

**Goods Donation Facilitating System  
Requirements Specification**

**Version 1.0**

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# Goods Donation Facilitating System Requirements Specification

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## 1. Executive Summary

### 1.1 *Project Overview*

With the rise of attention to the discrepancies and shortcomings of our current economic system and its effects on the environment, consumers have become more critical of their role in this system and the global scene as a whole. This has been shown in their efforts in trying to distance themselves from waste production, campaigning and protesting for businesses to join in their efforts, and declining trust in charity organizations, particularly local ones, as corruption scandals give rise to donation hesitance.

In response to this, we have developed a web service that enables and encourages the growth of a circular economy by simplifying the distribution and donation of excess/leftover products between individuals, businesses, and charities.

Our program allows people and businesses to communicate with each other and charities by listing their surplus products and distributing them to interested users. Individuals can post a product picture alongside a pick-up location, and converse with others on the application to give away or receive for free an item that would have otherwise been wrongly thrown away from disuse.

Businesses are able to list the surplus stock they have (or expect to have in the case of food-related businesses) with a heavily discounted price, giving them the ability to profit from products that before would have been considered losses. This new reach of customers, coupled with the 8% of the revenue from sales being automatically donated to a random charity on our service, aids in building a broader customer base based on trust.

In addition to these donations, these entities can offer their products to charities, who can establish their presence and raise awareness towards their causes on our software. Charities can sort and manage these donations, and recruit users as volunteers. Like with donations, volunteer listings can be controlled and applications can be approved based on the user's volunteering history on the app.

Moreover, our service supports simple management operations (viewing, editing, deleting) regarding listings, donations, and business orders, profit visualization, and the generation of donation records for tax deduction purposes.

As the donation process is simplified and made safer through users' ratings and reportings of dangerous, harmful activity, our application allows individuals and businesses to reduce their waste and encourage sustainability as they assist each other and charities in a more hands-on approach that builds strong community relations.

### 1.2 *Purpose and Scope of this Specification*

The objective of this specification is to evaluate the product design as it stands right now and to record the development process based on research of our intended audience and design deliberations and constrictions.

This specification covers requirements regarding the application environment and its actors. As a result, in this scope, we address the following:

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- Detailed documentation of the product's features
- Technical synopsis of system processes and perspectives
- User and system Requirements
- Components & functional/non-functional requirements
- Product usage explanation
- Dependences and restrictions

The following are some aspects that not included in this scope:

- The product's legislative requirements
- Product auditing and financial factors

## 2. Product/Service Description

Our web service aims to promote a circular economy; we want to connect the people with each other, local businesses, and charity organizations in order to fight hyperconsumerism and improve the overall condition of the community as a whole.

Each user will be able to list products that lack utility for them to give away or claim such products from other users in their vicinity. They will also be able to offer their products directly to charities.

Businesses can list the surplus stock they have with a noticeably discounted price. This would allow them to still collect a profit over items that would have otherwise been thrown away. A percentage of the price will be sold will also get donated to one of the charities available in our service.

Charities can raise awareness through our services but also manage donations and recruit users as volunteers.

### 2.1 *Product Context*

This service aims to enable communication between the community, its businesses, and charities in order to facilitate the process of “giving away” for everyone. Similar systems exist in the market, however their focus resides on capital accumulation, instead of the peer-to-peer charital aspect which we aim to follow.

The software simplifies the transactional process of in-kind donating by utilizing GIS software to boost awareness on a user's offers and connect them with charities, incorporating a messaging gateway for individuals to achieve verbal cooperation efficiently, and utilizing payment gateways to further streamline the interaction with businesses in a way that is most familiar to the users. This accessibility-based approach aids in attracting and motivating participation in this simulation of a sharing economy.

