
DevJam

ConnectMe
Use-case Specification
Version 2.0

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Use-case Specification (Small Project)	Date: 01/08/2023

Revision History

Date	Version	Description	Author
21/07/2023	1.0	First Version of Use-case Specification	DevJam
01/08/2023	2.0	Revised Version of Use-case Specification	DevJam

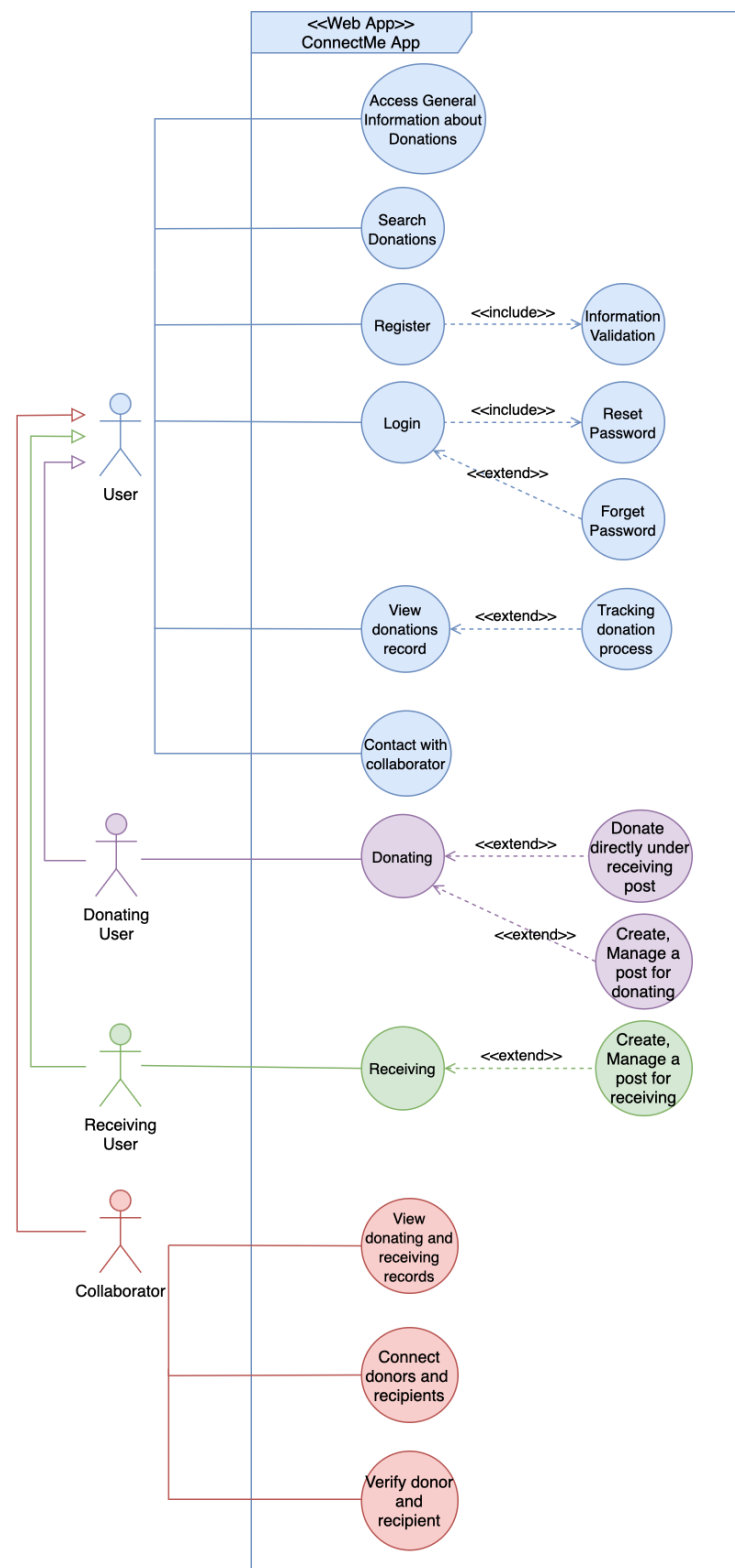
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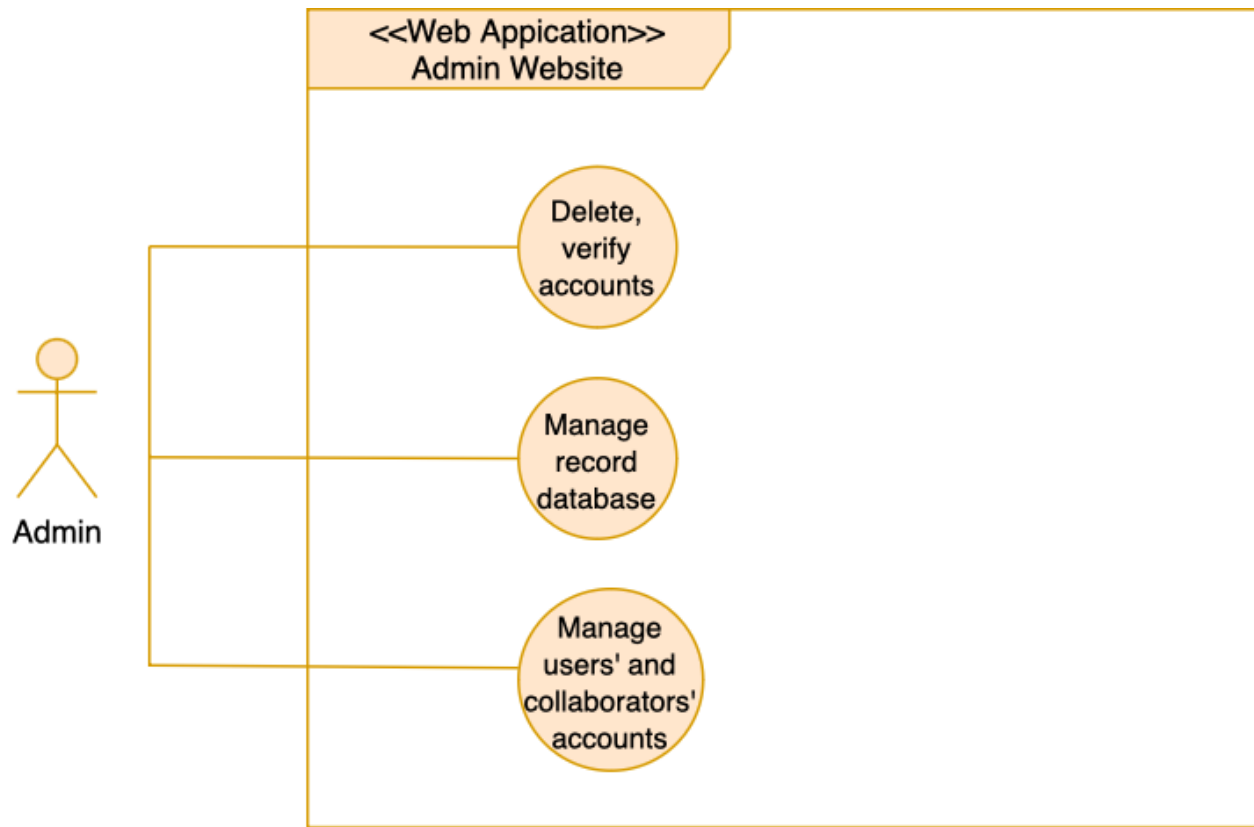
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1. UML Use-case diagram



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2. Use case specification

2.1 Authorization

2.1.1 Register

Use Case name	Register Account
Summary Description	This use case allows user to register for account
Actor(s)	Donating user, Receiving user, Collaborator, Admin
Pre-Condition	1. User accesses the system 2. User has not registered in the system before
Post-Condition(s)	1. The user account has been created successfully 2. The user's data has been stored in the system 3. System sends an automatic email to user confirming that their account has been created successfully
Basic Path	1. User navigates the Registration page

