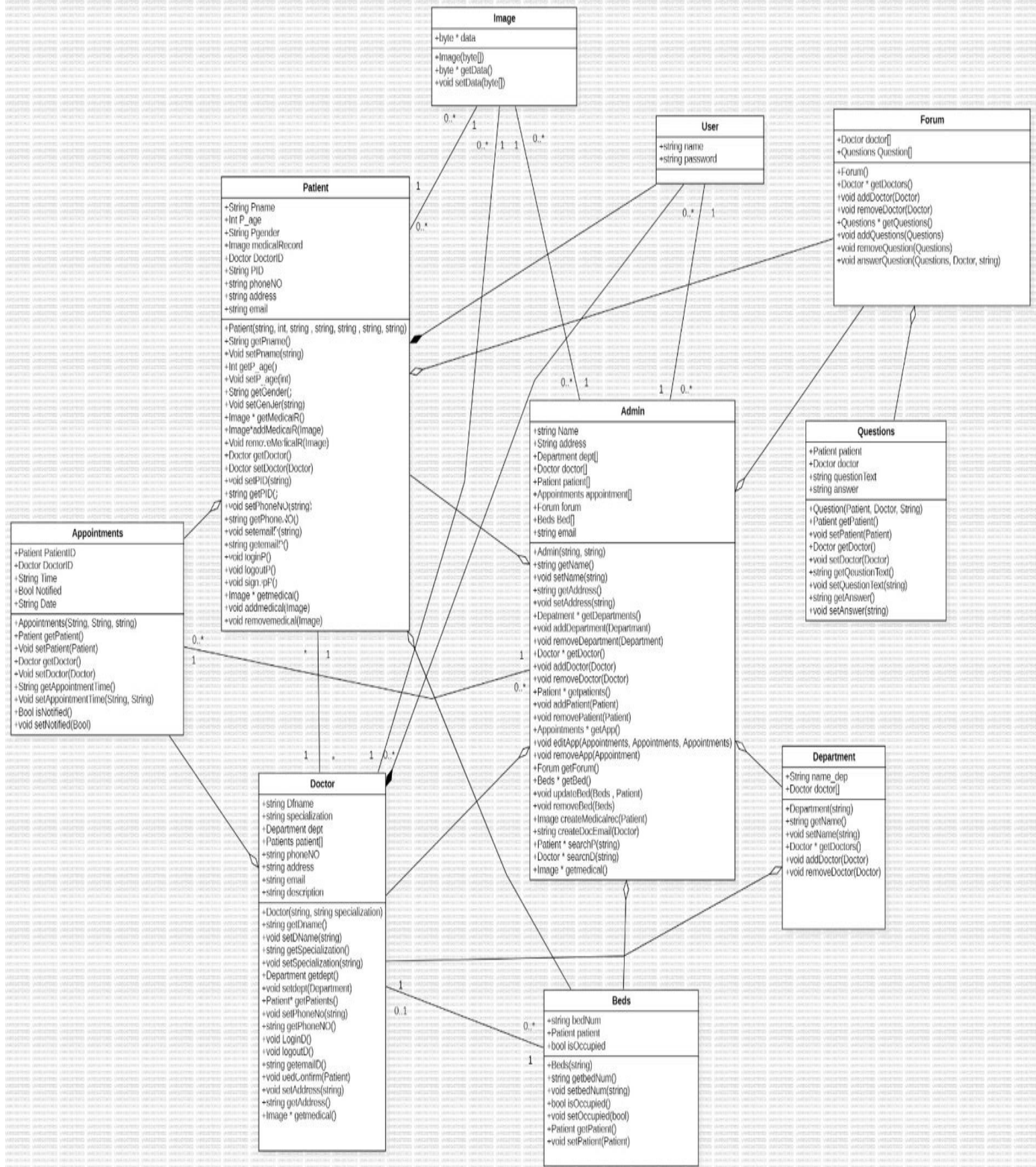


# I.

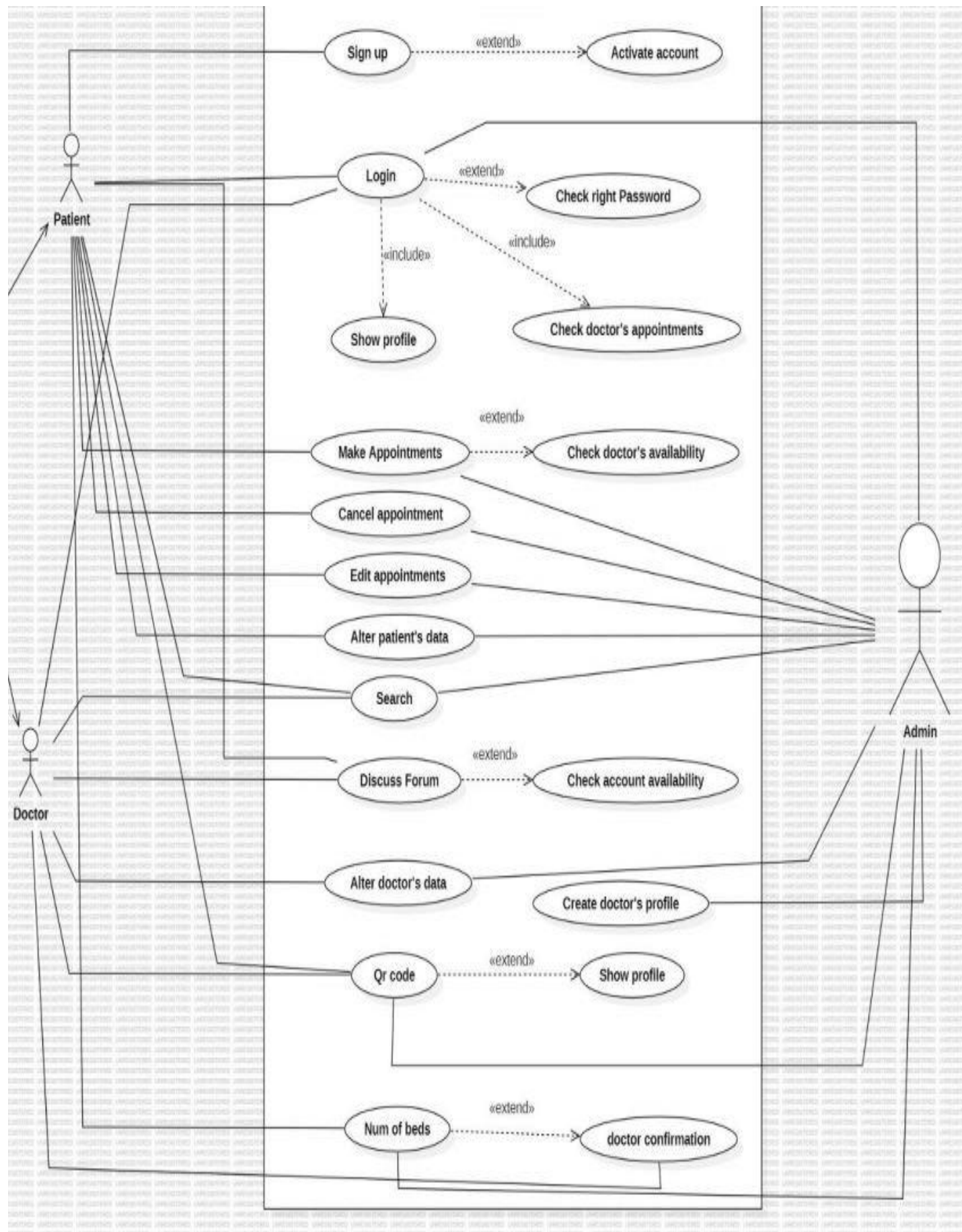
Noun	Notes	Include/Exclude	
Patient	We need to store patient details, including personal information, medical history, etc.	Include	Core entity representing individuals receiving medical services in the system.
Doctor	We need to store doctoral profiles, including specialization, availability, etc.	Include	Key entity for managing medical services and appointments.
Appointment	Information about each appointment, including date, time, status, and doctor-patient linkage.	Include	Essential for scheduling and managing interactions between doctors and patients.
Medical record	Detailed information on patient diagnoses, treatments, and history.	Include	Necessary for tracking patient medical history and treatment details.
Bed	Information about bed availability and assignments.	Include	Important for managing in-patient admissions and hospital capacity.
Admin	Admin profiles for system management and access control.	Include	Critical for overseeing system operations and managing access levels.
User	General user profile details, possibly including login credentials and roles.	Exclude	Replaced by specific roles like Patient, Doctor, and Admin for clarity in the system.
Schedule	Doctor's availability schedule for managing appointments.	Include	Required for tracking doctor availability to enable efficient appointment booking.
Message	Messages exchanged between patients and doctors within the forum.	Include	Useful for facilitating communication between patients and doctors.

Role	User roles to define access levels, such as Admin, Doctor, Patient.	Include	Needed to assign permissions and restrict access based on user type.
