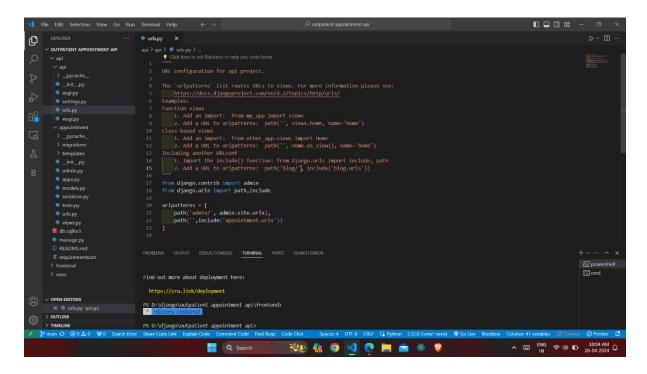
Project Title and Purpose:

- The project is titled "OUTPATIENT APPOINTMENT API."
- It appears to be related to managing outpatient appointments.



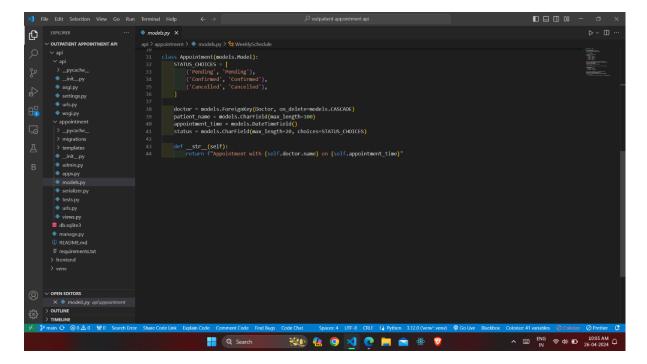
1. URL Configuration (urls.py):

- The file urls.py is used for configuring URL patterns in a Django web application.
- The URL patterns map specific URLs to corresponding views (functions or classes).
- The urlpatterns list contains routes for different parts of the application.

2. Examples of URL Patterns:

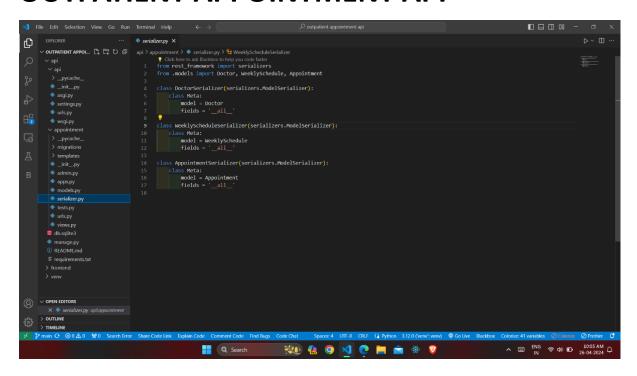
- o Example 1:
 - URL: /admin/
 - Corresponding view: Django admin interface
- Example 2:
 - URL: /
 - Corresponding view: Includes the app named "appointment" (defined in appointment.urls)

```
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1. Models.py:

- o This is the Object Relation Mapping (ORM) file.
- o This file contains the structure of the database.
- Classes like Doctor, WeeklySchedule and, Appointment are the tables that explaining the structure of the tables.



Serializer.py

1. **DoctorSerializer**:

This serializer class is for the Doctor model. It includes all fields of the model in the serialization process.

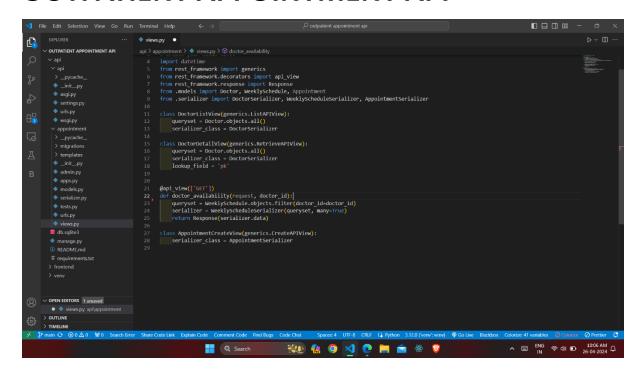
2. WeeklyScheduleSerializer:

This serializer class handles the WeeklySchedule model, serializing all its fields.

3. AppointmentSerializer:

o This serializer class is for the Appointment model, including all fields in the serialization.