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	<ol style="list-style-type: none"> 2. System displays the Registration page 3. System asks user to provide personal information (name, email, phone number) 4. User enters personal information 5. System validates user's personal information 6. System asks user to provide account credentials (username, password) 7. User enters account credentials 8. System validates user account credentials 9. System creates the user account 10. System stores user account in database 11. System sends confirmation email which contains a button for user to click 12. User clicks the confirmation button in the email 13. User is redirected to the Homepage
Alternative Paths	<ol style="list-style-type: none"> 4a. The email is invalid <ol style="list-style-type: none"> 1. System displays an error message 2. System asks user to enter a valid email address 4b. The phone number is invalid <ol style="list-style-type: none"> 1. System displays an error message 2. System asks user to enter a valid phone number 7a. The username is already taken <ol style="list-style-type: none"> 1. System displays an error message 2. System asks user to enter a different username 7b. The password does not meet security requirement <ol style="list-style-type: none"> 1. System displays an error message 2. System provides information about the requirements (minimum length, required characters) 3. System asks user to enter the password again 11a. User does not click the confirmation button in the mail within the time limit of 24 hours <ol style="list-style-type: none"> 1. System sends a reminder email which contains a new confirmation button for user to click 2. System deactivates the user account if user does not click on the button in the reminder mail within the next 24 hours

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2.1.2 Login

Use Case name	Login Account
Summary Description	This use case allows user to login to account
Actor(s)	Donating user, Receiving user, Collaborator, Admin
Pre-Condition	1. User already has an account 2. User account has not been deactivated by the system
Post-Condition(s)	1. User has logged in successfully 2. User has been redirected to the Main Dashboard
Basic Path	1. User navigate the Login form 2. System displays the Login form 3. System asks user to enter username and password 4. User enters username and password 5. User presses the 'Login' button 6. System verifies the username and password 7. System sends a success notification to user 8. User is redirected to the Main Dashboard
Alternative Paths	4a. Username is incorrect or does not exists, or password is incorrect 1. System displays an error message 2. System asks user to enter the username and password again 4b. User forgot password

2.1.3 Forgot password

Use Case name	Forgot Password
Summary Description	This use case allows user to reset their password if they have forgotten it
Actor(s)	Donating user, Receiving user, Collaborator, Admin

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Pre-Condition	<ol style="list-style-type: none"> 1. User already has an account 2. User account has not been deactivated by the system
Post-Condition(s)	<ol style="list-style-type: none"> 1. User's account has been updated with a new password 2. User has been redirected to the Login form to log in to the system with the new password 3. System sends an automatic email to user confirming that their password has been reset successfully
Basic Path	<ol style="list-style-type: none"> 1. User clicks the 'Forgot Password' link on the Login form 2. System displays the 'Forgot Password' page 3. System asks user to enter their email 4. User enters their email 5. System validates the user's email 6. System sends an email with a link to reset the password to user 7. User receives the email and clicks the link to reset password 8. User is redirected to the 'Forgot Password' page 9. System asks user to enter new password 10. User enters new password 11. System validates the new password 12. User enters the new password again 13. User presses the 'Confirm' button 14. System confirms the new password 15. System updates user's account with new password 16. System sends notification that user has reset password successfully 17. User is redirected to the Login form
Alternative Paths	<ol style="list-style-type: none"> 4a. Incorrect email address <ol style="list-style-type: none"> 1. System displays an error message 2. System asks user to provide a valid email 7a. User does not click the link in the mail within the time limit of 24 hours <ol style="list-style-type: none"> 1. System sends a reminder email which contains a new link for user to click 2. System invalidates the new link if user does not click within the new time limit

