to everyone, where users can feel comfortable and welcome in a safe environment. As a result, our tone of voice will mostly consist of straightforward and friendly language, with the goal of building trust and openness.

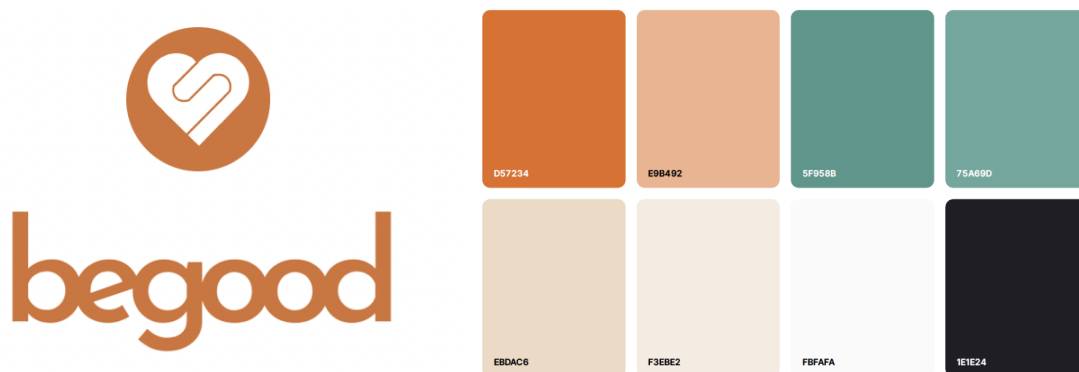


Figure 2: Begood logo and palette

3.3 Business Model

Begood's business model will be analyzed following the Business Model Canvas method. This assists us in describing the many operational components of our business, illustrating what our organization does, for whom, and with what resources. Each component will be analyzed in a separate subchapter.

3.3.1 Value proposition

We consolidate all of the user's research efforts across various sources and online platforms by offering all the resources they require on a single tool, allowing them to compare charitable projects and make informed decisions.

3.3.2 Customer Segments

Our targeted audience is separated into two distinct groups. On the one hand, there are contributors or potential ones, while on the other hand there are nonprofit organizations.

Potential donors represent the main customer for Begood. Frequently, the most important factor for them is making a tangible impact and being proud of every euro spent.

Small and local businesses will constitute the customer segment with the highest visibility requirements. They are primarily non-profit organizations that are willing to use technology but are limited by time and money. Without incurring any fees, their primary objective is to use all of their funds to pursue their mission and make a tangible contribution to each of the causes they support.

Large charities and organizations are also included in our target customer segments. Typically, they have a well-established brand identity, as well as an active social media

presence and innovative websites. Even if all the useful information is available and well-explained on their website and all the other channels, they are aware that many potential new donors will follow the network around them rather than search and check their website.

3.3.3 Customer Relationships

The essential value at the basis of the relationship with our customers is trust. All the information shown in Begood comes from reliable sources, including NPOs' own channels and annual reports. This establishes a first line of transparency.

Indeed, due to the interdependence of the platform with detailed organization data, each nonprofit organization will have access to its account and profile. In this way, it will be able to create content and update personal information.

Our primary engagement with donors is to provide them with free access to the platform and, through account creation, a personalized customer journey.

3.3.4 Channels

Currently, our primary channel is Begood's web application, through which all of our key stakeholders can interact and generate targeted content. To attract users, additional partner channels, such as social media and marketing strategies, will be utilized. The application will be freely accessible on all devices via browser.

3.3.5 Revenue Streams

Begood is a nonprofit organization, where donations constitute a fundamental part of revenue streams. Individuals will be able to donate directly to Begood or devolve 2% of each contribution during the donation process in order to ensure that Begood has sufficient

operating funds. Our service relies heavily on the support of corporations and individuals, who recognize we provide a much-needed service to the European Philanthropy sector. Begood does not follow a membership model, thus we do not accept funding from the charities that are featured on our platform, ensuring that our stance remains objective and that our role as independent informants remains impartial. As we expand our service to all European citizens, we will apply for European Union grants.

A portion of our funding costs will be administrative and operational, primarily pertaining to the optimization of our web application. However, we commit to minimize these costs and equally distribute any surplus revenue at the end of each period, based on the preferences of our users, if any exist.

3.3.6 Key Activities

Our primary focus is to improve and maintain our web application. This includes enhancing the user experience, application design, and data management continuously.

Significant effort will be devoted to generating demand and increasing the platform's traffic. Given that donations are managed via our platform, transaction management will be one of our responsibilities.

3.3.7 Key Resources

Our web application relies heavily on all kinds of up-to-date data. Our concept is made possible by articles from major newspapers, social media posts from nonprofit organizations, and customers' specific interests. The network of charities creating profiles and uploading content, in addition to donors interacting with the web application, will be essential to the platform's operation.

3.3.8 Key Partners

We will initially rely on internal resources and mentoring programs from other similar businesses. We will receive fundamental mentoring from Charity Navigator, a charity evaluator in the United States with whom we are already in contact. Charities and nonprofit foundations, in addition to being customers, will be essential partners in the establishment of the initial network.

3.3.9 Cost Structure

Here below we present some of the forecasted key costs for our organization:

- Research, improvement and support: the majority of our expenses will go to research on how to improve the sense of community and solidarity, but also to support smaller NPOs meeting current needs and transparency standards.
- General, operational and administrative: we're dedicated to running a lean organization, which is why we keep administration costs at the minimum. Based on competitors' strategy and our main costs, we forecast a maximum of 5% cost for administrative and operational expenses.
- Fundraising: An important percentage of the donations will be redirected to fundraising projects to reach our mission or will be donated to specific organizations/campaigns based on our community's will.

4. Reactive Web Application in Outsystems

4.1 Introduction

The research and analysis performed during these months informed the development of the features included in the minimum viable product (MVP). The solution created using the Outsystems Agile Platform is an early-stage product with the bare minimum functionality necessary for readers to validate the concept and experience the product.

This chapter focuses primarily on the technical solution that was developed. In the first section of this chapter (*Section 4.2*), an overview of the Outsystems environment is provided. In the second section, we describe how we translated Begood concepts into application modules; here, we summarize the actions that different end-user classes can take to interact with our web application. In the third section, we describe our web application's database following the entity-relationship data model (Chen 1976, 10-15).

4.2 Outsystems Environment

Outsystems is a low-code development environment that supports the entire application lifecycle and makes it possible to develop reactive web or mobile applications. Begood is a Reactive web application, whose main characteristic is a responsive interface that runs in the browser and can be accessed through all devices. Outsystems integrates different systems and extensions for the development of product architecture.

Outsystems provides a UI framework and a predefined theme for the development of our interface from a front-end perspective. Starting from OutSystems UI, we created a new style using the CSS editor and HTML extensibility that adheres to the Begood brand identity.

Furthermore, OutSystems allows for the integration of back-end extensibility. This enabled us to integrate SQL code or consume REST APIs with minimal hand-coding.

Service Studio is the environment in which all application components, such as the data model, user interface, application logic, business process flows, and integrations, are created. Powered by artificial intelligence, a comprehensive reference-checking, and self-healing engine simplifies the process of tracking changes.

4.3 User Roles and Journeys

Based on the user's profile, Begood web application offers different customer journeys. By creating an account ([Figure 3](#) and [Figure 4](#)) and logging in, the role of the user changes from Anonymous to Registered. Customizable Begood features are restricted to registered users. In addition, depending on whether the user is an individual or an organization, there are two registration processes and different targeted features.

There are four different classes of users: (1) Anonymous, (2) Registered, (3) Organization Manager, and (4) Platform Manager. Depending on the role, the user journey is different.

An Anonymous user (i.e., not registered) can do the following:

- Discover more about Begood's goal and business model through the Home Page, and other pages such as the About Us, and the Frequently Asked Questions ([Section 5.1.1](#));
- See details regarding the community activities and statistics such as the number of registered donors, organizations and programs available on the web application;
- Explore all the available Organizations and Campaigns and dive deep on detailed information such as the total amount donated through our platform or the number of donors for each organization and campaign. More details in [Section 5.1.3](#);

- Explore News related to the philanthropic sector on the NewsPage ([Section 5.1.2](#)).

Once users are logged in (i.e., Registered), additional available features are:

- The opportunity to contribute to a specific program, organization, or Begood itself through the web application. If preferred, the user can also donate through the organization's official website. The registered user can access the Donate Page ([Section 5.2.3](#)) from (1) Organization Profile, (2) Campaign Page, (3) Home, and (4) Menu Header;
- Additional interaction with Begood through email notifications as soon as users (1) sign up, (2) reset the password, (3) make donations through Begood ([Section 5.2.4](#));
- Possibility to follow an organization or like a campaign. This allows the organization to gain credibility and the potential donor to keep his or her preferred causes on the personal profile;
- Access to the Profile Page and (1) edit personal information, (2) see the list of donations made with a related link to download the Proof of Payment ([Section 5.2.1](#));
- Access to the For You Page ([Section 5.2.2](#)) to (1) edit interests, (2) find the list of favorite organizations and campaigns, and (3) examine the recommended programs based on the user's interests and other users' activities.

In order to activate their profiles, Begood-registered non-profit organizations must receive approval via email from the Platform Managers. Once access is granted, the manager of the organization can:

- Edit the organization's information;
- Add, delete or edit campaigns and highlight urgent issues;
- Include data on transparency, such as accountability measures, certifications, and SDGs icons that best fit the organization's mission.

Lastly, the platform manager can also manage support requests, approve organization registrations, and manage data from their profile page ([Figure 5](#)).

4.4 Data Model

Begood's data model is based on 20 interrelated entities. An entity in a Database Management System is an object with attributes describing the entity and identifiers assigned to each instance. The principal entities in Begood's database are *User*, *UserDetails*, *Organization*, *Campaigns*, and *Donations* ([Figure 6](#)). Entities are associated with each other through identifiers. The number of associations defines the degree of the relationship. In order for the reader to understand the entity relationships, we created three main diagrams.

The first Entity Relationship Diagram ([Figure 7](#)) includes the attributes related to organizations and campaigns. Each organization is associated with a user through a one-to-one relationship. The User will have access to the Organization's Profile and will be able to edit it. The User entity is strictly linked to the *UserDetails* entity, which stores additional demographic attributes. Campaign attributes are linked to one organization (many-to-one relationship) through the Organization Identifier. Campaigns are assigned to a particular category and subcategory. On the other hand, categories and subcategory instances also identify the nonprofits' areas of action and the user interests. *AccountabilityData*, *Certifications*, and *SDGOrganization* store other attributes linked to the nonprofit through a one-to-one relationship.

The *User* Entity is associated with the *UserInterests* entity, which stores the categories and subcategories of interest ([Figure 8](#)). *LikeCampaign* and *FollowOrg* are linked to the *User* entity through a many-to-one relationship. These entities store campaign or organization preferences.

Lastly, the Donations Entity Diagram ([Figure 9](#)) shows how each donation is associated with a user, his or her payment details (*UserPaymentsDetail*) entity, and the beneficiaries of the donation (*Campaigns* or *Organization*).

