Inventory Management System

Documentation

Introduction

This Inventory Management System is a web application built using Flask, a Python web framework, for managing inventory. It allows users to add, view, delete, and modify items in the inventory.

Features

1. Add Items: Users can add items to the inventory by providing details such as item name, product ID, category, and quantity.

2. View Inventory: The application displays all items currently in the inventory, along with their details.

3. Delete Items: Users can delete items from the inventory if they are no longer needed.

4. Modify Quantity: Users can increment or decrement the quantity of items in the inventory.

5. Search: The application provides a search functionality, allowing users to search for items by their product ID.

Installation and Setup

1. Clone the Repository: Clone the repository to your local machine using the following command:

```
git clone <repository-url>
```

2. **Install Dependencies**: Navigate to the project directory and install the required dependencies using the following command:

```
pip install -r requirements.txt
```

3. **Configure Database**: Create a PostgreSQL database for the application and update the `SQLALCHEMY_DATABASE_URI` in `app.py` with your database URI.

4. Run the Application: Start the Flask application by running the following command:

```
python app.py
```

5. Access the Application: Open your web browser and navigate to `http://localhost:8000` to access the application.

Usage

- Adding Items: Fill out the form on the home page with the details of the item you want to add, and click the "Submit" button.

- Deleting Items: To delete an item, click the "Delete" button next to the item in the inventory list.

- Modifying Quantity: Click the "+" or "-" buttons next to an item to increment or decrement its quantity, respectively.

- Searching Items: Enter the product ID of the item you want to search for in the search bar and press Enter.

Technologies Used

- Python

- Flask

- SQLAlchemy

- HTML

- Bootstrap

Contributors

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ID Number: PYDEVINT-240324-XT0036