**Food Wastage Application based on Django Python Application**

**ABSTRACT**

        Wasting food is a common problem in our society. Food waste management is crucial since it can improve our environmental and economic sustainability. We have identified the use of web technology to reduce food waste management , our proposed system develop an Django python application for allows public users to donate and share their foods and leftovers with people in need. This Django app will enable users to register, login, view items, add items, add items to cart, remove an item from the cart, and log out. This app is using the Mysql storage and real-time database. Any user in need can see all the food images donated by different users and add it to his or her cart. To transform the existing manual food donate system into an automate system. For the better management of Food wastage reduction  to improve efficiency. Django admin is most powerful parts of Django is its automatic admin interface. It reads metadata in your models to provide a powerful and production-ready interface that content producers can immediately use to start managing content on your site. Django is a web application framework written in Python programming language. It is based on MVT (Model View Template) design pattern.

**Software Requirements:**

Front-End  :  HTML5, CSS3, and JS  
Back-End   :  Python, MySQL 5.5  
Tool            :   XAMPP 7.4 – 64 bit  
Framework : Django 3.2.8

**Existing System**

* Many people tend to throw the leftover food at the end of the day even though the food is perfectly fine to be eaten, which means that huge amounts of food are wasted.
* While all that food is being wasted, some families can barely afford proper meals with their limited money.
* They don’t get enough nutrition due to the lack of having three meals in a day.
* Therefore, we decided to create our application to link the public with the unfortunate people, so instead of throwing the food, the unfortunate will be able to pick it up from the the food donor at the end of the day.

**Proposed System**

* Django web application technology is beneficial for food waste management.
* The application aims to encourage better food management.
* Our proposed solution should reduce food wastage by facilitating food sharing in Indian community using mobile technology.
* This work is an initial step toward designing a better system to reduce daily food waste. In the future, this web app could be enhanced more by adding the following features:
* Extending our web app to have many types of donating users either from organizations such as restaurants, or a family or single uses
* Adding the address facility to our web apps. The donating user should specify the address of the shared food.
* Adding the time and date of each meal shared by users

**System Modules**

**Admin**

* Login
* Customer Management
* Donor Management
* Request Approval
* Logout

**Customer**

* Register
* Login
* Search Donor
* Details
* Post Feedback
* Myprofile
* Logout

**Donor**

* Register
* Login
* View Application
* Update Status
* View Feedback
* Logout

**Module Description**

**Admin**

1.Login

     In log in page, admin can manage all information. They can update or edit any information.

2.Customer Management

    Admin will manage all the register users and approval

3.DonorManagement

    Admin will manage all the registered Donor and approve the mechanic

4.Request Approval

    Admin will see all the request request made by customers and assign the request to any Donor

**Customer**

1.Register

    User can register to Donor service  application

2.Login

    User can login to the Donor service application

3.Search Donor

    Customer can search the nearby Donor

4.Details

    User will fill the details of therir location

5.Post Feedback

    After the service user will post the feedback

6.Myprofile

    User will See their profile

**Donor**

1.Register

    Donor can register Food service application

2.Login

    Donor can login to the Food service application

3.View Application

    Donor can view the user application

4.Update status

    Donor can update the status of application

5.View Feedback

    Donor can view thw feedback about their work

**Flow Diagram**

