

aventus__hospital__backend

Hospital Management Django Project Documentation

Running the Project

1. Clone the Repository

```
git clone https://github.com/jvnjse/aventus_hospital_backend.git
cd aventus_hospital_backend
```

2. Create a Virtual Environment

```
python -m venv env
```

3. Activate the Virtual Environment

- On Windows:

```
env\Scripts\activate
```

- On macOS/Linux:

```
source env/bin/activate
```

4. Install Requirements

```
pip install -r requirements.txt
```

5. Apply Migrations

```
python manage.py migrate
```

6. Create a Superuser (Optional)

```
python manage.py createsuperuser
```

7. Run the Development Server

```
python manage.py runserver
```

Your Django application will be running at <http://127.0.0.1:8000/>.

API Endpoints

Base URL

All endpoints are accessible under the following base URL:

<http://127.0.0.1:8000/api/>

Endpoints

1. Patients

- **Add Patient**

- **Method:** POST
- **Endpoint:** /patients/
- **Request Body:**

```
{  
  "patient_id": "P001",  
  "name": "Patient Name",  
  "contact_information": "Patient Contact address",  
  "medical_history": "Asthma",  
  "date_of_birth": "1999-05-30",  
  "gender": "Male"  
}
```

- **Get All Patients**

- **Method:** GET
- **Endpoint:** /patients/
- **Request Body:** None

- **Get Single Patient**

- **Method:** GET
- **Endpoint:** /patients/P001/
- **Request Body:**

```
{  
  "patient_id": "P001",  
  "name": "Patient Name",  
  "contact_information": "Patient Contact address",  
  "medical_history": "Asthma",  
  "date_of_birth": "1999-05-30",  
  "gender": "Male"  
}
```

- **Edit Patient**

- **Method:** PUT
- **Endpoint:** /patients/P001/
- **Request Body:**

```
{  
  "patient_id": "P001",
```

```
    "name": "Patient Name",
    "contact_information": "Patient Contact address",
    "medical_history": "Asthma",
    "date_of_birth": "1999-05-30",
    "gender": "Male"
}
```

- **Delete Patient**

- **Method:** DELETE
- **Endpoint:** /patients/P001/
- **Request Body:** None

2. Appointments

- **Add Appointment**

- **Method:** POST
- **Endpoint:** /appointments/
- **Request Body:**

```
{
  "patient_id": "P001",
  "doctor_name": "Dr. Smith",
  "department": "General",
  "appointment_date": "2024-07-15",
  "appointment_time": "14:00",
  "reason_for_visit": "Routine Checkup"
}
```

- **Get All Appointments**

- **Method:** GET
- **Endpoint:** /appointments/
- **Request Body:** None

- **Get Single Appointment**

- **Method:** GET
- **Endpoint:** /appointments/A001/
- **Request Body:**

```
{
  "patient_id": "P001",
  "doctor_name": "Dr. Smith",
  "department": "General",
  "appointment_date": "2024-07-15",
  "appointment_time": "14:00",
}
```

```
    "reason_for_visit": "Routine Checkup"
  }
```

- **Edit Appointment**

- **Method:** PUT
- **Endpoint:** /appointments/A002/
- **Request Body:**

```
{
  "appointment_id": "A002",
  "patient_id": "P001",
  "doctor_name": "Dr. Cathy edited",
  "department": "Cardiology",
  "appointment_date": "2024-07-17",
  "appointment_time": "16:30",
  "reason_for_visit": "Emergency visit"
}
```

- **Delete Appointment**

- **Method:** DELETE
- **Endpoint:** /appointments/A001/
- **Request Body:** None

3. Upload Excel File

- **Upload Data from Excel**

- **Method:** POST
- **Endpoint:** /upload/
- **Request Body:**

- * **Form Data:**
 - **Key:** file
 - **Type:** File
 - **File Path:** /path/to/your/excel/file.xlsx

Postman Collection

The Postman collection file provided can be used to test the API endpoints. You can import the **aventus** collection into Postman using the following steps:

1. **Open Postman** and go to the **Import** option.
2. **Select** the JSON file and **Import** the **aventus** collection.
3. **Set the base_url Variable:**
 - Click on **Environments** in Postman.

- Create a new environment or use an existing one.
- Set the `base_url` variable to `http://127.0.0.1:8000/`.

4. Run the Requests:

- You can now execute the various API requests as defined in the collection.

Example Postman Requests

Here's a brief overview of the requests included in the Postman collection:

Add Patient

- **URL:** `{{base_url}}api/patients/`
- **Method:** POST
- **Body:** JSON with patient details

Get All Patients

- **URL:** `{{base_url}}api/patients/`
- **Method:** GET

Get Single Patient

- **URL:** `{{base_url}}api/patients/P001/`
- **Method:** GET

Edit Patient

- **URL:** `{{base_url}}api/patients/P001/`
- **Method:** PUT
- **Body:** JSON with updated patient details

Delete Patient

- **URL:** `{{base_url}}api/patients/P001/`
- **Method:** DELETE

Add Appointment

- **URL:** `{{base_url}}api/appointments/`
- **Method:** POST
- **Body:** JSON with appointment details

Get All Appointments

- **URL:** `{{base_url}}api/appointments/`
- **Method:** GET

Get Single Appointment

- **URL:** {{base_url}}api/appointments/A001/
- **Method:** GET

Edit Appointment

- **URL:** {{base_url}}api/appointments/A002/
- **Method:** PUT
- **Body:** JSON with updated appointment details

Delete Appointment

- **URL:** {{base_url}}api/appointments/A001/
- **Method:** DELETE

Upload Excel File

- **URL:** {{base_url}}api/upload/
- **Method:** POST
- **Body:** Form-data with a file

Also check into the postman collection file in the folder structure