Project Report : Hotel Booking System

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Hotel Booking System - Django Project Report

1. Project Overview

The Hotel Room Booking System is a full-stack Django-based web application designed to manage hotel

room bookings. It features user authentication, room listings, booking logic, and media handling. The aim is to

provide a seamless interface for users to register, log in, view available rooms, book them, and manage their

bookings.

2. Features

- User Registration, Login, and Logout (Handled via Django Authentication System)

- Room Listings: View all rooms with media

- Room Categorization:

- Available Rooms: Not booked by anyone

- Unavailable Rooms: Already booked

- My Rooms: Booked by the logged-in user

- Image and Media Handling using Django's MEDIA settings

- Booking system: Prevents double bookings

- Admin panel for data management

3. Project Structure

- `accounts/`: Handles user authentication (login, register, logout)

- `home/`: Main app for rooms and booking logic

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- `media/room\_images/`: Contains uploaded room images

- `templates/`: All HTML templates

- `static/css/`: All CSS files

- `hotel/settings.py`: Configuration including static/media setup

- `db.sqlite3`: Local database (used only for development)

4. Technologies Used

- Python 3.x

- Django 5.2

- SQLite3 (development DB)

- HTML5, CSS3

- Git and GitHub for version control

- PowerShell/Command Line Interface

5. GitHub Integration

The project is hosted on GitHub and uses version control for collaboration. Contributors can clone the repo,

set up their environment, and run the server using `python manage.py runserver`.

Repository URL:

https://github.com/A7-ha4/Hotel\_repo.git

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Typical workflow for collaborators:

- git pull origin main to get latest changes

- git add . && git commit -m "message" && git push origin main to push changes

6. Good Practices

- Separate apps for authentication (accounts) and core logic (home)

- Use of Django's static and media handling features

- Proper usage of GitHub for versioning

- Clear UI for room booking and management

- Clean and modular code organization