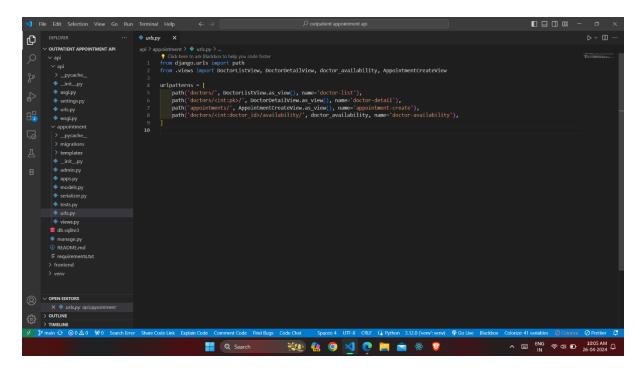
Each Meta class within the serializers specifies the model it serializes and the fields to include. The '__all__' value indicates that all fields in the respective model should be included in the serialized data. These serializers are typically used to convert complex data types to Python data types that can then be easily rendered into JSON for API responses.



Views.py

- 1. **DoctorAvailability**: This class inherits from generics.ListAPIView and is set up to list all doctor objects using DoctorSerializer.
- 2. **DoctorDetail**: Inherits from generics.RetrieveAPIView and retrieves a specific doctor by their primary key (pk), again using DoctorSerializer.
- 3. **doctor_availability Function**: Defined with the @api_view decorator for HTTP GET requests, it filters the WeeklySchedule by doctor_id, serializes the data, and returns it in the response.
- 4. **AppointmentCreateView**: A class for creating new appointments, inheriting from generics.CreateAPIView and using AppointmentSerializer.

This script is part of the backend API, allowing front-end applications to interact with the database to retrieve doctors' availability and manage appointments. The use of class-based views and function-based view demonstrates Django's flexibility in handling different types of HTTP requests.



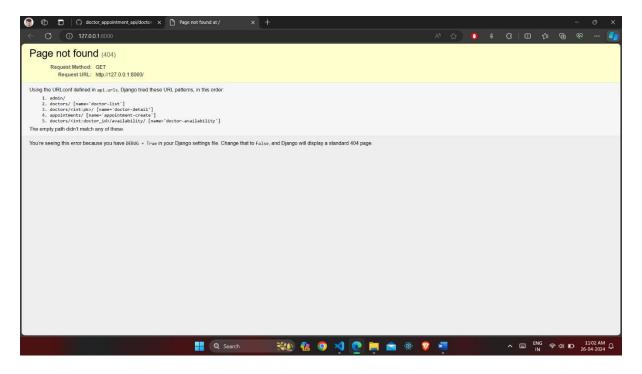
Urls.py:

1. URL Patterns:

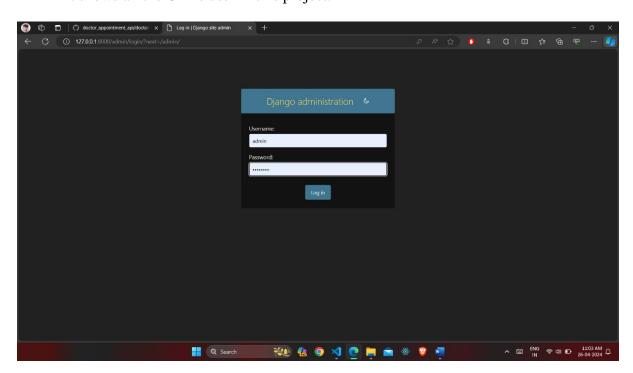
- o A list named urlpatterns contains the URL patterns for the app.
- o **List View**: The URL ending in 'doctors/' is mapped to DoctorListView, which likely displays a list of doctors.
- o **Detail View**: A URL like 'doctors/5/' (where '5' is a doctor's ID) is directed to DoctorDetailView, showing details for a specific doctor.
- Appointment Creation: Adding 'appointment/' to the URL directs to
 AppointmentCreateView for scheduling an appointment with that doctor.
- o **Availability**: The URL ending in 'availability/' maps to doctor_availability, likely showing when the doctor is available for appointments.

This setup helps users navigate to different parts of the application to view doctors, their details, schedule appointments, and check availability.