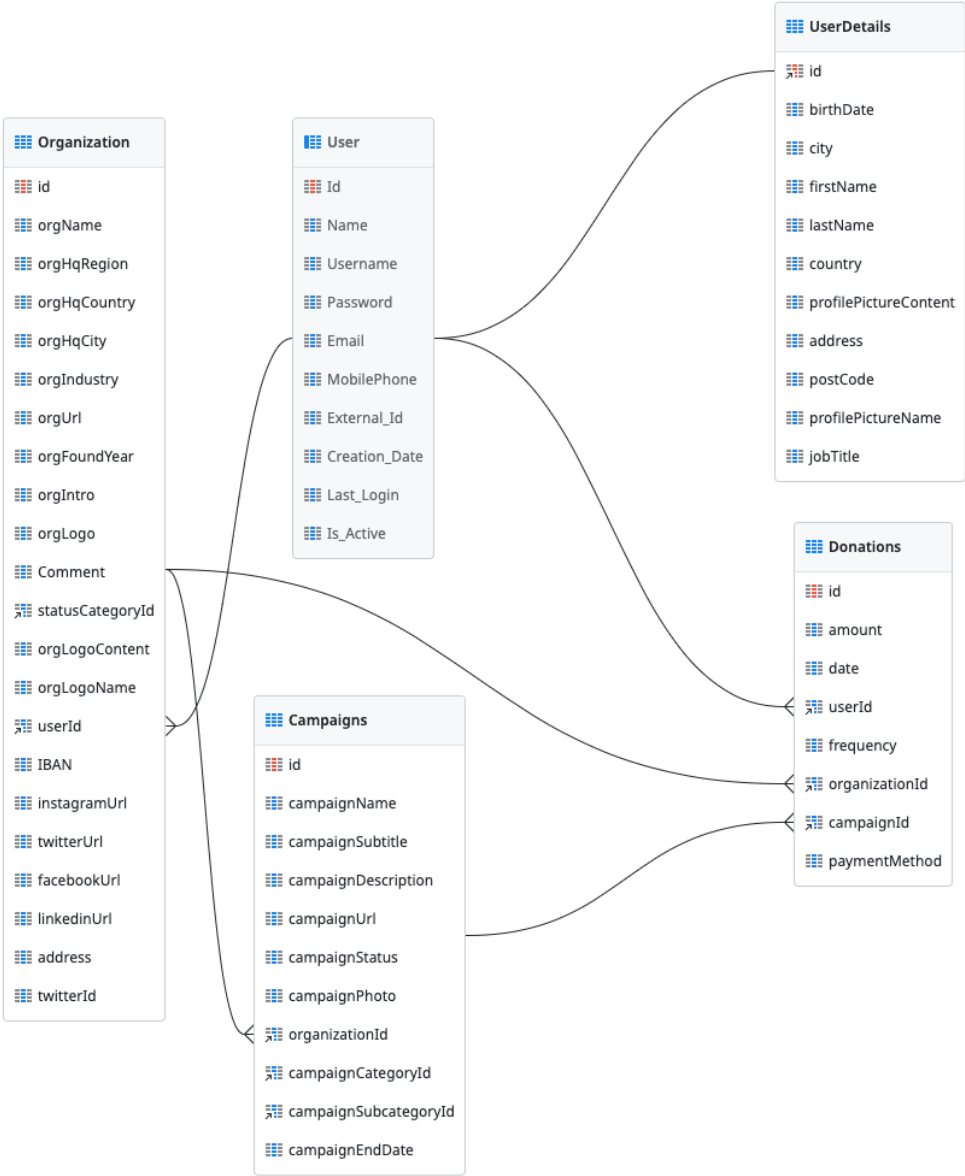


Figure 6: Main Begood Entity-Relationship Diagram

5. User Interface and Logic Flows

This chapter focuses on the User Interface and the detailed description of some technical processes implemented within our Minimum Viable Product.

5.1 Improve Transparency and Awareness by Integrating Multiple Sources of Information

Our long-term goal is for Begood to become the web application where prospective donors gather information about nonprofit organizations. To accomplish this objective, the platform must provide content and, in particular, pertinent data.

Compared to other sources of information - newspapers, charities' websites, and social media - our web application consolidates all this data and simplifies the user's ability to search across multiple channels. In an effort to identify the means and the most relevant features to implement in our web application, we analyzed a small number of frequently asked questions.

1. What is the final goal the organization aims to accomplish?
2. What are the nonprofit's strategies and capabilities for achieving this objective?
Specifically, how are the funds used?
3. What are the benefits of becoming a donor, and what impact does each contribution have?

Donor engagement happens as soon as the organization focuses on what matters: impact, transparency, and results. On the landing pages outlined below, we've implemented a few tools that enable potential donors to gain insight and make conscious decisions.

5.1.1 Home Page and Information Pages

[Figure 10](#) shows Begood's Homepage, the first encounter all users will have with the platform. Users can log in or create a new account depending on whether they are potential donors or organizations. This page contains multiple call-to-action buttons that allow the user to interact with the application. Following this section is a brief explanation of how the application functions. From the user icon in the menu header, it is possible to log in and log out, as well as access My Profile and other static pages such as About Us ([Figure 11](#)) and FAQs ([Figure 12](#), Frequently Asked Questions).

5.1.2 News in the Philanthropic Sector

Newspaper releases can contribute significantly to the success of nonprofit organizations (Prašnikar 2005 cited in Hatzijordanou, Bohn and Terzidis 2019, 418). Furthermore, they can help increase awareness about specific social causes and keep updated on recent events. To achieve this objective, we dedicate this landing page to the philanthropic sector's news. In order for the user to experience the feature, we integrated two newspaper feeds, one from the humanitarian aid section of The Guardian (The Guardian, 2022) and one from the United Nations website (United Nations 2022).

RSS Feed in Outsystems

RSS feed stands for Really Simple Syndication, and allows users to follow up-to-date content across many websites from a central location, which in this case is the Begood News landing page. RSS feed is technically a set of instructions located on a website's computer server, which is hosted upon request of a reader on a client server.

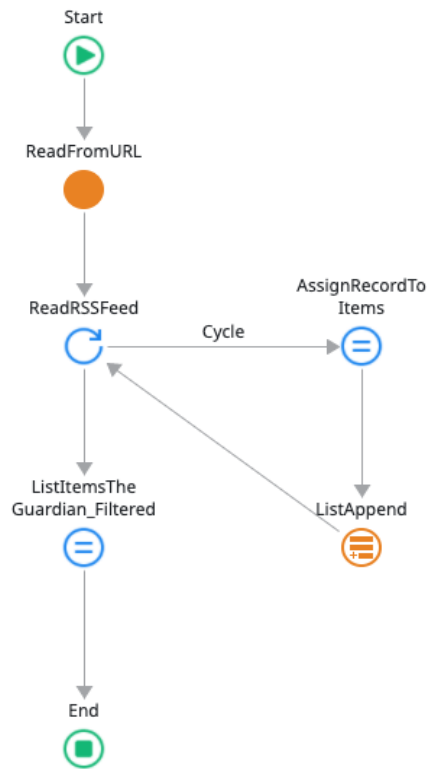


Figure 13: Visualization of the Client Action Flow on Outsystems to integrate the RSS feed from URL

In *Figure 13* we can see the implementation of the process flow integrated in Outsystems. The Server Action takes the RSS Feed URL as input and iteratively assigns each record's data to a list, displayed on the screen as a sectioned card item (*Figure 14*). Through the search logic, the user has the opportunity to filter this list of the news based on their query. The most recent news is displayed first. The user can view the title, brief description, author, and publication date of each news article via the web application. In addition, clicking on the news opens a new page with the full article from the primary source.

The subsequent steps consist of analyzing and integrating a vast quantity of newspaper sources, as well as providing tips for the donors to help them understand the different ways in which they can contribute. Furthermore, we intend to enhance the user experience through

more sophisticated search logic and the ability to quickly identify the most pressing topics. At this stage of the project we did not use an aggregator to monitor multiple feeds.

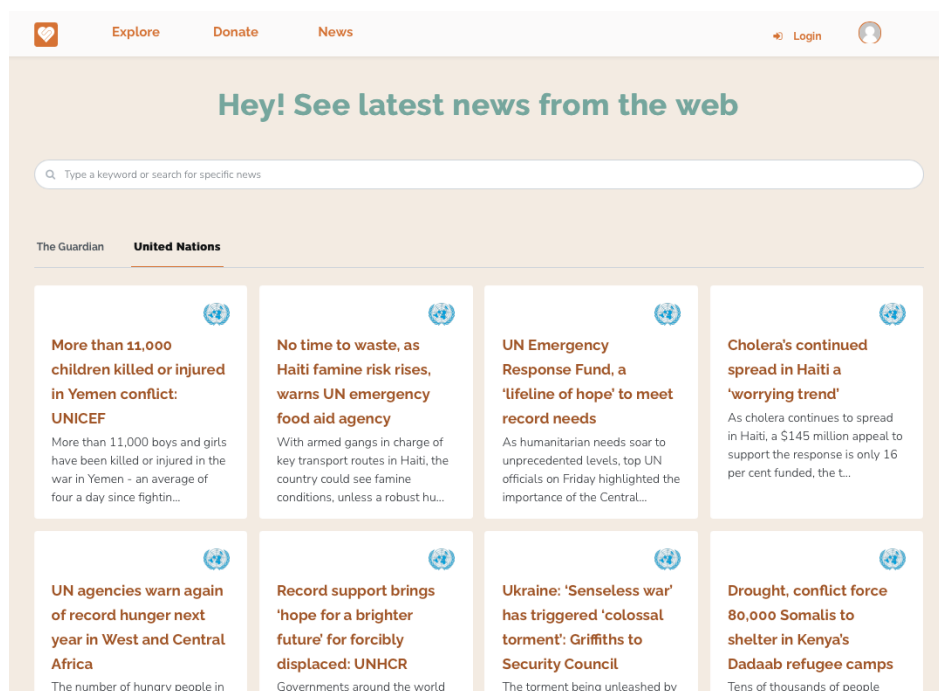


Figure 14: Begood News Page accessed through browser

5.1.3 Explore Page

Explore is essential for the user to discover the content listed on Begood and the community of charities who have subscribed to our app. This screen's primary objective (*Figure 15*) is to facilitate the user's research and identification of their preferred campaign or organization.

In order for the user to experience this function, we are currently displaying five well-known charities, from which we have selected a few active campaigns. These organizations were chosen based on the survey responses we received.

The Explore page contains more visual than descriptive elements. This facilitates information processing for the user. The logos of charities are displayed in a top section, while campaigns can be viewed in either list or toggle format below. From each campaign's card, the user can

easily view the action area, the organization's name, the campaign's title, a brief description, and the number of Begood supporters.

To learn more about a particular campaign or organization, the user can navigate to either the Organization Profile page or the Campaign Details page. In addition, the search function enables the user to look for a category or specific words within the names of charities or programs.

Future work for this landing page will include an advanced search function that enables users to efficiently search for charities despite the vast amount of available information. For instance, the donor should be able to prioritize campaigns with the greatest economic need or those that are closest to achieving their financial and strategic objectives.

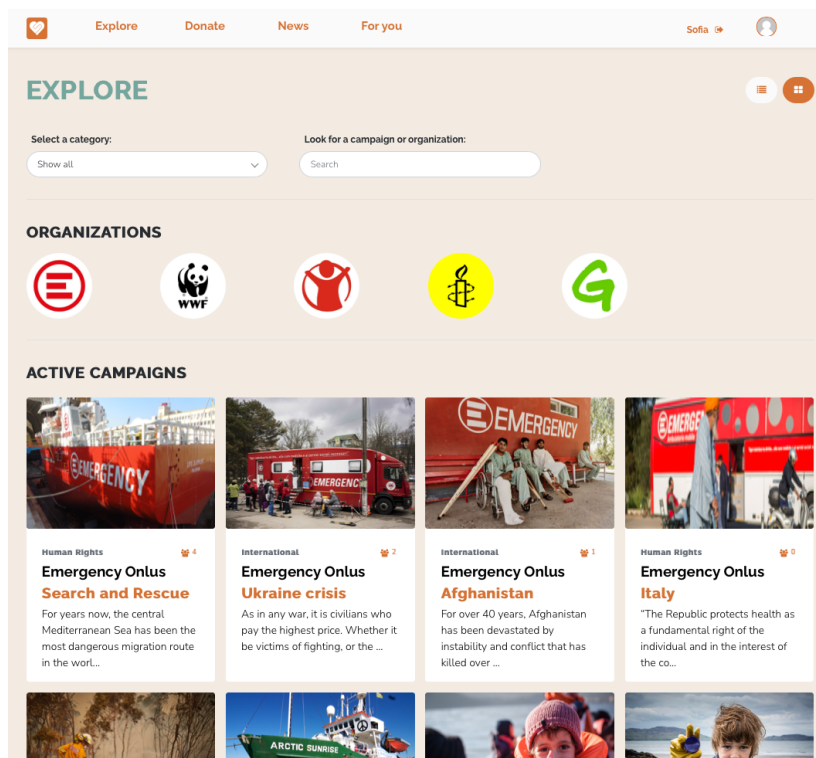


Figure 15: Explore page accessed through browser with the list of campaigns in toggle view

5.1.4 Organization Profile

On this landing page, we want to facilitate a deeper connection between the user and the organization. Whether the nonprofits have reached a significant milestone, have an upcoming event, or have pertinent information to share, the Organization Profile page collects and displays all of these updates. Nowadays, nonprofits use social media, as well as their annual reports or personal websites to share relevant data. The advantage of having a personal profile on Begood is that the nonprofit has a customized channel, specifically designed for nonprofit businesses, to show off its achievements in the social sector and compare its goals with those of other similar charities. The long-term vision of this page is to allow beneficiaries, experts and other stakeholders, to share opinions and experiences related to the charity. This improves engagement and provides diverse data sources, with various information, ultimately enhancing trust and transparency between donors and charities.