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	<p>10a. Password does not meet security requirement</p> <ol style="list-style-type: none"> 1. System displays an error message 2. System provides information about the requirements (minimum length, required characters) 3. System asks user to enter the password in correct format <p>12a. The passwords do not match</p> <ol style="list-style-type: none"> 1. System displays an error message 2. System asks user to enter the latter password again
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2.1.4 Change password

Use Case name	Change Password
Summary Description	This use case allows user to reset their password
Actor(s)	Donating user, Receiving user, Collaborator, Admin
Pre-Condition	<ol style="list-style-type: none"> 1. User already has an account 2. User account has not been deactivated by the system 3. User is already logged in to their account
Post-Condition(s)	<ol style="list-style-type: none"> 1. User's account has been updated with a new password 2. System sends an automatic email to user confirming that their password has been changed successfully
Basic Path	<ol style="list-style-type: none"> 1. User clicks the 'Change Password' option in the account settings 2. User is redirected to the 'Change Password' page 3. System retrieves the user's email from their account information 4. System sends an email to user with a link to change the password 5. User receives the email and clicks the link to change password 6. User is redirected to the 'Change Password' page 7. System asks user to enter their current password User enters their current password

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	8. System validates the user's current password 9. System asks user to enter the new password 10. User enters the new password 11. System validates the new password 12. System asks user to enter the new password again 13. User enters the new password again 14. System confirms the new password 15. System updates the user's account with the new password 16. System displays a success message to user
Alternative Paths	5a. User does not click the link in the mail within the time limit of 24 hours 1. System sends a reminder email which contains a new link for user to click 2. System invalidates the new link if user does not click within the new time limit 8a. Incorrect password 1. System displays an error message 2. System asks user to enter their current password again 3. If a user provides 5 incorrect passwords in a row, the system will lock the user's account for 24 hours. 11a. Password does not meet security requirement 1. System displays an error message 2. System provides information about the requirements (minimum length, required characters) 3. System asks user to enter the password in correct format 14a. The passwords do not match 3. System displays an error message 4. System asks user to enter the latter password again

a. 2.2. View donating and receiving records

Use Case name	View Record
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Summary Description	This use case allows users to view donating and receiving records
Actor(s)	Donating user, Receiving user
Pre-Condition	1. The user's account exists in the system 2. User has already logged in into the system
Post-Condition(s)	1. User has been presented with their donation and receiving records
Basic Path	1. Donors or receivers log in to their account on the donating website. 2. User navigates to the "Donation History" or "Receiving History" section of their account. 3. The website displays a list of all donations made or received, including the date, amount, and recipient. 4. User can filter the records by date range, donation amount, or recipient name. 5. User can click on individual donation records to view more details, such as the purpose of the donation or the impact it had.
Alternative Paths	2a. The user has not made any donations or received any donations 1. The system displays a message indicating that there are no records to show. 3a. If the user encounters any technical issues while viewing their records 1. The system displays an error message 2. The system prompts the user to try again later or contact customer support.

b. 2.3. Tracking donation process

Use Case name	Track Donation Process
Summary Description	The use-case is about allowing donors to track the process

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	of their donation on the website. This feature will keep donors informed about the status of their donation and provide transparency into how their donation is being used.
Actor(s)	Donors, Collaborators, Admin
Pre-Condition	<ol style="list-style-type: none"> 1. Donors must have made a donation on the donating website. 2. The website must have a system in place to track the donation process.
Post-Condition(s)	<ol style="list-style-type: none"> 1. Donors have been presented with a detailed view of the progress of their donation through various stages of the donation process.
Basic Path	<ol style="list-style-type: none"> 1. Donor logs in to their account on the donating website. 2. Donor navigates to the "Track Donation" section of their account. 3. The website displays the current status of the donation, such as "Received" or "In Process". 4. If the donation is in process, the website shows additional details about the current stage of the process, such as "Being reviewed by administrators" or "Ready for distribution". 5. Donor can see updates to the status of their donation as it moves through the different stages of the process.
Alternative Paths	<ol style="list-style-type: none"> 3a. The donor encounters technical issues while tracking their donation <ol style="list-style-type: none"> 1. The system displays an error message 2. The system prompts the user to try again later or contact customer support.