### 2.2 *User Characteristics*

Individual

- Create/edit/delete a product listing
- Filter public listings based on product category
- Place a request on a product/volunteer listing

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- Accept/reject a request on their listing
- Communicate with a listing's owner through in-app messaging
- Pay for a business order in the application
- Receive a digital receipt for an accepted order
- Offer a donation to a charity
- Generate donations record
- Report users

### Business manager

- Create/edit/delete a product listing
- Temporarily cancel a listing
- Reject an order within a 2-hour timeframe
- Offer a donation to a charity
- Generate donations record
- Generate listing- or period-specific revenue statistics

### Charity organization manager

- Approve/reject in-app donations
- Filter donations by pick-up or drop-off option
- Create/edit/delete a volunteer listing
- Access a volunteer applicant's in-app volunteering activity
- Filter volunteers by duty or job timeframe
- Rate volunteer

### Platform administrator

- Handle user reports
- Moderate listings
- Regulate business operations and transparency
- Ban business-based users

## 2.3 Assumptions

- It is assumed that the users are familiar with the English language.
- The users are assumed to have a device with internet access in order to connect to the web service (laptop, PC, tablet, mobile phone, etc.).
- The users are assumed to have a basic knowledge of computer skills in order to access and use the web service.
- For moderation purposes, it is assumed that platform administrators have access to the data of businesses and individuals related to compliance reports.
- It is assumed that the rating system will be used to reward good work, and will also serve as a more accurate measurement of performance and trustworthiness.
- It is assumed that only administrators are able to add other administrators and can ban users based on their unbiased evaluation of user reports.

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### 2.4 Constraints

x

### 2.5 Dependencies

x

## 3. Requirements

### 3.1 Functional Requirements

Req#	Requirement	Comments	Priority	Date reviewed	SME reviewed/approved
BR_01	The system should offer different interfaces for different user roles.	Based on the user role, the homepage and the personal listings view will change.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_02	User should be able to create a product listing accompanied by a product photo, a description, listing timespan, pick-up location, and an expiration date.	Attributes like expiration date should be disabled for non-food-based items.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_03	Business-based user should be able to create a product listing accompanied by a product photo, description, price, and pick-up timeframe.	If the business is food-centric, the listing should include a section regarding the ingredients and allergens present in the product.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_04	Business-based user should be able to create a pantry box listing accompanied by the possible items the order can have, price, and a pick-up timeframe.	BR_04 extension.  Some businesses, like restaurants and bakeries, experience fluctuating surplus that cannot be properly predicted.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_05	Users should be		1	24.03.2023	Viktoria Bashari,

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	able to edit and delete their listings.				Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_06	Individual-type users should be able to view all public listings, separated into different interfaces based on owner user type.	Listings are automatically filtered based on user location with a 35 km radius. The system will require location permission.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_07	Individual-type users can filter public listings based on product category.	Categories include: clothing, food, miscellaneous items.	3	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_08	The system should provide a view for the requests placed on a user's listings.	Each request should be accompanied by the listing photo, the message (if any) from the requester, and an accept button.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_09	User should be able to send a request to a product listing.	The system should also prompt the user to send a message with the request, although it's optional.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_10	User should be able to send a request to a volunteer listing.	The system should automatically send the user's email to the charity's manager for further communication.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_11	User should be able to message the owner of an individual's listing.	This allows for the listing's owner to reject/accept a request as they converse with the requester regarding the pick-up location	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila

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		and time.			
BR_12	User should be notified of their listing request resolution.	The user should be informed if a request has been accepted or rejected.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_13	Individual-type user should be able to accept a request on their listing.	When a user accept a request, all remaining requests for that listing should be automatically deleted.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_14	Individual-type user should be able to place an order on a business listing.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_15	Business-based user should be able to reject an order within 2 hours.	This is to accommodate businesses whose surplus stock fluctuates and products may not be available.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_16	Business-based user should be able to temporarily cancel a listing for a specified number of days.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_17	System should automatically reject orders of a cancelled listing.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_18	The system should generate a an OTP for an order, visible to both the business and the individual.	This is to maintain security for order pick-ups.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila



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BR_19	The system should perform the payment transaction of an order automatically after 2 hours.	The system will keep track of an order's creation time, and finalize the payment after the timeframe.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_20	The system should provide 8% of an order payment to a randomly selected charity.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_21	Business-based user should be able to generate revenue statistics.	The system should show period- and listing-specific statistics.	2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_22	Charity-based user should be able to see total of revenue from business sales.		1	24.04.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_23	Charity-based user should be able to create a volunteer listing.	The form should include the duty/task, description, number of people they are looking for, and the timeframe of the duty.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_24	The user's in-app volunteering history should be accessible by charity-based users.	The history should show the duty performed, and the rating received.	2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_25	System should reject other requests when the volunteer number capacity is filled for a listing.		2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_26	Charity-based user		3	24.03.2023	Viktoria Bashari,

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	can filter accepted volunteers by timeframe.				Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_27	Charity-based user should be able to rate accepted volunteers.	This applies to volunteers whose job timeframe has ended.	2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_28	User should be able to offer a donation to charity profiles in the application.	The donation form includes a product photo, product category option, a choice between pick-up or drop-off.	1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_29	User should be able to delete a charity donation offer.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_30	User can choose to have their rejected charity donation automatically posted as a listing.	This option is highly likely to be selected by users, maintaining the circular economic model, and retaining their engagement in the application.	3	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_31	System should save the donation information for record generation after it's accepted.		2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_32	Charity-based user should be able to accept/reject a donation.		1	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_33	Charity-based user		3	24.03.2023	Viktoria Bashari,

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	can filter donations by pick-up or drop-off.				Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_34	Individual- and business-based users should be able to get the donation receipt of a selected accepted donation.	Donation records are offered as a user benefit for tax purposes, and they are used to incentivize engagement with the service.	2	24.03.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_35	Platform administrator should be able to view all listings.		1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_36	Administrator should be able to terminate listings and users.	Administrator has to provide a reason with the removal, which will be sent in an email to the offending user.	1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_37	Individual-based user should be able to report a user or a listing.	User has to provide a reason for the report.	1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_38	Individual-based user should be able to rate a user.		2	1.04.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_39	Administrator should be able to accept or reject user reports.	After 3 reports, the system bans the user.	1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku,

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					Henrid Llesha, Servi Lila
BR_40	Administrator should be able to view the business-users, their last compliance report check, and their total number of negative report results.	Compliance reports are to ensure business transparency & honesty regarding pricing and products listed.	1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_41	Administrator should be able to update reports by uploading the PDF of the latest report, and the resulting conclusion.	The result of the report is indicated through a positive or negative button.	1	1.04.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_42	Administrator should be able to ban a business-user.	The option to ban a business becomes available after three non-compliances.	1	1.04.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_43	The system should alert the administrator of compliance reports that were conducted 1 year.		2	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_44	The system highlights compliance reports that were conducted longer than 6 months ago.		3	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila
BR_45	Administrator should be able to add a new administrator.	The administrator has to provide an email and a password.	1	27.03.2023	Viktoria Bashari, Kristian Gjinopulli, Lorna Gjidia, David Osoja, Arbi Parllaku, Henrid Lleshaj, Servi Lila

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BR_46	System should keep track of the administrator's operations.	For accountability purposes.  Keeping track of the edits they commit, the bans they issue, the new administrators they enter, etc.	2	02.04.2023	Viktoria Bashari, Lorna Gjidia, David Osoja, Kristian Gjinopulli, Arbi Parllaku, Henrid Lleshaj, Servi Lila
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## 4. Software Design

### 4.1 User scenarios

#### Individual

##### US\_I\_01: Individual registers on the platform

1. User clicks on "Sign up" button.
2. User clicks on "Personal use" option.
3. User writes in username, email, password, and confirmation password.
4. User confirms the registration by clicking "Submit" button.
5. System validates the input and sends an account verification email.
6. User clicks link in verification email.
7. User is directed to homepage, and registration is completed.

##### US\_I\_02: Individual logs in

1. User clicks on "Sign in" button.
2. User writes in their email and password.
3. User clicks "OK" button.
4. System verifies credentials.
5. User is directed to the homepage.

##### US\_I\_03: Individual views available listings

1. User clicks on homepage button on navigation bar.
2. System presents an activity feed with "Personal", "Businesses", "Charities" as different perspectives for listings.
3. User can click on "All", "Food", "Clothes", "Books", "Miscellaneous" options to filter product listings, and select dates to filter volunteer listings by timeframe.