The organization is responsible for uploading and updating personal information, such as data retrievable from the Balance Sheet with supporting documents, in accordance with the platform policies. Begood's primary responsibility involves vetting third-party sources and documents to ensure that the user is presented with accurate and trustworthy information.

The Organization Profile page (*Figure 16*) is structured in two main sections. The upper part displays basic information like the (1) logo, (2) name, (3) foundation year, (4) goals and mission, (5) areas of action, and (6) public metrics like the number of supporters on Begood, the amount collected, and the followers' numbers on the web application. Public metrics have the objective of highlighting the activity of Begood's community. Furthermore, the user can directly donate to the organization by clicking on the call to action below the logo. The bottom part has a navigation bar and is further split into three main sections, described in

detail below. Finally, the main contacts are displayed below the navigation bar, with links to official websites or social media channels.

When accessing the web application as an Organization Profile Manager, the user interface is slightly modified to allow editing and updating of data.

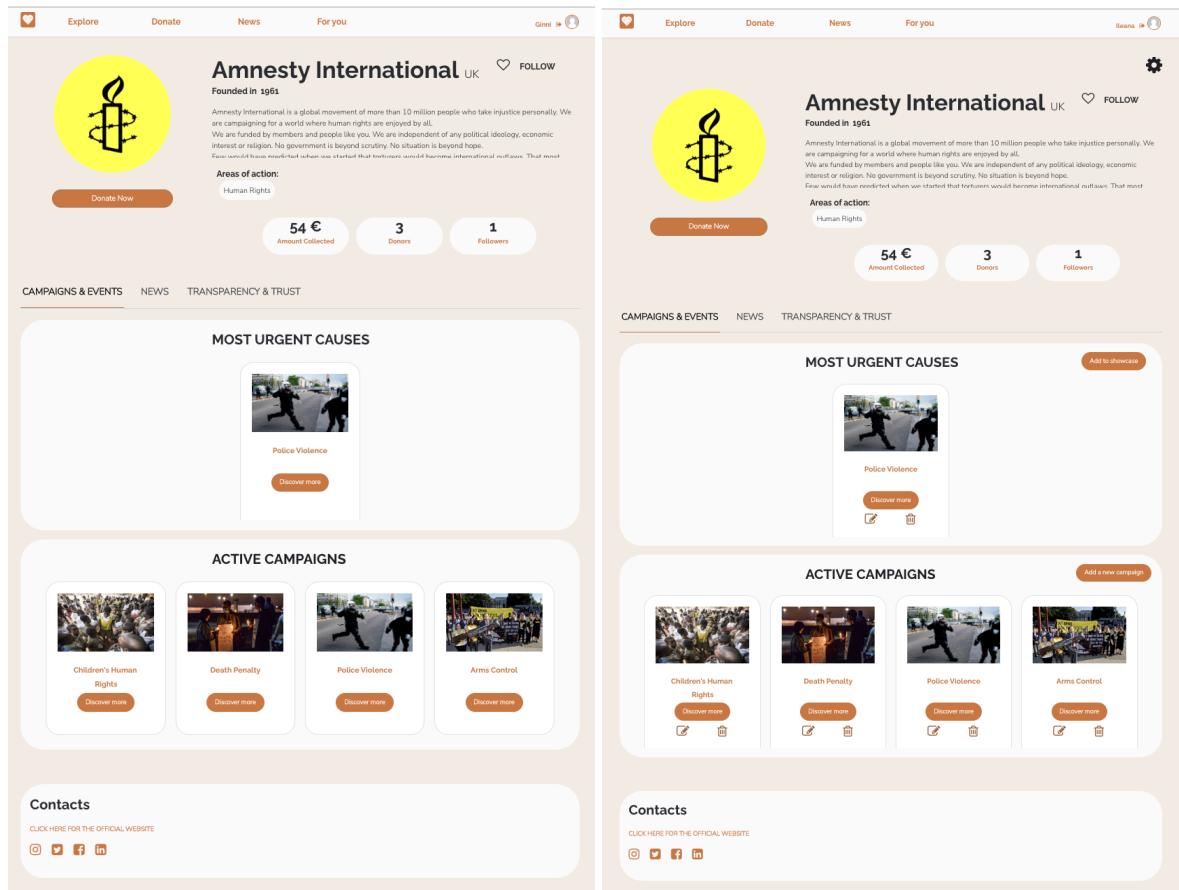


Figure 16: Visualization of the Organization Page from accessing as a user on the left. Visualization of the same page accessing as an organization on the right.

Campaigns and Events

This section displays the active programs of the organizations. Each organization has the opportunity to highlight issues that need more urgent support. From this section, the user can identify a campaign and, on clicking, land on the CampaignDetails page. On the other side, organization managers can create and add new campaigns. The next steps for this page would

be to include volunteerism, local events, or temporary campaigns with targeted budget goals. Donors will be able to identify nearby opportunities with the help of a detailed map displaying the locations of active programs.

Twitter and Google News

This section displays organization-specific News from multiple sources (*Figure 17*). The solution we implemented to display this data is a REST API from two distinct sources: the Google News website and the organization's Twitter account. Google News integration allows our users to examine the latest press releases from third-party sources, specific for the organization. On the other hand, Twitter integration allows the organization to share its achievements and milestones with the user, without any double uploading effort. Twitter was selected from the available social media because it is considered as one of the most popular news-sharing channels for certified entities.

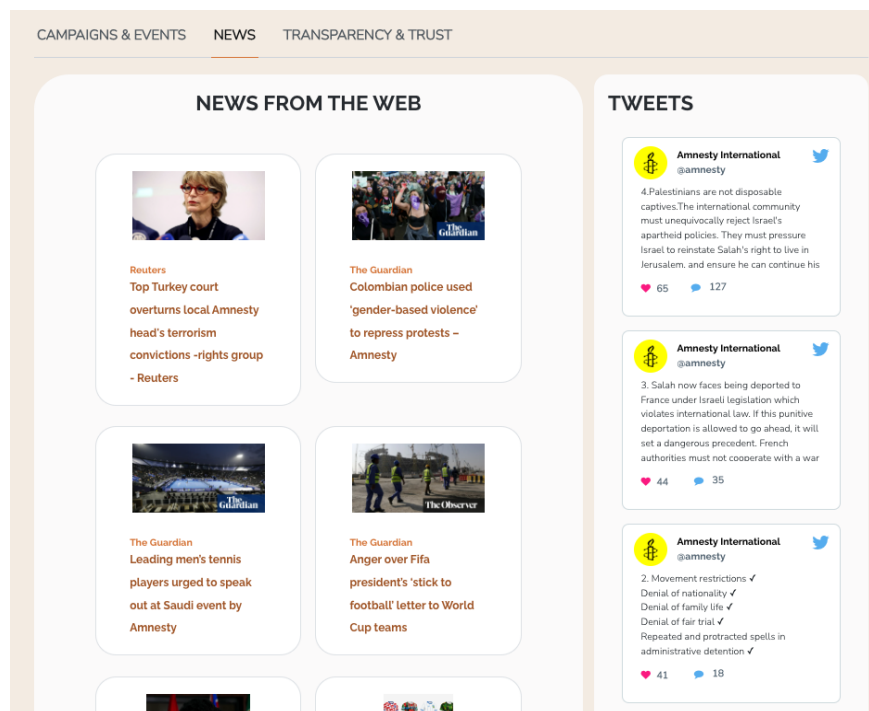


Figure 17: Visualization of the News section on the Organization Profile page

API calls in Outsystems

The Application Programming Interface (API) is a collection of protocols and rules that define how applications softwares can be integrated. A RESTful API is an API integration that adheres to the design constraints of the REST, or representational state transfer architectural style.

Regarding Twitter API, the query asks for the latest tweets data from the Organization official profile. As for Google News, the query asks for all the news in English, mentioning the organization in the latest week, and where the name of the organization appears either in the title or in the description. An example of the process ([Figure 18](#)) followed to integrate this in outsystems follows few consecutive phases:

1. Study the documentation of the API and get the right authorization to host data on our web application
2. Consume the REST API on Outsystem and test the response
3. Optimize the query and display the information on the web application in a readable format.

Although Twitter provides a system to directly embed the timeline on the website, the solution implemented resulted in faster response and no restrictions for multiple calls.

Transparency and Trust

As stated in [Section 1.5](#), this study focuses primarily on the perspectives of individual donors. One of the most important questions for donors, according to our analysis and research, is how charities spend their budget. Given that no primary research on the perspective of charities has been conducted as part of this Work Project, the following solution is based solely on secondary research on public documents, media reports, and academics' opinions on

the most important measures for a trustworthy charity. This section of the Organization Profile, shown in *Figure 19*, is based on data collected directly from the organization's website regarding its accountability and transparency. In addition, for the user to be able to compare information across organizations, the displayed metrics must be standard across all registered charities. The link to the related report is available below the chart.

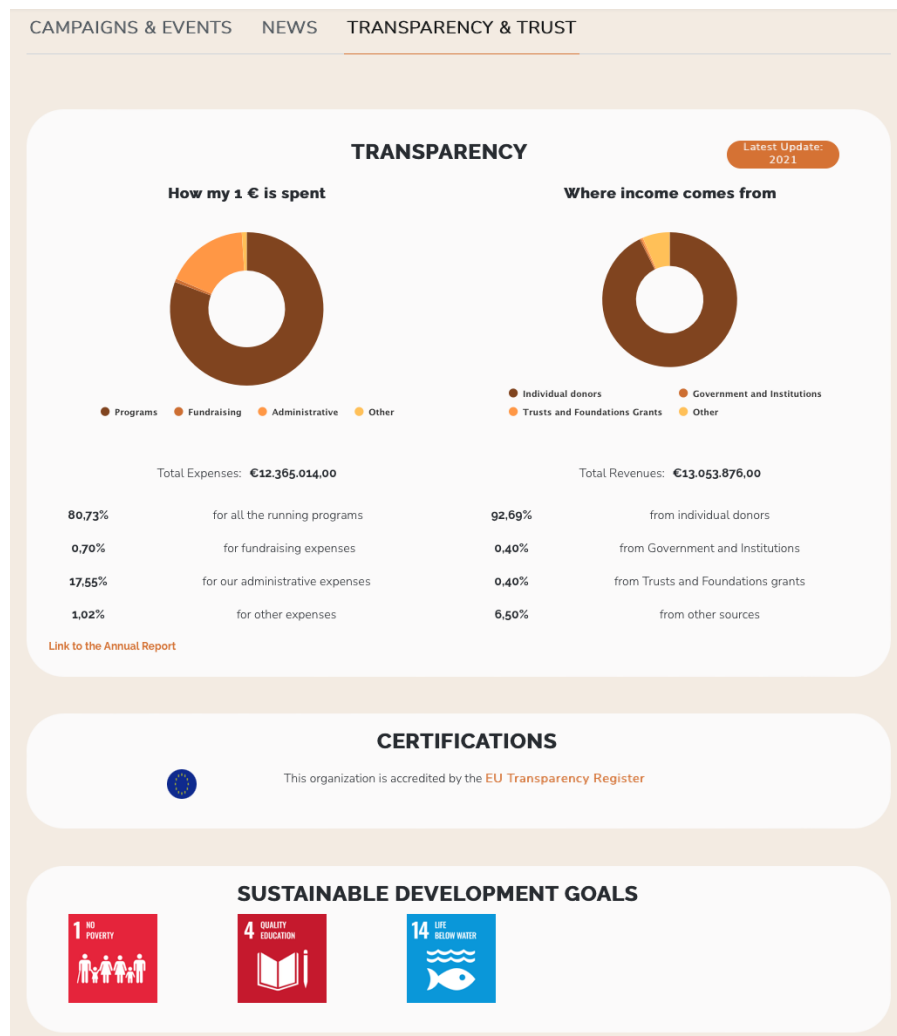


Figure 19: Example of the visualization of the Transparency and Trust section on the Organization Profile

In a realistic scenario, the organization must upload data with supporting documentation and a brief explanation of the methodology, including any bias. Begood will be in charge of evaluating the reliability of these measures. Fundamental KPIs might be added after deep

evaluations of charities' perspective. An important piece of information that needs to be included, if applicable, is how the organization provides fiscal benefits to donors.