c. **2.4. Connect donors and recipients**

Use Case name	Connect Donors and Recipients
Summary Description	The use-case is about enabling collaborators to connect

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	donors with recipients on the website. This feature will allow donors to learn more about the impact of their giving and establish a more personal connection with the recipients.
Actor(s)	Collaborators
Pre-Condition	<ol style="list-style-type: none"> Both donors and recipients must have accounts on the donating website. Both donors and recipients have published donating and receiving posts of the same items.
Post-Condition(s)	<ol style="list-style-type: none"> System has marked Donor and Recipient as 'matched' System has established connection between Donor and Recipient
Basic Path	<ol style="list-style-type: none"> Collaborator logs in to their account on the website. Collaborator navigates to the "Connect Donors with Recipients" section. The system displays a list of recipients whose receiving posts contain the same items as that from donating posts of the donor. Collaborator selects a recipient to connect with a donor Collaborator sends donors a message about the recipients to connect. The donor accepts the request The system marks the donor and recipient as 'matched' System establishes connection between Donor and Recipient
Alternative Paths	<p>3a. The donor has not made any donations or the recipient has not received any donations</p> <ol style="list-style-type: none"> The system displays a message indicating that there will be no recipients to connect with. <p>5a. If the recipient declines the request or does not respond, the donor will not be able to connect with the recipient.</p> <p>5b. If the donor encounters any technical issues while connecting with a recipient</p> <ol style="list-style-type: none"> The system displays an error message

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	2. The system prompts the user to try again later or contact customer support.
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d. 2.5. Donate directly under receiving post

Use Case name	Donate directly under Receiving Post
Summary Description	This use case allows donors to donate directly to the receivers
Actor(s)	Donors
Pre-Condition	<ol style="list-style-type: none"> 1. The donating website is accessible and functional. 2. The donor has already registered and logged in to the donating website.
Post-Condition(s)	<ol style="list-style-type: none"> 1. System has created a Donation record for future verification
Basic Path	<ol style="list-style-type: none"> 1. The donor accesses the donating website and navigates to a specific receiving post that has a call-to-action for direct donations. 2. The system displays the post content along with a "Donate" button. 3. The donor clicks on the "Donate" button. 4. The system presents a donation form with options to enter the donation amount and select a donation method. 5. The donor enters the desired donation amount and selects a donation method (e.g., credit card, shipping products, ...). 6. The donor submits the donation form for processing. 7. The system securely processes the donation and creates a record for future verification. 8. Upon successful processing, the system displays a confirmation message indicating that the donation was successful.
Alternative Paths	4a. Invalid donation information:

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	<ol style="list-style-type: none"> 1. If the donor enters invalid donation information, the system displays an error message prompting the donor to enter valid information. <p>6a. Canceling donation:</p> <ol style="list-style-type: none"> 1. At any point before submitting the donation form, the donor can choose to cancel the donation. If canceled, the system returns the donor to the receiving post page without processing the donation. <p>4b. 7a. Technical issues:</p> <ol style="list-style-type: none"> 1. If there is a technical issue during the donation process, such as a server error, the system displays an error message informing the donor to try again later or contact support.
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e. **2.6. Create, Edit, and Remove a post for donating**

Use Case name	Create, Edit, and Remove a Donating Post
Summary Description	This use case allows donors to create posts making donations, and they have the ability to edit or remove their posts as needed.
Actor(s)	Donor
Pre-Condition	<ol style="list-style-type: none"> 1. The website is accessible and functional. 2. The donor has already registered or logged in to the donating website.
Post-Condition(s)	<ol style="list-style-type: none"> 1. The post for donating has been successfully created, edited, or removed as per the donor's actions. 2. System has saved data about the post on database
Basic Path	<ol style="list-style-type: none"> 1. The donor logs in to the donating website and accesses their profile/main screen. 2. The donor clicks on the "Create Post"/"Make donation" button to create a new post for donations. 3. The system presents a form where the donor can enter details about their donation product, aim receiver, and