##### US\_I\_04: Individual sends a request to a product listing

1. User clicks on a listing.
2. System shows the listing's photo, description, and other potential attributes.
3. User clicks on "Send request" button.
4. System shows a messaging interface between the user and the listing owner.
5. User can send message to listing owner.

##### US\_I\_05: Individual sends a request to a volunteer listing

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1. User clicks on homepage.
2. User selects the “Charities” perspective.
3. User clicks on a listing.
4. System shows the listing’s information (duty to be performed, and timespan of the task).
5. User clicks “Send request” button.

### **US\_I\_06: Individual creates a product listing**

1. User clicks on upload button on navigation bar.
2. User fills in form with inputs for product photo, title, description, listing timespan, and pick-up location.
3. User selects the product category
4. User clicks on “Submit” button.

### **US\_I\_07: Individual edits a product listing**

1. User clicks on profile button on navigation bar.
2. User clicks on “My listings” option.
3. User clicks on a listing.
4. User clicks on “Edit” button.
5. System shows the listing creation form, with the fields auto-populated with the current data.
6. User changes data.
7. User clicks on “Submit” button.

### **US\_I\_08: Individual deletes a product listing**

1. User clicks on profile button on navigation bar.
2. User clicks on “My listings” option.
3. User clicks on a listing.
4. User clicks on “Delete” button.
5. System shows an alert asking for confirmation through an “OK” button.
6. User presses “OK” button.

### **US\_I\_09: Individual gets a request on their listing**

1. User clicks on requests button on navigation bar.
2. User selects the listings perspective.
3. User clicks on a message.
4. System shows messaging interface between requester and user.
5. System shows “Accept” and “Deny” buttons.

### **US\_I\_10: Individual sends donation offer to charity**

1. User clicks on donate button on navigation bar.
2. User selects a charity.
3. User fills in form with inputs for product photo, title, description.
4. User selects between drop-off or pick-up.
  - a. If drop-off is selected, user selects one of the charity’s drop-off locations.

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- b. If pick-up is selected, user selects pick-up location.
5. User presses the “Submit” button.

### **US\_I\_11: Individual's donation offer to a charity is rejected**

1. User clicks on profile button on navigation bar.
2. User clicks on “Donations” option.
3. User clicks on donation with red dot.
4. System shows an alert asking if the user wants to list the product on the app.
5. If the user clicks “OK”, they're taken to listing creation, with the form auto-populated with the existing information.
6. If the user clicks “Cancel”, the donation is removed.

### **US\_I\_12: Individual's volunteer request is accepted**

1. User receives a push notification with the name of the listing and the positive status.

### **US\_I\_13: Individual's business order is rejected**

1. User receives a push notification with the with the name of the product listing and its negative status.

### **US\_I\_14: Individual reports a user**

1. User clicks on the profile picture of a user on a listing or message conversation.
2. System shows the other user's profile.
3. User clicks on the flag button in the header.
4. User selects reporting reason.
5. User clicks “Submit” button.

### **US\_I\_15: Individual reports a listing**

1. User clicks on a listing.
2. User clicks on the flag button in the header.
3. User selects reporting reason.
4. User clicks “Submit” button.

### **US\_I\_16: Individual rates a user**

1. User clicks on the profile picture of a user on a listing or message conversation.
2. User leaves a rating based on a 5-star rating scale.

### **US\_I\_17: Individual gets a donation's receipt**

1. User clicks on profile button on navigation bar.
2. User clicks on “Donations” option.
3. System shows the donations received by the user.
4. User clicks on the download button of a donation that's been received.
5. System pushes a download of a PDF file of the donation receipts generated by each accepted donation.

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### **Business manager**

#### **US\_BM\_01: Manager registers business in the app**

1. Manager clicks on “Sign up” button.
2. Manager clicks on “Business” option.
3. Manager writes in their business name, phone number, email.
4. Manager confirms the registration by clicking “Submit” button.
5. System sends an account verification email.
6. Manager clicks link in verification email.
7. System directs manager to homepage, and prompts user to enter the business’ location.
8. Manager fills in the information, and registration is completed.

