Microservices Communication and Configuration Setup

1 Specification of Micro-services in Health Appointment System

The table below outlines the specification of the Patient, Appointment, and Notification microservices in the Health Appointment System.

Table 1: Specification of Patient, Appointment, and Notification Microservices

No	Micro-service	Responsibilities	Key Features	Database Entities	APIs
1	Patient Service: port 8001	- - Manage patient information. - Handle patient registration and profile updates. - Enable login and retrieval of patient appointments	- Create patients. - Create Doctors - Patient authentication. - Profile management.	Patients, Patients data, Doctor s data	POST /patients: Register patient. -POST /doctors: Register doctors. - GET /patients/login
2	Appointment Service: port 8002	- Manage appointment scheduling and cancellations. - Handle appointment status updates. - Integrate with patient and provider services.	- CRUD operations for appointments. - Appointment reminders.	Appointments,	- POST /appointments: Schedule appointment. - PUT /appointments/{id}: Update appointment status. - DELETE /appointments/{id}: Cancel appointment.
3	Notification Service: port 8003	- Manage notifications for appointments. - Handle alerts for patients - Integrate with messaging services.	- Email and SMS notifications. - Reminder scheduling.		- POST /notifications: Send notification.