**Algorithm:**

**1. User Management:**

a. User Registration:

- Collect user details like name, email, phone number, and address.

- Validate and store user information in a database.

b. User Authentication:

- Allow users to log in using their credentials (email and password).

- Implement security features like password hashing and authentication tokens.

c. User invalid Credential:

- If user entered wrong username password show error.

2. Inventory Management:

a. Camera Listing:

- Create a database to store camera details (e.g., make, model, availability status, rental price, etc.).

- Allow admins to add, edit, or remove camera listings.

b. View all My camera:

- Implement search and filter options for users to find specific camera models or features.

c. Status Tracking:

- Track camera availability and update it in real-time.

- Display availability status to users when they browse the inventory.

3. Reservation Handling:

a. Booking Process:

- Allow users to select a camera, specify rental dates, and make a reservation.

- Check camera availability and prevent double bookings.

4. Payment:

a. My wallet

-show the user wallet amount.

-If it is insufficient show add money.

-enter the amount need to deposit.

b. Amount detecting:

- Calculate the rental price based on the selected camera. And detect the amount from wallet.

5.tools used:

-Eclipse

-java

-GitHub

-search and sort techniques

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