**Project Summary**

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CIS480: Software Development Capstone

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Project Name: Food Inventory Management System

Project Description

The basic features of the inventory system are users can register with the website, login the website, view dashboard, add a new food item, edit the existing item, view the list of items, delete an item from inventory, checkout the expiry statistics.

Project Tasks

Task 1: Set up the development environment

* Install Python 3.12, Python Django
* Configure Git and GitHub repository

Task 2: Design the application

* Create wireframes for food inventory system

Task 3: Develop the frontend

* Implement the UI using HTML, CSS, and JavaScript

Task 4: Develop the backend

Task 5: Implement authentication

* Authenticate the users using html form validation and DJango views

Task 6: Connect to a database

* Use the SQLite internal database for storing the details
* Design the models namely FoodItem, Recipe and Users

Task 7: Test the application

* Perform unit testing and integration testing for whole website
* Debug and fix issues

Task 8: Deploy the application

Task 9: Document the project

* Website is well documented with proper comments

Project Skills Learned

* Frontend development with HTML, CSS, and JavaScript
* Backend development with Python django
* User authentication and authorization
* Database management with SQLite
* Version control with Git and GitHub
* Agile development process
* Continuous integration and deployment (CI/CD)
* Writing documentation

Language Used

* HTML, CSS, JavaScript: For frontend development
* Python Django: For backend development
* SQLite: For database management

Development Process Used

* Agile Methodology: Emphasizing iterative development, continuous feedback, and collaboration.

Notes

* Ensure all dependencies are installed using `pip3 install django` before running the application.
* Use `python3 manage.py runserver` to run the server locally.

Link to Project

[dalton506085/FoodTracker](https://github.com/dalton506085/FoodTracker)