1. Accountability-related metrics, directly gathered from the organization's balance sheet ([Figure 20](#)).

- a. Income by sources

This graph's main objective is to let the user understand the amount of money raised and where the support comes from. Currently, the primary metrics are displayed as a percentage of the Total Income and include (1) income from private individuals, (2) income from governments and institutions, (3) income from trusts and foundations, and (4) other income.

- b. Expenses by primary purposes

The primary purpose of this graph is to help the user comprehend how the organization is performing and how it is pursuing its goal. Currently, the primary metrics displayed consist of (1) program expenses, i.e., funds spent to support the beneficiaries of active campaigns, (2) fundraising expenses, and (3) administrative expenses. These are also displayed as a percentage of total operating expenses (EBITDA).

2. Certifications

In this section, the user can upload accredited certifications with supporting documents. According to reality, the EU Transparency Register certificate is used as an example by all organizations currently registered on Begood. Certifications must be current, which means they can only be older than two years. Other pertinent data or

observations may also be included, but only if they strengthen the case for a particular organization's beneficial traits.

3. Sustainable Development Goals (SDGs)

This section contains information regarding the organization's commitment to the SDGs and Agenda 2030. The SDGs provide a "shared blueprint for peace and prosperity for people and the planet, now and in the future" (United Nations 2015). These objectives are basic success indicators applicable to all charitable causes. The organization has the responsibility to choose the goals that best fit its strategies and vision.

5.1.5 Campaign Details

This page's primary purpose is to provide detailed information and campaign updates. As shown in *Figure 21*, there are no contents displayed, but the goal is for the charity to upload or link targeted, up-to-date content, such as videos, photos, and interviews. This will provide further evidence of the organization's activity.

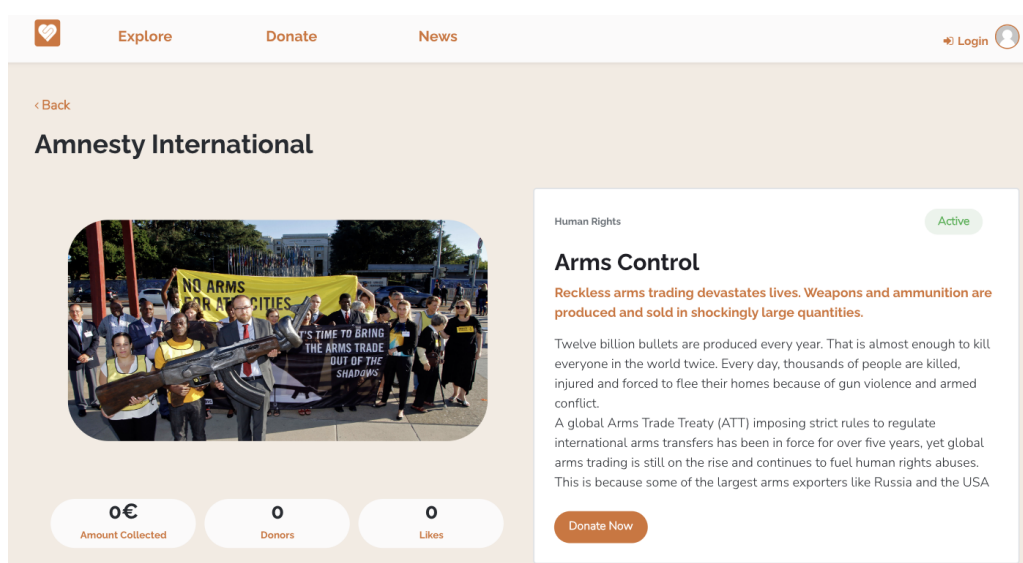


Figure 21: Example of the visualization of the Campaigns Detail page

6. Conclusions

6.1 Conclusions

Oftentimes, it is challenging for nonprofit organizations to gain the trust of individuals and demonstrate their true impact on our society. Due to the great distance between potential donors and charities, network potential is frequently lost. Efforts are clearly needed to fill this gap. Despite the fact that nonprofit organizations view such goals as secondary in comparison to their primary mission, they highlight the need for a more transparent charity sector.

Begood intends to strengthen the network by serving as a bridge between individuals and nonprofit organizations. Our motivation resided in answering three main questions:

- What do charities do with the funds they raise?
- How are small donations making a difference?
- What might reinforce donors' confidence in charitable organizations?

By means of this web application, we propose a method for enhancing the relationship between the two sides of the network.

From the charities' side, we provide a way to be more transparent and gain the donors' trust.

By managing their own profiles, nonprofit organizations have the opportunity to highlight the impact they are generating and increase donor confidence through data and a better understanding of their activities;

From the individual side, we provide a way to feel more informed and engaged in the philanthropic sector. By having access to a tool that provides reliable information, the donor gains an understanding of what the charity's sector has to offer. Begood eases donors' communication with multiple organizations from a central location, engages the user with

customized contents, and keeps them fully informed of what's happening in the nonprofit industry as a whole and with regard to a specific organization.

Throughout the development of the web application, we iteratively tested the features implemented to examine usability or design issues and to expose our general idea to hypothetical users. Although the sample used for the supervised user testing was small at this stage of the project, the feedback collected reinforced our product's idea.

Begood aspires to be a trustworthy environment where transparency and impact are the founding pillars and main drivers. Through this reactive web application, we are reducing the barriers that prevent people from donating, thereby achieving our objectives. Begood will, from a higher point of view, increase awareness of social causes and make it easier to take an active part in the change.

6.2 Limitations

The fragmented regulatory landscape for nonprofits in Europe is the primary limitation of our project. Currently, it is difficult to standardize detailed procedures and requirements that are applicable to all European member states and all stakeholders. This restriction may lead to the existence of inconsistent data that cannot be fairly compared across nonprofit organizations. As stated in *Section 2.3.1*, this limitation will be mitigated by future regulation developments at the European level (EFA 2022).

The decision to give our project a European scope can be viewed as presumptuous and entails more limitations, but from the outset, our goal was to create an inclusive and comprehensive environment, and we had no intention of limiting it to an individual member state. However, this expanded scope necessitates additional resources and cooperation from individuals across Europe, a step we will take in the coming months.

This study focuses on the perspective of donors and an analysis of their needs. Assessing potential obstacles requires additional analysis from the perspective of nonprofit organizations. This restriction is primarily a result of time constraints. Nonetheless, future work will mitigate this limitation and concentrate more on charitable organizations, with the ultimate objective of launching the Begood network.

6.3 Future Developments

This Work Project's output represents the initial phase of a larger scope that must be addressed in greater depth. Future work will involve additional research and design processes, including:

- Extensive primary research over charities perspective and feedback;
- Comprehensive analysis of the legal environment in Europe at national and international level, and of forthcoming political developments;
- Translation of our web application to other european languages in order to allow everyone to understand our scope;
- Establishment of additional design procedures to aid in the implementation of advanced features;
- A detailed formulation of a marketing strategy that is useful for lead generation;

In order for Begood to become a reality, we will continue our mentoring program with relevant US-based players who have already established a business of a similar nature, and start building solid relationships with European stakeholders.

References

Aguilar, Francis Joseph. 1967. *Scanning the Business Environment*. 1st ed. Macmillan; Collier-Macmillan.

Breen, Oonagh B., Carolyn J. Cordery, Louise Crawford, and Gareth G., Morgan. 2018. “Should Npos Follow International Standards for Financial Reporting? A Multinational Study of Views.” *Voluntas: International Journal of Voluntary and Nonprofit Organizations* 29: 1330–1346. <https://doi.org/10.1007/s11266-018-0040-9>

BBB. 2022. “BBB Standards for Charity Accountability.” Give.org,. Accessed December 1, 2022. <https://www.give.org/charity-landing-page/bbb-standards-for-charity-accountability> .

Bilgin, Yusuf, and Önder Kethüda. 2022. “Charity Social Media Marketing and Its Influence on Charity Brand Image.” *International Journal of Voluntary and Nonprofit Organizations* 33(1):1091-1102. Accessed December 10, 2022. <https://link.springer.com/article/10.1007/s11266-021-00426-7>

Candid Blog. 2022. “A Look at Organizations That Have Earned Seals of Transparency.” Candid Blog. Accessed December 9, 2021. <https://blog.candid.org/post/a-look-at-organizations-that-have-earned-guidestar-seals-of-transparency/> .

Charities Aid Foundation 2022. *Charity Landscape 2022*.” England: CAF. https://www.cafonline.org/docs/default-source/about-us-research/charity_landscape_report_2022.pdf .

Charity Navigator. 2022. “How We Rate Charities.” Charity Navigator. Accessed October 20, 2022. <https://www.charitynavigator.org/about-us/our-methodology/ratings/> .

Charity Watch. 2022. “Charity Rating Process.” CharityWatch. Accessed October 20, 2022.

<https://www.charitywatch.org/our-charity-rating-process> .

Chen, Pin-Shan Chen. 1976. *The Entity Relationship Model — Toward a Unified View of*

Data. Broy, M., Denert, E. edition. Berlin: Springer <https://doi.org/10.1007/978-3-642-48354>

Donors Choose. 2020. “Trust & Transparency.” DonorsChoose. Accessed November 2, 2022.

<https://www.donorschoose.org/about/finance.html>.

EFA. 2022. “MEP Lagodinsky Joins EFA Webinar on Proposed Statute for European

Cross-Border Associations & Nonprofits.” Accessed November 9, 2022. European

Fundraising Association. <https://efa-net.eu/news/mep-lagodinsky-joins-efa-webinar>

[-on-proposed-statute-for-european-cross-border-associations-nonprofits](https://efa-net.eu/news/mep-lagodinsky-joins-efa-webinar-on-proposed-statute-for-european-cross-border-associations-nonprofits) .

EFA. 2021. *Tracking the Impact of COVID-19 on Nonprofits in Europe*. European

Fundraising Association and Salesforce.org.

https://efa-net.eu/wp-content/uploads/2021/12/Nonprofit_Pulse_Report_2021_Summary.pdf .

EFA 2018. *Tax Incentives for Charitable Giving in Europe 2018*. Amsterdam: EFA European

Fundraising Association. <https://efa-net.eu/wp-content/uploads/2018/12/EFA-Tax-Survey->

[Report-Dec-2018.pdf](https://efa-net.eu/wp-content/uploads/2018/12/EFA-Tax-Survey-Report-Dec-2018.pdf) .

European Commission CORDIS. 2017. “*Third Sector impact: The Contribution of the Third*

Sector to Europe’s Socio-Economic.” Norway: Institute for Social Research.

