**1. Login APIs**

For login, registration, and user data retrieval.

* POST /api/auth/register  
  Login user (doctor or admin or user).
* GET /api/users  
  Returns a list of all registered users (admin).
* DELETE /api/users/{userId}  
  Deletes a user (admin).

**2. Appointment APIs**

Used by users to schedule appointments and by (doctors or admins) to manage them.

* POST /api/appointments/request  
  Sends an appointment request (user).
* GET /api/appointments  
  Fetches all scheduled appointments (admin).
* GET /api/appointments/today  
  Fetches appointments scheduled for today (admin).
* GET /api/appointments/doctor/{doctorName}  
  Fetches appointments for a specific doctor.
* DELETE /api/appointments/{appointmentId}  
  Cancels a specific appointment (admin only).

**3. Appointment Request APIs**

Used by the admin to approve/reject appointment requests.

* GET /api/appointment-requests  
  Fetches all pending appointment requests.
* POST /api/appointment-requests/approve/{requestId}  
  Approves an appointment request and schedules it.
* POST /api/appointment-requests/reject/{requestId}  
  Rejects an appointment request.

**4. Doctor Management APIs**

Used to monitor and manage doctors and their schedules.

* GET /api/doctors  
  Fetches all doctors (admin).
* GET /api/doctors/:doctorId/appointments  
  Fetches all appointments for a specific doctor (admin or that specific doctor).
* DELETE /api/doctors/:doctorId  
  Removes a doctor (Admin only if needed).

**5. Email / Notification APIs**

Used to send emails when canceling or approving/rejecting appointments.

* POST /api/email/send  
  Sends an email. Body includes [to, subject and message] .(admin only)

**6. Analytics APIs**

Used to power the "This Week / Month" stats panel.

* GET /api/analytics/appointments/week  
  Returns count for the number of appointments in the current week.(admin)
* GET /api/analytics/appointments/month  
  Returns count for the number of appointments in the current month.(admin)