Assignment: Travel Booking Application

Objective:
Build a simple travel booking web application using **Python (Django)** that allows users to view available travel options, book a ticket, and manage their bookings. The frontend can be developed using **Django templates**.

Requirements:

Backend:

1. **User Management**:
    - Implement user registration, login, and logout using Django's built-in authentication system.
    - Allow users to update their profile information.
2. **Travel Options**:
    - Create a model for **Travel Options** (e.g., flight, train, bus), which includes fields such as:
        - Travel ID
        - Type (Flight, Train, Bus)
        - Source
        - Destination
        - Date and Time
        - Price
        - Available Seats
3. **Booking**:
    - Allow users to book travel options by selecting a travel option, entering details, and confirming the booking.
    - Each booking should be stored in a **Booking model**, which includes:
        - Booking ID
        - User (Foreign Key)
        - Travel Option (Foreign Key)
        - Number of Seats
        - Total Price
        - Booking Date
        - Status (Confirmed, Cancelled)
4. **View and Manage Bookings**:
    - Users should be able to view their current and past bookings.
    - Implement functionality to allow users to **cancel** bookings.

Frontend:

1. **User Interface**:
    - Design simple but user-friendly pages using **Django templates**.

    - Create views for:
        - User registration, login, and profile management.
        - Listing available travel options with filters for type, source, destination, and date.
        - Booking form for selecting travel options and confirming the booking.
        - Displaying current and past bookings with options to cancel bookings.
2. **Responsiveness**:
    - Ensure the pages are responsive and functional across devices (e.g., desktop, mobile).
3. **Styling**:
    - Use **CSS** to style the pages. You can also use a framework like **Bootstrap** for faster development.

Bonus Points:

- Use **MySQL** as the database for the project.
- Implement basic **validation** (e.g., user input, number of available seats).
- Write unit tests for critical features.
- Add search and filtering capabilities for travel options (e.g., filter by type, date, or destination).

Submission:

- Push the code in a GitHub repository.
- Provide instructions in the README file on how to set up the project locally.
- Deploy the application to **AWS** OR **Pythonanywhere** (or any cloud platform) and share the deployed URL.
- Share the github link and deployment url

Evaluation Criteria:

- Backend functionality and adherence to Django best practices.
- Frontend usability, design, and responsiveness.
- Code quality and structure.
- Use of MySQL and any cloud deployment (if applicable).
- Problem-solving skills and creativity.