<https://cordis.europa.eu/docs/results/613/613034/final1-tsi-613034-final-report-vs-finale.pdf>

Forbes Council Post. 2021. “The Future of Giving: Trends Shaping next-Gen Philanthropy.”

<https://www.forbes.com/sites/forbesnonprofitcouncil/2021/12/27/the-future-of->

[giving-trends-shaping-next-gen-philanthropy/?sh=459d2bb21b88](https://www.forbes.com/sites/forbesnonprofitcouncil/2021/12/27/the-future-of-giving-trends-shaping-next-gen-philanthropy/?sh=459d2bb21b88) .

- GoFundMe. 2022. “GoFundMe Fees: Information and Answers to Top Questions.”
- GoFundMe. Accessed November 6, 2022. <https://www.gofundme.com/c/blog/gofundme-fees>.
- Gunther, Marc. 2015. “Why Charity Navigator Needs an Upgrade.” *Nonprofit Chronicles*. Accessed November 20, 2022. <https://nonprofitchronicles.com/2015/04/05/why-charity-navigator-needs-an-upgrade/> .
- Hackler, Darrene, and Gregory D. Saxton. 2007. “The Strategic Use of Information Technology by Nonprofit Organizations: Increasing Capacity and Untapped Potential.” *Public Administration Review* 67(3): 474-487. <https://onlinelibrary.wiley.com/doi/10.1111/j.1540-6210.2007.00730.x>
- Hatzijordanou, Nadja, Nicolai Bohn, and Orestis Terzidis. 2019. “A Systematic Literature Review on Competitor Analysis: Status Quo and Start-up Specifics”. *Management Review Quarterly* 69: 415–458. <https://link.springer.com/article/10.1007/s11301-019-00158-5>.
- IRS. 2022. “Charitable Contribution Deductions.” IRS. Accessed December 9, 2022. <https://www.irs.gov/charities-non-profits/charitable-organizations/charitable-contribution-deductions>.
- IUPUI. 2022. *The Global Philanthropy Environment Index 2022*. IU Lilly Family School of Philanthropy. <https://scholarworks.iupui.edu/handle/1805/28098>.
- Yörük, Barış. 2016. “Charity Ratings.” *Journal of Economics & Management Strategy* 25(1): 195-219. <http://dx.doi.org/10.1111/jems.12139>
- Matharu, Gurpreet, Anju Mishra, Harmeet Singh, and Priyanka Upadhyay. 2015. “Empirical Study of Agile Software Development Methodologies.” *ACM SIGSOFT Software* 40(1): 1-6 <https://dl.acm.org/doi/10.1145/2693208.2693233>.

Mogus, Jason, and Austen Levihn-Coon. 2018. "What Makes Nonprofit Digital Teams Successful Today?" *Stanford Social Innovation Review*.

<https://doi.org/10.48558/BHKG-AG97>.

Osili, Una, Jonathan Bergdoll, Andrea Pactor, Jacqueline Ackerman, and Peter Houston. 2021. "IUPUI ScholarWorks Repository." *IUPUI*. Indiana University Lilly Family School of Philanthropy. April. https://scholarworks.iupui.edu/bitstream/handle/1805/25515/crowd_funding210331-1.pdf.

Paypal Editorial Staff. 2022. "Give at Checkout Enables PayPal Users to Purchase with Purpose." *Paypal*. Accessed October 20, 2022.

<https://www.paypal.com/us/brc/article/st-jude-paypal-nonprofit-case-study>.

Pitt, Andrew, Amy Thompson, and Karen Kardos. 2021. "Philanthropy and the Global Economy: Opportunities in a World of Transition." *Citi Global Perspectives & Solutions* (November 2021): 1-104. <https://www.privatebank.citibank.com/newcpb-media/media/documents/insights/Philanthropy-and-global-economy.pdf>.

Saeri, Alexander K., Peter Slattery, Joannie Lee, Thomas Houlden, Neil Farr, Romy L. Gelber, Jake Stone, et al. 2022. "What Works to Increase Charitable Donations? A Meta-Review with Meta-Meta-Analysis". *Voluntas: International Journal of Voluntary and Nonprofit Organizations* (2022):1-17. <https://doi.org/10.1007/s11266-022-00499-y>.

Strathmann, Sara. 2018. "An Analysis of Rating Systems Used by Watchdog Organizations for Nonprofit Charities in the Health and Human Services Sector". Senior Theses, University of South Carolina - Columbia. https://scholarcommons.sc.edu/senior_theses/262

The Guardian News and Media. 2022. "Charities | Society." *The Guardian*.

<https://www.theguardian.com/society/charities>.

United Nations. 2015. “The 17 Goals | Sustainable Development.” Accessed December 1, 2022. <https://sdgs.un.org/goals#history>.

United Nations News. 2022. “Humanitarian Aid”. United Nations. Accessed November 10, 2022. <https://news.un.org/en/news/topic/humanitarian-aid> .

Glossary

Charity Sector: usually referred to as Third Sector. For the sake of clarity, here we refer to the charity sector or industry as to include not only nonprofit institutions, but also charities, social enterprises, civil society and volunteering elements.

Low-code Technology: low-code application development is a method that significantly reduces the amount of time needed to build and develop an application. With this method, coding transitions from textual to visual.

Minimum Viable Product (MVP): basic, early stage product that can be improved and adapted in the future, but experienced and validated in the present.

Nonprofit organization or Charities: non-business entity, organization established to serve the greater good of society rather than to make a profit. The term "nonprofit organization" in this work project refers to charitable nonprofit organizations whose main goals are philanthropic and social well-being. Nonprofit organizations can be diverse in their missions and in the communities they serve.

User Interface (UI): the area, here referred mainly as display screens and their visualization, where interactions between machines and people take place.

Figures

Figure 3

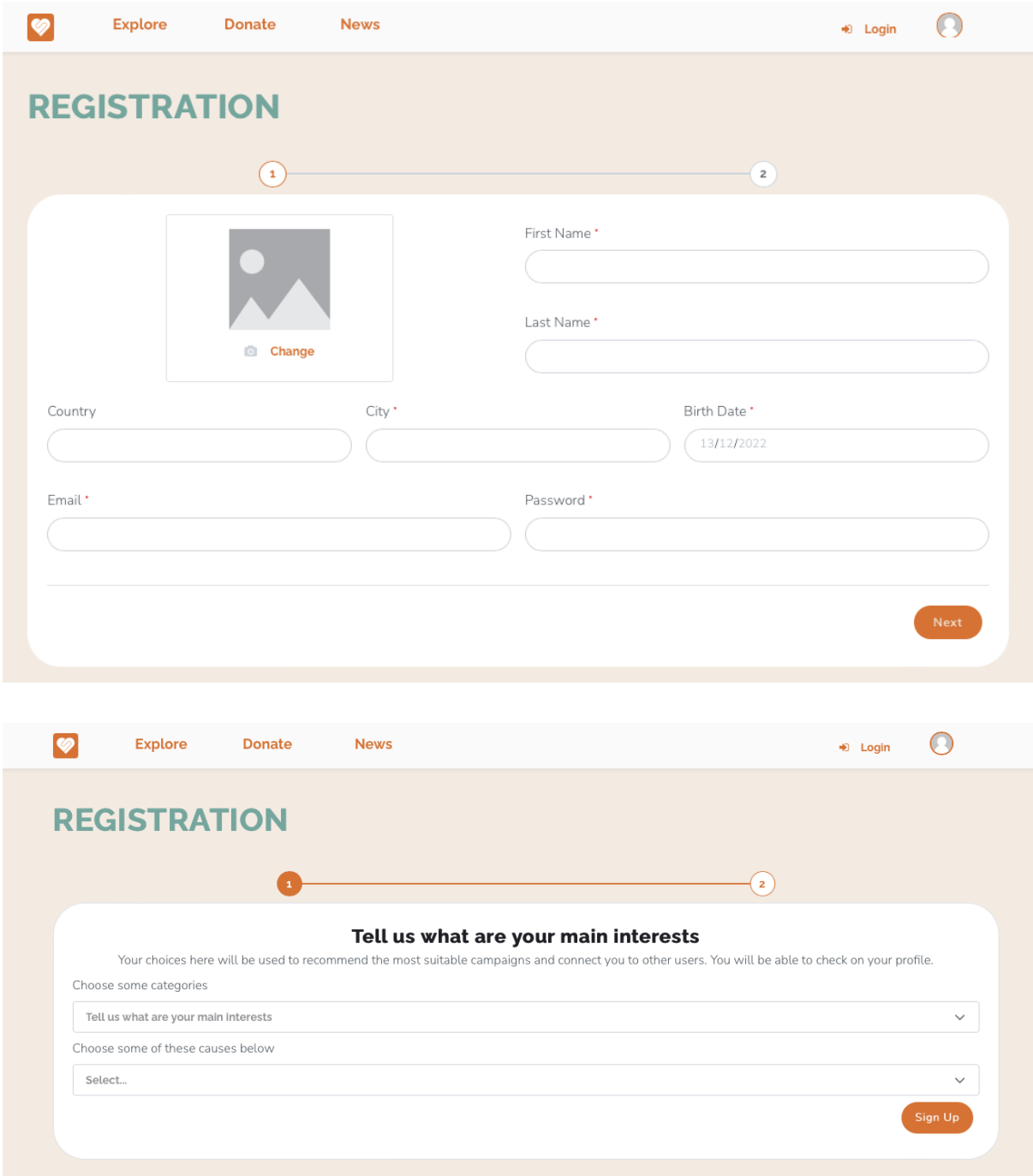


Figure 3: Sign In procedure for donors.

Figure 4

The screenshot shows a web form titled "CREATE A PROFILE FOR YOUR ORGANIZATION" on the Begood website. The form is designed for non-profit organizations and includes the following fields and sections:

- Organization Name:** A text input field containing "Begood".
- Charity Type (optional):** An empty text input field.
- Headquarters Region:** A dropdown menu with "Europe" selected.
- Headquarters Country code:** A dropdown menu with "IT" selected.
- Headquarters City:** A dropdown menu with "Milan" selected.
- Organization Foundation Year:** A text input field containing "1991".
- Organization website URL:** An empty text input field.
- Organization Introduction:** A large text area for a description.
- Point of Contact - First Name:** A text input field containing "Maria".
- Point of Contact - Last Name:** A text input field containing "Saggiolo".
- Point of Contact - Role (optional):** A dropdown menu with "Head of Communication" selected.
- Point of Contact - Email:** A text input field containing "maria.saggiolo@gmail.com".
- Password:** A text input field containing "*****".
- Twitter Personal Id (optional, we will use it to integrate your Twitter Feed):** A text input field containing "176657380".
- IBAN (optional):** A text input field containing "IT*****".
- Twitter URL (optional):** An empty text input field.
- Instagram URL (optional):** An empty text input field.
- Facebook URL (optional):** An empty text input field.
- LinkedIn URL (optional):** An empty text input field.
- Comment:** A large text area with the prompt "Please, leave here a comment to introduce us your organization and why you want to join our platform." and a small "x" icon in the bottom right corner.

At the bottom right of the form is a button labeled "Send your request".

Figure 4: Sign Up procedure for Nonprofit organizations.

Figure 5

Eugenia Saggioro
29 May 1999
Italy
Montagnana
eusebia99@libero.it

Approval Requests | Support Requests | Donations Details | Manage Entities

Organization	Email	org url	Comment	Status
Begood	mariabaglieri@icloud.com			Complete
Fundação Do Gil	joaodogil@gmail.com	https://fundacaodogil.pt/product/donativo/	I would like to access your platform and be visible. Thanks.	Complete
Greenpeace	patrickmoore@gmail.com	https://www.greenpeace.org/international/		Complete
Emergency Onlus	ceciliastrada@gmail.com	https://www.emergency.it		Complete
Save the Children	jantisoeripto@gmail.com	https://www.savethechildren.net		Complete
Amnesty International	ileanabello@gmail.com	https://www.amnesty.org/en/		Complete
World Wildlife Fund	danieladucato@gmail.com	https://www.worldwildlife.org		Complete

1 to 7 of 7 items | 1 of 1 pages

Figure 5: Platform Manager Profile Page.