#### **US\_BM\_02: Manager logs in**

1. Manager clicks on “Sign in” button.
2. Manager writes in their business email and password.
3. Manager clicks “OK” button.
4. System verifies credentials and sends an email with a temporary login code.
5. Manager enter the login code.
6. Manager is directed to the homepage.

#### **US\_BM\_03: Manager creates a product listing**

1. Manager clicks on upload button on navigation bar.
2. Manager fills in form with inputs for product photo, description, and pick-up timeframe.
3. If the product is food-based, manager checks the “Food” option, and fills in the ingredients and allergens.
4. Manager clicks on “Submit” button.

#### **US\_BM\_05: Manager cancels a listing**

1. Manager clicks on listing button on navigation bar.
2. Manager clicks on a listing.
3. Manager clicks the “Cancel” option.
4. Manager selects the number of days to temporarily disable listing.

#### **US\_BM\_06: Manager receives an order**

1. Manager clicks on the red bell button on the right of the header.
2. Manager clicks on new order notification.
3. Manager is directed to the “Requests” perspective of the listings section.
4. Manager sees new order with the listing name, and order OTP.

#### **US\_BM\_07: Manager rejects an order**

1. Manager clicks on listing button on navigation bar.
2. Manager selects requests perspective.
3. Manager clicks on an order.
4. System shows alert box, asking for rejection confirmation.
5. Manager clicks “Confirm”.



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### **US\_BM\_08: Manager sends donation offer to charity**

1. Manager clicks on donate button on navigation bar.
2. Manager selects a charity.
3. Manager fills in form with inputs for product photo, title, description.
4. Manager selects between drop-off or pick-up.
  - a. If drop-off is selected, manager selects one of the charity's drop-off locations.
  - b. If pick-up is selected, manager selects pick-up location.
5. Manager presses the "Submit" button.

### **US\_BM\_09: Manager's donation offer to a charity is rejected**

1. Manager clicks on profile button on navigation bar.
2. Manager clicks on "Donations" option.
3. Manager clicks on donation with red dot.
4. System shows an alert asking if the manager wants to list the product on the app.
5. If the manager clicks "OK", they're taken to listing creation, with the form auto-populated with the existing information.
6. If the manager clicks "Cancel", the donation is removed.

### **US\_BM\_10: Manager gets a donation's receipt**

1. Manager clicks on profile button on navigation bar.
2. Manager clicks on "Donations" option.
3. System shows the donations received by the user.
4. Manager clicks on the download button of a donation that's been received.
5. System pushes a download of a PDF file of the donation receipts generated by each accepted donation.

### **US\_BM\_11: Manager views revenue statistics**

1. Manager clicks on homepage button on navigation bar.
2. System shows total revenue, and most popular listings.
3. Manager can select "Yearly" or "Monthly" filters to see revenue statistics.

### **Charity organization manager**

#### **US\_COM\_01: Manager creates an account**

1. Manager clicks on "Sign up" button.
2. Manager clicks on "Charity" option.
3. Manager writes in their organization name, phone number, email, and organization verification form.
4. Manager confirms the registration by clicking "Submit" button.
5. System sends an account verification email.
6. Manager clicks link in verification email and is directed to a form.
7. Manager fills input for organization location, pick-up locations, and EIN number.
8. Manager clicks "Ok" button, is directed to homepage, and registration is completed.

## **Goods Donation Facilitating System Requirements Specification**

### **US\_COM\_02: Manager logs in**

1. Manager clicks on “Sign in” button.
2. Manager writes in their organization email and password.
3. Manager clicks “OK” button.
4. System verifies credentials and sends an email with a temporary login code.
5. Manager enter the login code.
6. Manager is directed to the homepage.

### **US\_COM\_03: Manager views donation offer**

1. Manager clicks on donations button on navigation bar.
2. Manager can click on “Pick-up” or “Drop-off” options to filter donation offers.

