



Waste Food Management & Donation App

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Description:

- Wasting food is a common problem in our society. Food waste management is crucial since it can improve our environmental and economic sustainability. I have identified the use of web technology to reduce food waste management , I 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 SQLite 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 . This 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. Django is implemented in Python, which has excellent security track record.

MODULES:

User-(Food Donor/ Acceptor)

- Register
- Login
- Add/View All Food item
- Request for food
- Place the food order
- Check my order
- Create Your Food for donate and location
- Upload Food image
- Manage your Food data
- Delivery of item
- Check Sold Order
- Fund collection

Admin:

- View registration
- Edit ,Delete , Update all Data

Methodology

- This is a web application project used for reducing food wastage in day to day life.
- This use python Django framework for this project. Django is a web application framework written in Python programming language. It is based on MVT (Model View Template) design pattern
- Firstly , login and register the page for user information
- Add the food items and view food items
- User need food will give an request for food.
- Show available foods for donate and book the food needed.
- User who create food list for donate and give location
- Upload food images
- Next is to manage the food items ,that shows available and unavailable list.
- Next is to check the sold order
- Fund collection is the another main step in this project.

DEVELOPING ENVIRONMENT:

Hardware specification:

- System : Dual Core
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb
- RAM : 256 Mb.

Software specification:

- Operating System : Windows OS
- Front-End : HTML, CSS, and JS
- Back-End : Python, SQLite3
- IDE : visual studio
- Framework : Django 3.2.8

Table Design

Login:

Field	Type
Username	Varchar(30) NOTNULL
Password	Varchar(30) NOTNULL

Registration:

Field	TYPE
Username	Varchar(30)
password	Varchar(30)
First name	Varchar(30)
Last name	Varchar(30)
Email	Varchar(30)
address	Int (30)

Product:

Field	Type
Food type	Int(15)
quantity	int
date	Date null
description	Int(30)

PRODUCT BACKLOG:

	User Story ID	Priority<High/ Medium/ Low	Size(h ours)	Sprin t	Status/ Planned/ In progress /completed	Status/ Planned/ In progress /completed	Release goal
	1	low		1	completed	Register/ Login	For user information and login Within the system
	2	medium		2	completed	Add/View all food items	To view the food items for donate
	3	medium			progress	Request for food	users they can put a request for food if they needed.
	4	medium		3	planned	Place the food order	Order food
	5	medium			planned	Check my order	Check the ordered details
	6	hard			planned	Create Your Food for donate and location	For Donate food and make location
	7	medium		4	planned	Upload Food image	For upload images of food items
	8	hard			planned	Manage your Food data	to Manage the food details

USER STORY:

User story id	As a type of user	I want to perform some task	So that I can achieve some goal
1	user	Register/ Login	For user information and login With correct username,password
2	user	Add/View all food items	To view the food items for donate
3	user	Request for food	users they can put a request for food if they needed
4	user	Place the food order	Order food
5	user	Check my order	Check the ordered details
6	user	Create Your Food for donate and location	For Donate food and make location
7	user	Upload Food image	For upload images of food items
8	user	Manage your Food data	to Manage the food details
9	user	Check Sold Order	Make sold order unavailable
10	user	Fund collection	Collect fund for food

PROJECT PLAN:

User story id	Task name	Start date	End date	hours	status
1	Sprint 1	20/04/2022	29/05/2022	5	completed
2	sprint2	1/04/22	15/05/22	10	completed
3		16/05/22	29/06/22		progress
4	sprint3	1/06/22	9/06/22	15	planned
5		10/06/22	14/06/22		planned
6		15/06/22	17/06/22		planned
7	sprint4	19/06/22		20	planned
8					planned
9					planned
10					planned

SPRINT PLAN:

User story id	completion date	estimate hours	day1	day2	day3	day4	day5	day6	day7	day8	day9	day10	day11	day12
1	29/05		2	3										
2	15/05				5									
3	16/29					5								
4	9/05													
5														
6														
7														
8														
9														
10														
total		50	3	2	5	5	5	5	3	2	5	5	5	5