Figure 7

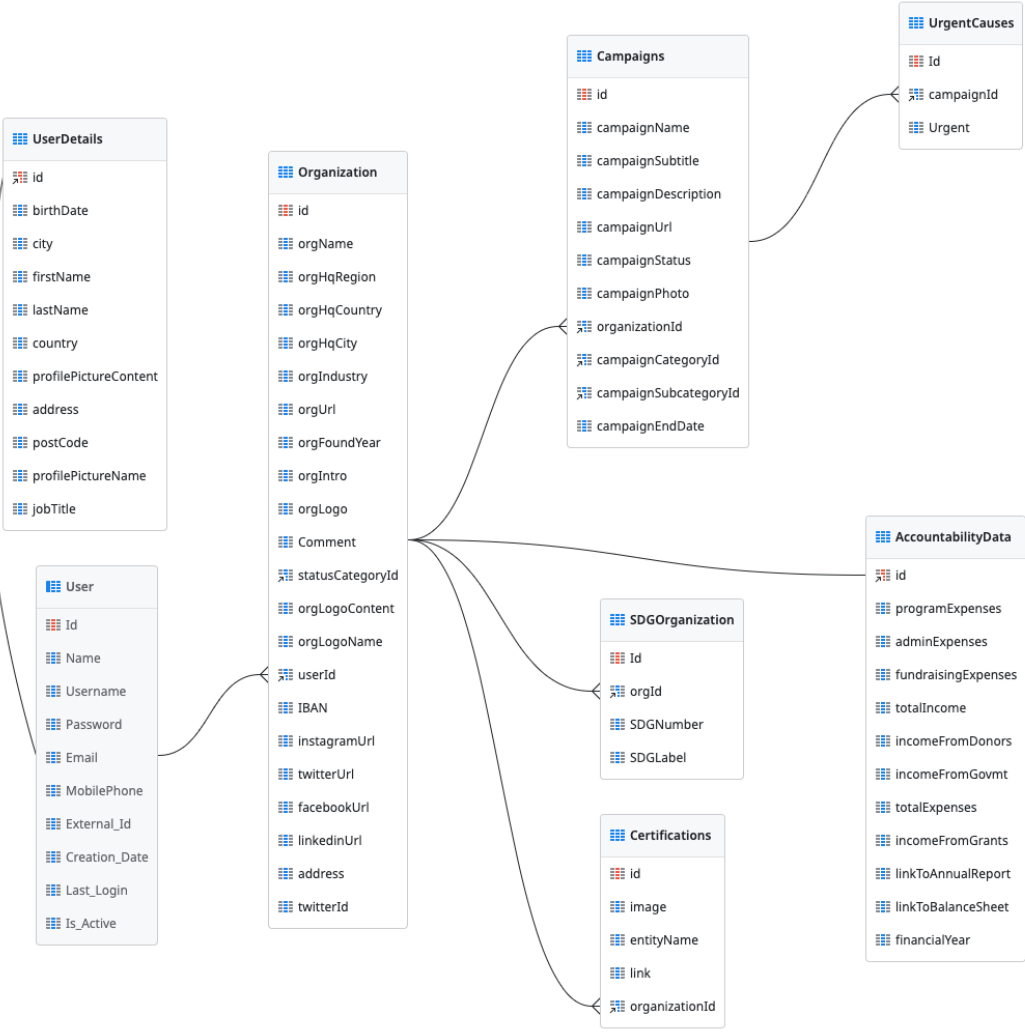


Figure 7: Entity Relationship Diagram of Organization and Campaigns attributes.

Figure 8



Figure 8: Entity Diagram representing User Attributes.

Figure 9



Figure 9: Entity Diagram with Donations related attributes.

Figure 10



Figure 10: Home Page

Figure 11

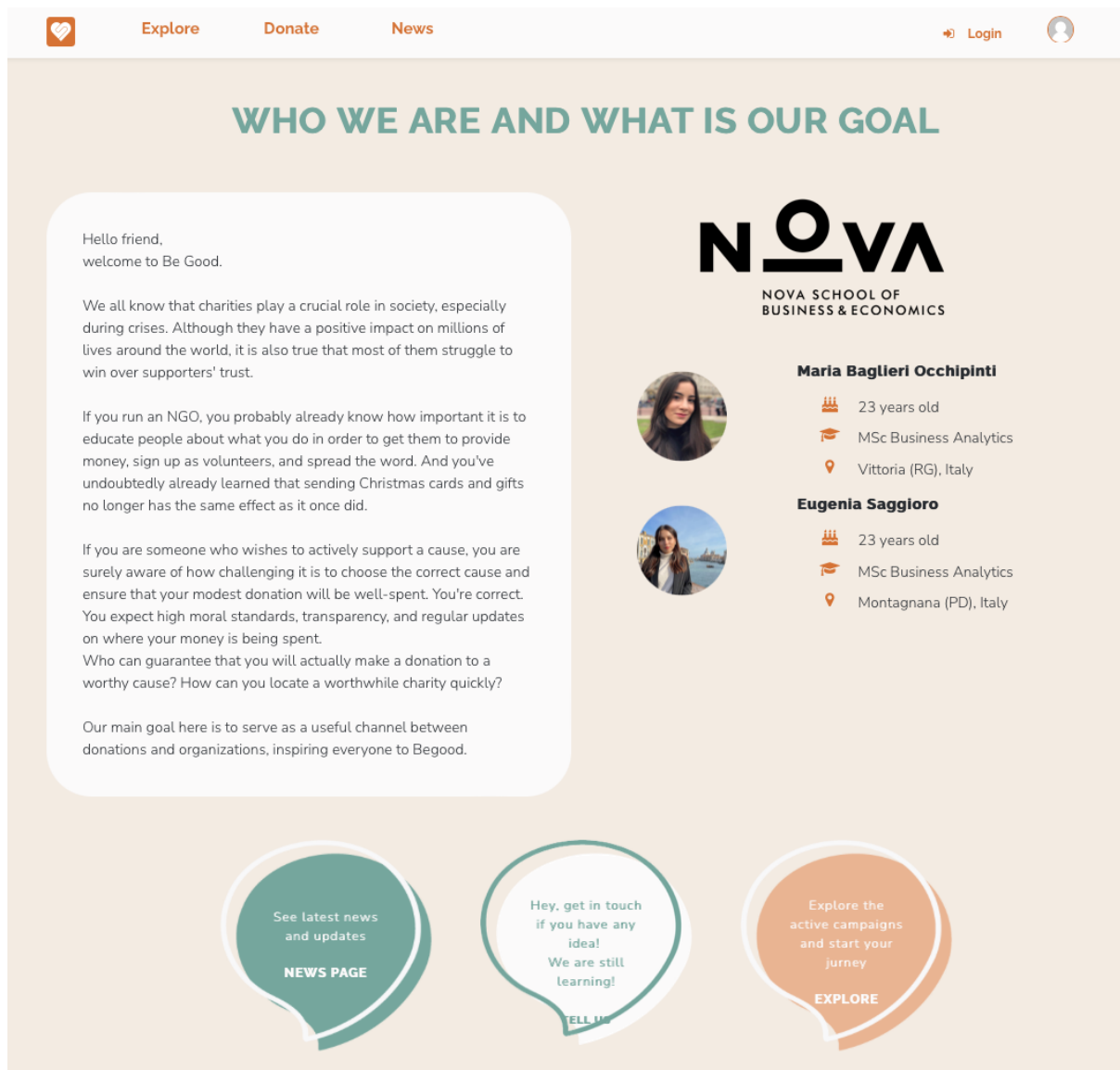


Figure 11: About Us.

Figure 12

Explore Donate News Login

FAQs

HOW DO I START A CAMPAIGN IF I AM AN ORGANATION?

Anyone who meets our organization's requirements can launch or upload a campaign on Begood. We encourage you to ask us for tips on structuring and running your campaign. When you're ready, simply head to our [registration page](#) and start building - we're excited to see your campaign on our platform and help you gain donors' trust!

HOW WILL BE MONEY TRANSFERRED TO THE ORGANIZATION BANK ACCOUNT AND WHEN?

If a campaign or organization is successfully funded, the funds pledged will be debited directly from your donors' cards. There is a 14-day window following a donation where we will be collecting and processing the contribution. After the 14 days have passed, a payout can be initiated from your profile and the funds will be automatically transferred directly to your bank account. The payout for your project will be transferred as a single transaction per request, which should appear in your bank account as coming from Begood.

HOW CAN I BE SURE MY DONATION CONTRIBUTES TO THE RIGHT CHARITY?

Begood will update you through notifications on your profile about the latest news from a specific campaign or organization. If you don't receive your adoption updates, please contact us.

WHEN WAS BEGOOD FUNDED?

Begood idea comes out in 2022 with two students' idea of helping donors and charities trust each other and give support to people and causes in need. "Alone we can do so little together we can do so much." – Helen Keller
See more info in [About Us](#)

HOW DOES BEGOOD WORK?

Organizations upload their active campaigns on Begood telling their stories and setting goals. They will then manage and accept donations through their page. Signing up is easy and every donation is owned by the organization, whether or not it reaches the goal. Begood makes it incredibly easy to raise money online for social causes. As a donor, you will be protected and you will get all the useful updates from the organizations you follow, and the campaigns you like and contributed to. Our team will support you in whatever is your need. Check How it works or ask a question Support

WHICH CAUSES ARE SUPPORTED IN BEGOOD?

BeGood supports all types of charity causes, including Animals, Arts, Culture, Humanities, Community Development, Education, Environment, Health, Human and Civil Rights, Human Services, International, Research and Public Policy, and Religion. You can find here below a list of specific categories supported. Check out the active campaigns [here](#) or the latest success stories [here](#). The availability of active campaigns in a specific category depends on the organization's activity. If you want to contribute to a specific social cause, but you don't find any available campaign, please contact us. We will try to help you.

Figure 12: Frequently Asked Questions.

Figure 18

1 Developer Portal

Documentation

Search the docs

Getting started

Fundamentals

Tools and libraries

Tutorials

API reference index

Twitter API

The Twitter API enables programmatic access to Twitter in unique and advanced ways. Tap into core elements of Twitter like: Tweets, Direct Messages, Spaces, Lists, users, and more.

[Sign up](#) [API access levels and versions](#) [Try a live request](#)

Twitter API v2

Twitter API v2 is ready for prime time! We recommend that the majority of developers start to think about migrating to v2 of the API, and for any new users to get started with v2. Why migrate?