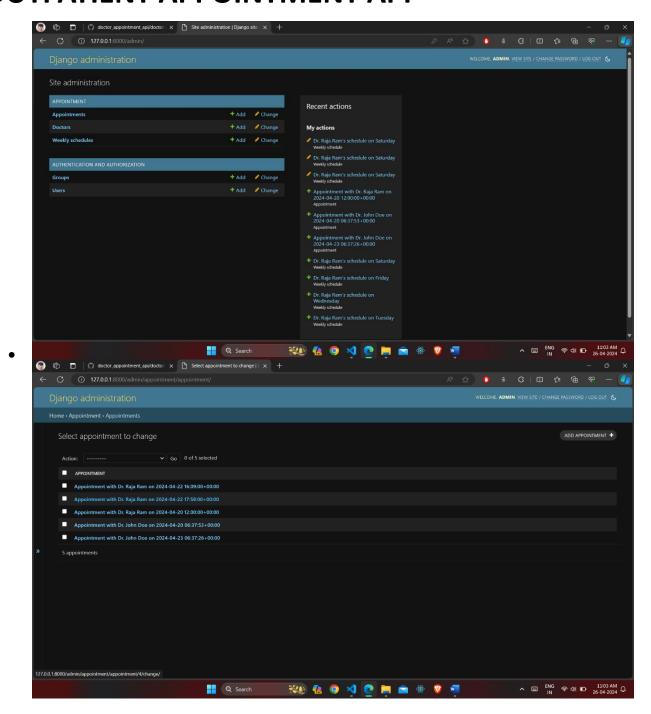
Output:

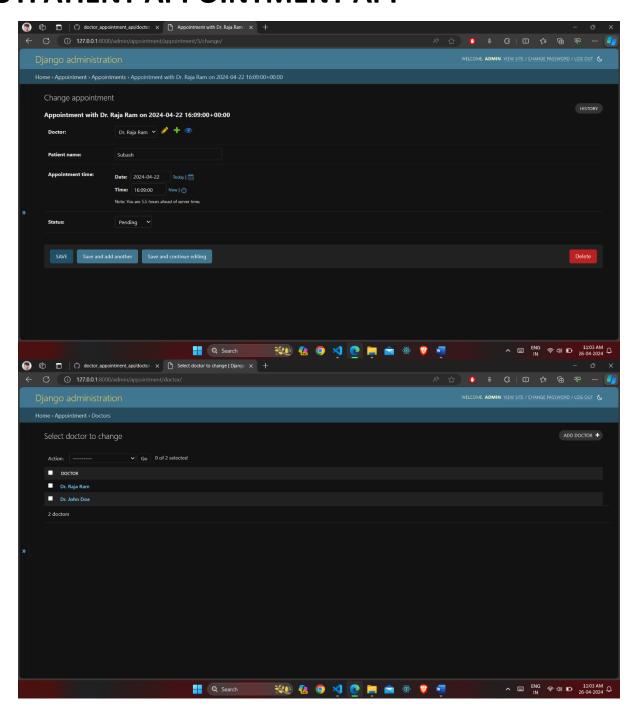


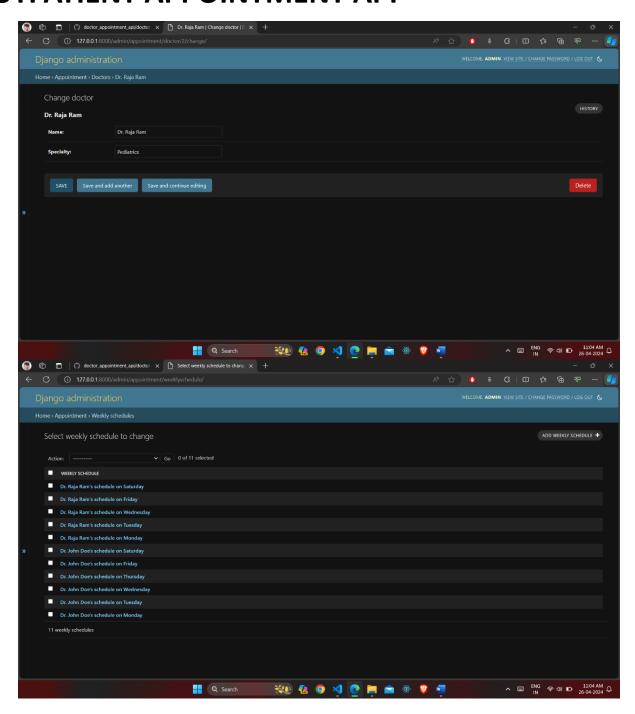
- After running the application this page will appear this is the default page that shows while URL is not found in the project and,
- It shows all the URLs user in this project.

