

Project Setup:

Hotel Management

Steps for Django project setup (Ubuntu):

Follow the below commands.

```
---> cd /opt/  
---> mkdir idbooks_hotel  
---> cd idbooks_hotel/  
---> python -V  
Python 3.12.3
```

Creating a Virtual environment and activating the plugins

```
---> sudo apt install python3.12-venv  
---> python -m venv plugins  
---> source plugins/bin/activate
```

Installing required packages for the project

```
---> pip install django djangorestframework psycpg2-binary  
djangorestframework-simplejwt Pillow django-cors-headers  
---> pip freeze > requirements.txt
```

Creating the Project and app inside the project

```
---> django-admin startproject hotel_booking  
---> cd hotel_booking  
---> python manage.py startapp api
```

Setting up the Postgresql for project

```
---> sudo apt install postgresql postgresql-contrib
---> sudo systemctl start postgresql
---> sudo systemctl enable postgresql
---> sudo systemctl status postgresql
---> sudo -u postgres psql
```

Execute the below commands in the Postgresql shell to create the database and give all permissions

```
CREATE USER hotel_user WITH PASSWORD 'loke1234';
ALTER ROLE hotel_user SET client_encoding TO 'utf8';
ALTER ROLE hotel_user SET default_transaction_isolation TO 'read committed';
ALTER ROLE hotel_user SET timezone TO 'UTC';
GRANT ALL PRIVILEGES ON DATABASE hotel_booking TO hotel_user;
GRANT USAGE ON SCHEMA public TO hotel_user;
GRANT CREATE ON SCHEMA public TO hotel_user;CREATE DATABASE hotel_booking;
GRANT ALL PRIVILEGES ON ALL TABLES IN SCHEMA public TO hotel_user;
GRANT ALL PRIVILEGES ON ALL SEQUENCES IN SCHEMA public TO hotel_user;
ALTER DEFAULT PRIVILEGES IN SCHEMA public GRANT ALL ON TABLES TO
hotel_user;
ALTER DEFAULT PRIVILEGES IN SCHEMA public GRANT ALL ON SEQUENCES TO
hotel_user;
\du hotel_user
\q
```

Making the changes in the database made in django models using migrations

```
---> python manage.py makemigrations api
---> python manage.py migrate
---> python manage.py showmigrations
```

Running the server

---> `python manage.py runserver`