3 REST

- Newsapi
 - Twitter
 - GetTweets
 - orgTwitterId
 - Authorization
 - Response
 - Data
 - Attachments
 - Created_at
 - Id
 - Author_id
 - Public_metrics
 - Text
 - Edit_history_tweet_ids
 - Referenced_tweets
 - Includes
 - Media
 - Users
 - Id
 - Url
 - Name
 - Description
 - Created_at
 - Entities
 - Profile_image_url

2

Method: GET

URL: `https://newsapi.org/v2/everything?q={organization}&from={from}&to={to}&sortBy={popularity}&searchIn={title,description}&pageSize={20}&language={en}&apiKey={key}`

Body: Headers and Authentication | Text

Response:

```
{
  "status": "ok",
  "totalResults": 49,
  "articles": [
    {
      "source": {
        "id": "reuters",
        "name": "Reuters"
      },
      "author": null,
      "title": "Analysis: Restoring nature could depend on how countries help farmers - Reuters",
      "description": "Famous for its lamb, New Zealand's agriculture industry was once so well-subsidized that slaughterhouse workers were said to earn mo...",
      "url": "https://www.reuters.com/business/cop/restoring-nature-could-depend-how-countries-help-farmers-2022-11-29/",
      "urlImage": "https://www.reuters.com/pf/resources/images/reuters/reuters-default.jpg?w=120",
      "publishedAt": "2022-11-29T00:01:00Z",
      "content": "LONDON, Nov 29 (Thomson Reuters Foundation) - Famous for its lamb, New Zealand's agriculture industry was once so well-subsidized that s...",
      "source": {
        "id": "reuters"
      }
    }
  ]
}
```

3

REST Client showing response structure:

- Profile picture
- Name: @Username
- Text
- 32 likes
- 345 replies

Figure 18: Visualization of the main steps to consume a REST API in Outsystems

Figure 20

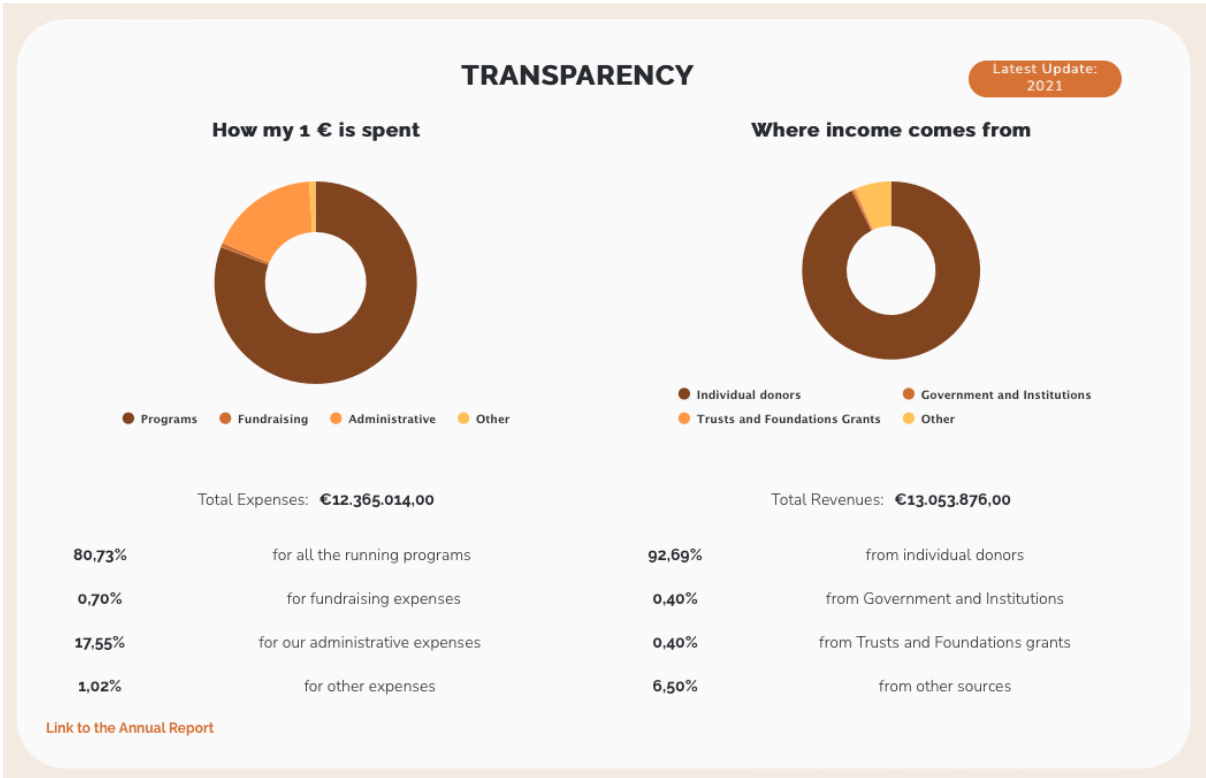
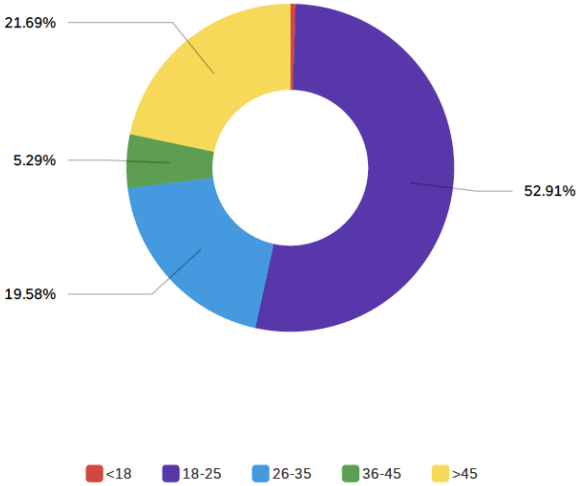


Figure 20: Accountability-related metrics.

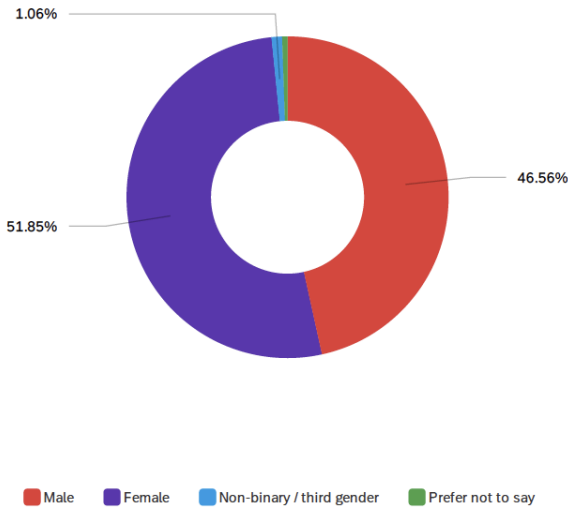
Appendix A - Survey Report

Q1 - How old are you?



#	Field	Choice Count
1	<18	0.53% 1
2	18-25	52.91% 100
3	26-35	19.58% 37
4	36-45	5.29% 10
5	>45	21.69% 41
		189

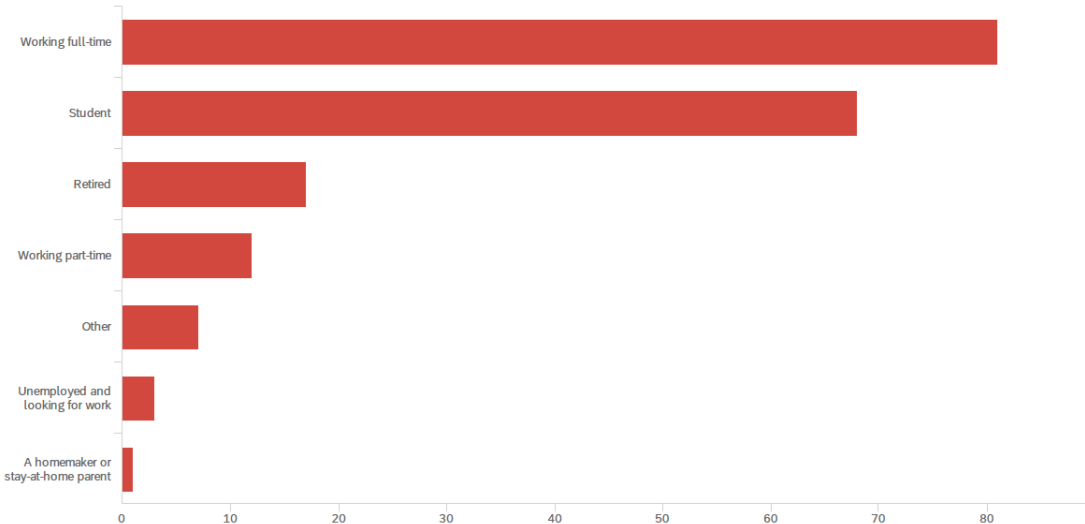
Q2 - Gender Identity



#	Field	Choice Count
1	Male	46.56% 88
2	Female	51.85% 98
3	Non-binary / third gender	1.06% 2
4	Prefer not to say	0.53% 1

189

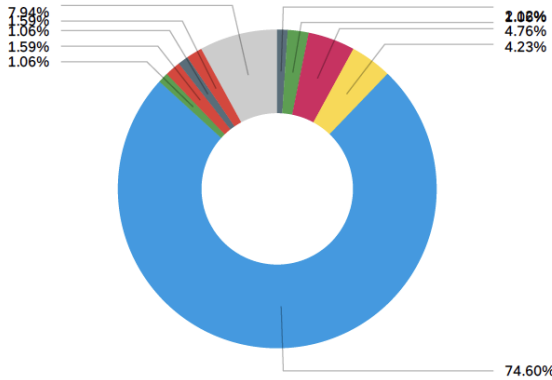
Q3 - What best describes your employment status over the last three months?



#	Field	Choice Count
2	Working part-time	6.35% 12
1	Working full-time	42.86% 81
3	Unemployed and looking for work	1.59% 3
5	Student	35.98% 68
6	Retired	8.99% 17
7	Other	3.70% 7
4	A homemaker or stay-at-home parent	0.53% 1
		189

Standard report 1 of 10

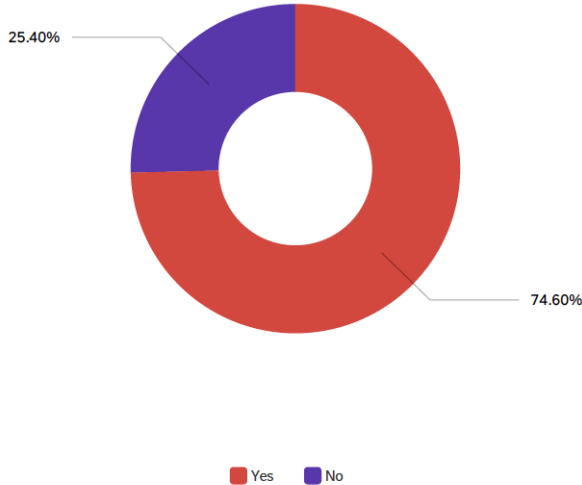
Q4 - List of Countries



Canada France Germany India Italy Luxembourg Portugal Serbia Spain All Others

#	Field	Choice Count
84	Italy	74.60% 141
65	Germany	4.76% 9
78	India	4.23% 8
61	France	2.12% 4
138	Portugal	1.59% 3
163	Spain	1.59% 3
31	Canada	1.06% 2
101	Luxembourg	1.06% 2
153	Serbia	1.06% 2
10	Austria	0.53% 1
37	Colombia	0.53% 1
45	Czech Republic	0.53% 1
53	Egypt	0.53% 1
94	Latvia	0.53% 1
104	Malaysia	0.53% 1
143	Russian Federation	0.53% 1
157	Slovakia	0.53% 1
168	Sweden	0.53% 1
169	Switzerland	0.53% 1
178	Tunisia	0.53% 1
183	Ukraine	0.53% 1
185	United Kingdom of Great Britain and Northern Ireland	0.53% 1
187	United States of America	0.53% 1
		189

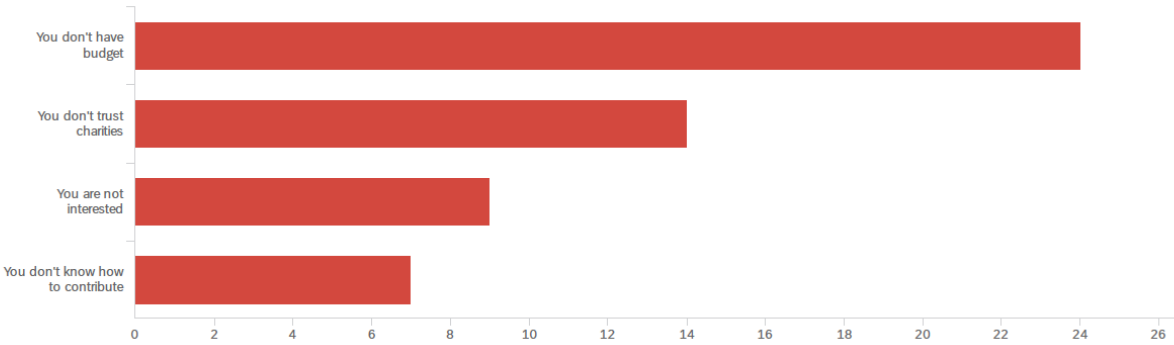
Q5 - Have you ever contributed to a social cause through donations?