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	<p>other relevant information.</p> <p>4. The donor fills in the required details and submits the form to create the post.</p> <p>5. The system saves the post and displays it on the website, visible to potential receivers or matchings from collaborators.</p>
Alternative Paths	<p>2a. Edit post:</p> <p>1. Instead of creating posts, the donor can navigate to their profile, choose an existing record, and click on the 'Edit' button.</p> <p>2. The system presents a pre-filled form with the existing post details, allowing the donor to make changes.</p> <p>3. The donor updates the desired information and submits the form to save the changes.</p> <p>4. The system updates the post with the edited information.</p> <p>2b. Remove post :</p> <p>1. Instead of creating posts, the donor can navigate to their profile, choose an existing record, and click on the 'Remove' button.</p> <p>2. The system displays a confirmation message asking for confirmation to delete the post.</p> <p>3. The donor confirms the deletion, and the system removes the post from the website.</p> <p>3a. Cancel Posting/ Editing/ Removing</p> <p>1. At any point before submitting the post, edit, or removal form, the donor can choose to cancel the action. If canceled, the system returns the donor to their profile/main screen without making any changes.</p> <p>4a. 5a. Technical Issue</p> <p>1. If there is a technical issue while creating, editing, or removing the post, such as server error or database problem, the system displays an error message informing the donor to try again later or contact support.</p>

f. 2.7 Create, Edit, Remove a post for receiving

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Use Case name	Create, Edit, Remove a Receiving Post
Summary Description	This use case allows receivers to create posts making donations, and they have the ability to edit or remove their posts as needed.
Actor(s)	Receiver
Pre-Condition	<ol style="list-style-type: none"> 1. The website is accessible and functional. 2. The receiver has already registered or logged in to the donating website.
Post-Condition(s)	<ol style="list-style-type: none"> 1. The post for receiving has been successfully created, edited, or removed as per the recipient's actions. 2. System has saved data about the post on database
Basic Path	<ol style="list-style-type: none"> 1. The receiver logs in to the donating website and accesses their profile/main screen. 2. The donor clicks on the "Create Post"/"Receive" button to create a new post for receiving. 3. The system presents a form where the receiver can enter details about their cause, donation goal, location, and other relevant information. 4. The receiver fills in the required details and submits the form to create the post. 5. The system saves the post and displays it on the website, visible for donors or matchings from collaborators.
Alternative Paths	<p>2a. Edit post</p> <ol style="list-style-type: none"> 1. Instead of creating posts, the receiver can navigate to their profile, choose an existing record, and click on the 'Edit' button. 2. The system presents a pre-filled form with the existing post details, allowing the receiver to make changes. 3. The receiver updates the desired information and submits the form to save the changes. 4. The system updates the post with the edited information.

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	<p>2b. Remove post</p> <ol style="list-style-type: none"> 1. Instead of creating posts, the receiver can navigate to their profile, choose an existing record, and click on the 'Remove' button. 2. The system displays a confirmation message asking for confirmation to delete the post. 3. The receiver confirms the deletion, and the system removes the post from the website. <p>3a. Cancel Posting/ Editing/ Removing</p> <ol style="list-style-type: none"> 1. At any point before submitting the post, edit, or removal form, the receiver can choose to cancel the action. If canceled, the system returns the receiver to their profile/main screen without making any changes. <p>4a. 5a. Technical Issue</p> <ol style="list-style-type: none"> 1. If there is a technical issue while creating, editing, or removing the post, such as server error or database problem, the system displays an error message informing the receiver to try again later or contact support.
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g. 2.8. Search Donations

