

Title: Development of a Donation Matching Platform for Charitable Associations

Abstract:

This project aims to develop an online donation matching platform tailored for charitable associations to efficiently manage and utilize surplus resources, particularly excess food from restaurants and events. The Donation Matching Platform (DMP) will be a web-based application accessible throughout charitable organizations, facilitating the donation process and enhancing resource distribution. Key functionalities include logging surplus resources, registering organization needs, matching donations with recipients, real-time tracking, and communication features.

Functional Components of the Project:

User Management:

Create, grant, revoke access, and delete users from the platform.

Resource Management:

Log surplus resources (food, clothing, etc.).

Register organization needs and preferences and details of organisation.

Donation Matching:

Match surplus resources with organization needs.

Assign donations to charitable associations.

Track donation status and resolution.

Search Functionality:

Find users, resources, and donations through search screens.

Reporting:

Generate reports on donations and resource utilization.

Levels of User Privileges:

Application Admin:

Full privileges across all functionalities.

Resource Admin:

Privileges for managing resources and donations within their designated area.

Users:

Privileges for accessing and managing donations and resources.

User Abilities:

Login and Password Management:

User authentication and password change functionalities.

View and Manage Donations:

View assigned donations and manage donation details.

Resource Management:

Access and manage resources and donation assignments.

Communication:

Communicate with other users and donors regarding donations and resource management.

Additional Functionalities:**Automated Email Notifications:**

Send email notifications to users upon donation assignment.

Component Management:

Add, remove, and mark components (resources) as active or closed.

Admin Privileges:

Application Admin can manage users, components, and user privileges.

The proposed Donation Matching Platform aims to streamline the donation process, enhance transparency, and maximize resource utilization, thereby empowering charitable associations to better serve their communities.

