# TASK-2(DROAME PORTAL APP)

Github link: https://github.com/Mo-hit789/Droame_portal

## Overview of the Web App:

The web app is a portal designed for Droame's operators to manage customer bookings for autonomous aerial videography services. The app allows operators to create, edit, and delete bookings of a particular customer, as well as create and edit customer details. The database schema for the web app is designed to store customer and booking details in the backend tables.

## Technologies Used:

The web app is built using **Flask**, a high-level Python web framework that encourages rapid development and clean, pragmatic design. **HTML**, **CSS**, **Bootstrap** and **JavaScript** are used for the front-end of the web app. The web app uses the **MySQL** database to store customer and booking details.

## Database Schema Design:

The database schema is designed to store customer and booking details in the backend tables. The schema consists of two main tables: the customer table and the booking table.

The customer table includes the following fields:

- customer_id: unique identifier for each customer
- customer_name: name of the customer
- email: email address of the customer
- phone_number: phone number of the customer
- location_id: identifier for the location where the booking was made
- drone_shot_id: identifier for the type of drone shot booked
- created_time: time when the customer was created

## Flow of the Web App:

The web app flow is designed to make creating and managing drone shot bookings super easy for operators. The main sections of the web app are the customer section and the booking section.

In the customer section, operators can:

- View a list of all customers
- Add a new customer
- Edit the details of an existing customer
- Delete a customer

In the booking section, operators can:

1. View a list of all bookings
2. Add a new booking
3. Edit the details of an existing booking
4. Delete a booking

**DETAIL FLOW OF WEB APP :-**

1. When an operator opens the Droame portal, they will be presented with a dashboard showing a list of all customers.
2. From the dashboard, the operator can add a new customer by clicking on the "Add Customer" button.
3. The operator will be redirected to a form where they can enter the customer details such as customer name, email, phone number, and other relevant information.
4. After submitting the customer details, the operator will be redirected back to the dashboard, and the new customer will be added to the list of customers.
5. To create a booking for a customer, the operator can click on the customer's name from the dashboard to view their details.
6. From the customer details page, the operator can click on the "New Booking" button to create a new booking for the customer.
7. The operator will be redirected to a form where they can enter the details of the booking, such as location, drone shot type, and other relevant information.
8. After submitting the booking details, the operator will be redirected back to the customer details page, and the new booking will be added to the list of bookings for that customer.
9. The operator can edit or delete a booking by clicking on the booking from the customer details page.
10. Similarly, the operator can edit or delete a customer by clicking on the customer from the dashboard.

## How to Run the Application:

To run the application, follow these steps:

1. Clone the GitHub repository
2. Create a virtual environment and activate it
3. Install the dependencies by running pip install -r requirements.txt
4. Create the database by running python manage.py migrate
5. Start the web app by running python manage.py runserver

## Scope of the Project:

The goal of the project is to provide Droame's operators with a portal to manage customer bookings for autonomous aerial videography services. The web app is designed to be easy to use and allows operators to create, edit, and delete bookings of a particular customer, as well as create and edit customer details.

Future enhancements to the web app could include:

- Integration with Droame's payment system to allow operators to process payments for bookings
- Integration with a third-party weather API to provide weather information for the location of the booking
- Integration with a third-party mapping API to provide a map view of the location of the booking

Overall, the web app is designed to be scalable and flexible, allowing for easy integration of new features as Droame's business needs evolve.
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