### **US\_COM\_04: Manager accepts a donation offer**

1. Manager clicks on donations button on navigation bar.
2. Manager clicks on a donation.
3. System shows the information of the product offered (photo and description), along with an “Accept” and “Reject” option.
4. Manager clicks “Accept”.

### **US\_COM\_05: Manager creates a volunteer listing**

1. Manager clicks on listings button on navigation bar.
2. Manager clicks “Add” button.
3. Manager fills in form with inputs for duty title, description, timeframe, and number of people they are looking for.
4. Manager clicks “Ok”.

### **US\_COM\_06: Manager views volunteer requester’s in-app volunteering history**

1. Manager clicks on volunteers button on navigation bar.
2. Manager selects “Requests” perspective.
3. Manager clicks on a request.
4. System shows requester’s username, email, past in-app volunteering experiences along with their individual rating

### **US\_COM\_07: Manager accepts volunteer request**

1. Manager clicks on volunteers button on navigation bar.
2. Manager selects “Requests” perspective.
3. Manager clicks on a request.
4. Manager clicks “Accept” button.
5. Manager is directed to requester’s email address for further communications.

### **US\_COM\_08: Manager views in-app volunteers**

1. Manager clicks on volunteers button on navigation bar.
2. Manager selects “Volunteers” perspective.
3. Manager can select “Ongoing” or “Finished” to filter results.

## **Goods Donation Facilitating System Requirements Specification**

### **US\_COM\_09: Manager rates a volunteer (only ones that have finished)**

1. Manager Manager clicks on volunteers button on navigation bar.
2. Manager selects "Volunteers" perspective.
3. Manager clicks on a volunteer whose marked as "Finished".
4. Manager leaves a rating based on a 5-star rating scale.

### **Platform administrator**

#### **US\_PA\_01: Administrator logs in (describe the ui essentially, add totals of rev from shop sales)**

1. Administrator clicks on "Sign in" button.
2. Administrator writes in their organization email and password.
3. Administrator clicks "OK" button.
4. System verifies credentials and sends an email with a temporary login code.
5. Administrator enter the login code.
6. Administrator is directed to the homepage.

#### **US\_PA\_02: Administrator adds another administrative user.**

1. Administrator clicks profile button on navigation bar.
2. Administrator selects "Add administrator" option.
3. System sends the user an OTP email, and prompts the user to enter their password and the OTP for confirmation.
4. Administrator fills the prompt and selects "Ok".
5. System verifies the information and shows the user a form.
6. Administrator fills in form input for new user's email and password.

#### **US\_PA\_03: Administator evaluates a user report**

1. Administrator clicks on moderation button on navigation bar.
2. Administrator selects the "Reports" perspective.
3. Administrator clicks on a report.
4. System shows the reporting user's username, their reason for the report, and the offending user's username.
5. Administrator can select "Accept" or "Reject".

#### **US\_PA\_04: Administrator moderates listings**

1. Administrator clicks on moderation button on navigation bar.
2. Administrator selects the "Feed" perspective.
3. Administrator is shown the latest unmoderated listing.
4. Administrator selects "Accept" or "Reject", and is shown a new listing.

#### **US\_PA\_05: Administrator checks in a new compliance report**

1. Administrator clicks on regulation button on navigation bar.
2. System shows the businesses registered on the app, the date of their last compliance report check, and their total number of negative report results.

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- a. If the business' number of negative report result is greater than 3, it displays a "Ban" option next to their name.
3. Administrator clicks a business.
4. System shows the business' name, a link to their last compliance report, their total number of negative report results, and a form.
5. Administrator fills in form input for new report PDF file, enters date of report, and selects "Positive" or "Negative" depending on the result of the report.
6. Administrator clicks "Submit".

### **US\_PA\_06: Administrator bans a business-based user**

1. Administrator clicks on regulation button on navigation bar.
2. Administrator clicks the "Ban" option next to a business' name.
3. System prompts the user to enter their password.
4. Administrator enters their password.
5. System verifies the input, and bans the business if the input is correct.

# Goods Donation Facilitating System Requirements Specification

## 4.2 ERD diagram