#	Field	Choice Count
1	Yes	74.60% 141
2	No	25.40% 48

189

Q6 - You have never donated because:

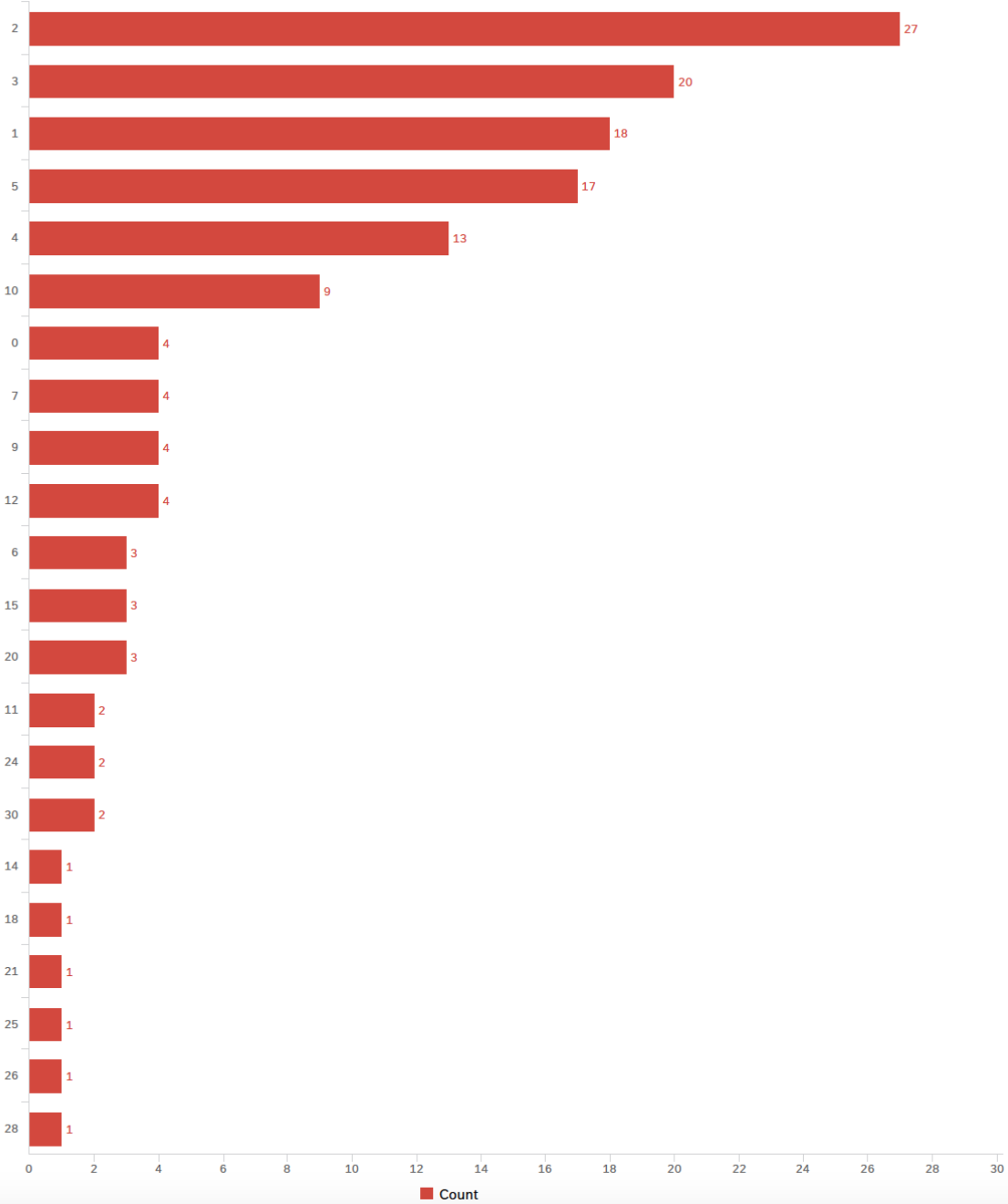


#	Field	Choice Count
4	You don't have budget	44.44% 24
1	You don't trust charities	25.93% 14
3	You are not interested	16.67% 9
2	You don't know how to contribute	12.96% 7

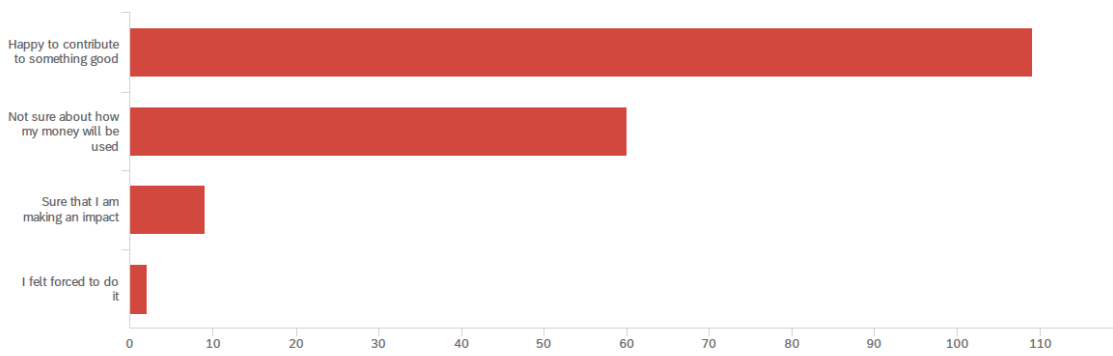
54

Q7 - How often do you donate in a year (on average)? Number of donations

#	Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
6	Retired	2.00	30.00	11.65	9.54	91.05	17
1	Working full-time	0.00	25.00	6.38	5.90	34.77	64
5	Student	1.00	30.00	4.57	5.60	31.34	44
7	Other	2.00	5.00	3.71	1.28	1.63	7
4	A homemaker or stay-at-home parent	3.00	3.00	3.00	0.00	0.00	1
3	Unemployed and looking for work	3.00	3.00	3.00	0.00	0.00	1
2	Working part-time	0.00	5.00	2.43	1.40	1.96	7



Q8 - How do you feel when you donate?



#	Field	Choice Count
1	Happy to contribute to something good	77.30% 109
2	Not sure about how my money will be used	42.55% 60
3	Sure that I am making an impact	6.38% 9
4	I felt forced to do it	1.42% 2
		141

Q9 - How much would you trust these organizations/activities? Order your choices.

First one is the organization you trust the most

#	Field	1	2	3	4	Total
1	Big Charity (e.g. Greenpeace, Amnesty International, Save The Children)	43.85% 82	18.18% 34	23.53% 44	14.44% 27	187
2	Local small charity	25.67% 48	32.09% 60	31.02% 58	11.23% 21	187
3	Online crowdfunding (e.g. Gofundme)	2.67% 5	15.51% 29	25.67% 48	56.15% 105	187
4	Volunteering event	27.27% 51	34.22% 64	19.79% 37	18.18% 34	187

Showing rows 1 - 4 of 4

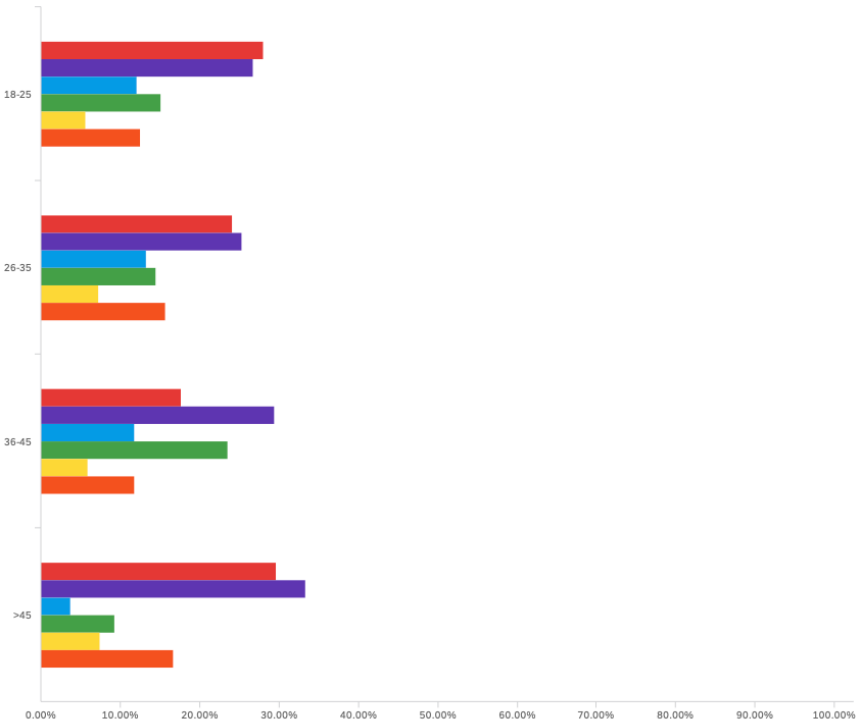
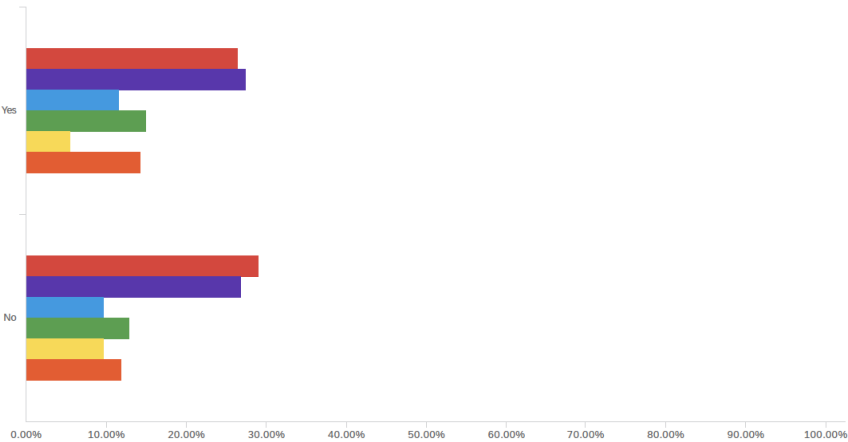
#	Field	Mean
1	Big Charity (e.g. Greenpeace, Amnesty International, Save The Children)	2.09
2	Local small charity	2.28
3	Online crowdfunding (e.g. Gofundme)	3.35
4	Volunteering event	2.30

Q10 - Which of these options would help you donate more?

#	Field	Choice	Count
2	To know more about how my money are used (e.g. update about my donations/campaigns I contributed to)	56.08%	106
1	To have more money	55.56%	105
4	To have an easy overview of specific data of the charity (e.g. financial reports)	29.63%	56
6	To have all the above information and more on the same platform	28.04%	53
3	To read news or feedback about charities' operations	22.75%	43
5	To talk to some friends or people I know	13.23%	25

189

Showing rows 1 - 7 of 7



Q13 - Nonprofit organizations or charities should...

#	Field	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	Total
1	Demonstrate more how they spend the money raised	1.06% 2	1.06% 2	4.76% 9	30.69% 58	62.43% 118	189
2	Use other communication channels	1.06% 2	2.12% 4	21.16% 40	51.32% 97	24.34% 46	189
3	Keep the donor updated on their campaigns	1.59% 3	1.59% 3	5.82% 11	39.68% 75	51.32% 97	189
4	Make the donor feel more involved	1.06% 2	3.17% 6	14.81% 28	41.27% 78	39.68% 75	189

Showing rows 1 - 4 of 4

#	Field	Mean	Bottom 2 Box	Top 2 Box
1	Demonstrate more how they spend the money raised	4.52	2.12%	93.12%
2	Use other communication channels	3.96	3.17%	75.66%
3	Keep the donor updated on their campaigns	4.38	3.17%	91.01%
4	Make the donor feel more involved	4.15	4.23%	80.95%