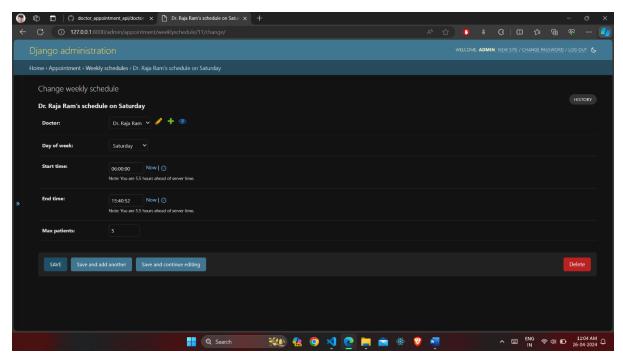


• While using \admin URL it will display the login page of admin panel

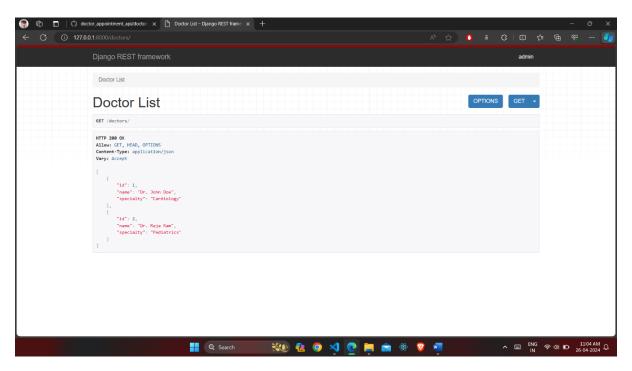




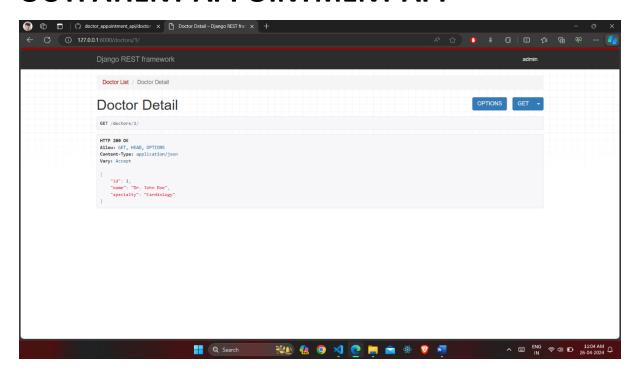




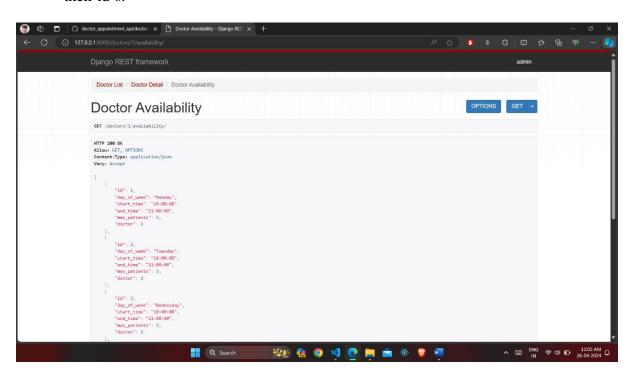
• After login we can able to view the data, edit the data, add the data in the database



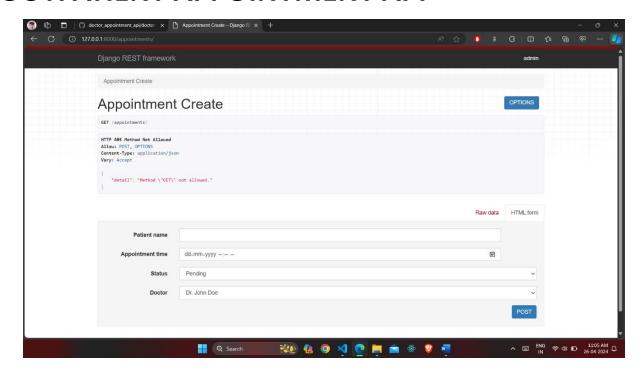
• /doctor URL is used to list the doctors data.



• /doctors/1 or /doctors/2 URL are used to display the particular doctors data by using their id's.



• /doctors/1/availability/ is used to list the availability of the particular doctor in the week.



• /appointments/ is used to register the appointment using post request