Use Case name	Search Donations
Summary Description	This use case allows users to search for donations' post
Actor(s)	User
Pre-Condition	<ol style="list-style-type: none"> 1. User accesses the website 2. User logged in to the system 3. User is on the Search page
Post-Condition(s)	<ol style="list-style-type: none"> 1. User has received a list of matching donation posts or a message indication no results were found
Basic Path	<ol style="list-style-type: none"> 1. User accesses the website and search functionality 2. User enters search criteria (keywords, category, location, data range) 3. System processes the search query and presents

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	matching donation posts 4. User view the search results
Alternative Paths	2a. Invalid search criteria 1. The system displays an error message if the user submits the search request without valid criteria 3a. No matching results 1. The system displays a message indicating no matching donation posts 1a. 2b 3b. 4a. System error 1. The system shows an error message if an unexpected issue occurs during the search process 2. The technical team is notified for resolution

h. 2.9. Verify donor and recipient's account

Use Case name	Verify Donor and Recipient's account
Summary Description	This use case ensures the authenticity and credibility of donors and recipients
Actor(s)	Donating user, Receiving user, Collaborator, Admin
Pre-Condition	1. Donors and recipients must have registered accounts on the website
Post-Condition(s)	1. User account has been marked as 'verified' 2. System has updated that on database
Basic Path	1. Donors and recipient navigates to the website and initiates the account verification process 2. The system prompts the user to complete the necessary verification steps, which may involve providing additional information or verifying their email or phone number 3. User completes the verification process as per the website's requirements 4. The system verifies the user's account details 5. The system marks the account as "verified"

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Alternative Paths	<p>4a. Account verified failure</p> <ol style="list-style-type: none"> 1. If the verification process fails, the system informs the user about the reason for failure and provides guidance to resolve the issue (e.g., re-verification or contacting support) <p>4b. Delayed verification</p> <ol style="list-style-type: none"> 1. In case of delays in the verification process, the user may experience temporary limitations in using certain donation features until their account is fully verified <p>2a. 3a. Account suspension</p> <ol style="list-style-type: none"> 1. If the user fails to complete the verification process within a specified timeframe or violates website policies, their account may be suspended until the issue is resolved or resolved by support
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i. **2.10. Manage users' and collaborators' accounts**

Use Case name	Manage users' and collaborators' accounts
Summary Description	This use case allows administrator to oversee and control user accounts and collaborator access, ensuring proper account management and security
Actor(s)	Administrator (Admin)
Pre-Condition	<ol style="list-style-type: none"> 1. The website must have an administrative interface for user management 2. The admin must be logged into their administrative account
Post-Condition(s)	<ol style="list-style-type: none"> 1. System has saved the changes to database
Basic Path	<ol style="list-style-type: none"> 1. The admin accesses the administrative interface of the website 2. The admin navigates to the "User Management" section to manage user accounts 3. The admin can perform various action such as: <p>+ View a list of registered users/ collaborators and their</p>

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	<p>details</p> <ul style="list-style-type: none"> + Search for specific users/ collaborators by name, email, or other criteria + Add new users/ collaborators or remove existing user + Disable or enable user accounts + Edit users/ collaborators information (if allowed) like name, email, or role <p>4. The admin saves the change made in both user accounts and collaborator access</p> <p>5. System updates the database according to the changes made by admin</p>
Alternative Paths	<p>3a. Invalid actions</p> <p>1. If the admin attempts an unauthorized action (e.g., modifying another admin's account or deleting a vital collaborator), the system displays an error message and denies the request</p> <p>3b. Confirmation prompt</p> <ul style="list-style-type: none"> + For critical actions (e.g., deleting a user account or revoking a collaborator's access), the system may prompt the admin for confirmation before executing the action <p>1a. 2a. 3c. 4a. Error handling</p> <ul style="list-style-type: none"> + If an unexpected error occurs during account management, the system informs the admin and logs the error for further investigation. The changes are not applied until the issue is resolved