Permission	Specific permissions are tied to user roles for controlling access to features.	Exclude	Permissions can be implicitly managed through roles, avoiding additional complexity.
Forum	A discussion platform for patient-doctor communication.	Include	Enhances patient-doctor engagement by allowing discussions outside of appointments.
QR Code	Unique code for quick patient information access during check-in.	Include	Improves efficiency during patient check-in by allowing quick access to information.
System log	Records of system activities for monitoring and security purposes.	Include	Essential for auditing and tracking activities for security and accountability.
Bed allocation	Assignments and tracking availability for patient beds.	Include	Necessary for managing patient admissions and bed utilization.
Notification	Notifications for upcoming appointments, system alerts, etc.	Include	Important for reminding users about appointments and other relevant events.
Profile	User profile details for patients and doctors.	Exclude	Redundant with "Patient" and "Doctor" entities, which already contain profile information.
Patient-Doctor Relationship	Connection between a patient and their assigned doctor.	Include	It is important to link patients with their doctors for coordinated care.
Doctor-Schedule Relationship	Association of a doctor with their schedule for managing appointments.	Include	Required for managing and retrieving a doctor's availability for scheduling purposes.



## II.

Use Case	CRUD Operation	Domain Class	Description
Sign up	Create	User	Creates a new user account, typically for Patients or Doctors.
Activate account	Update	User	Updates the user's account status to active.
Login	Read	User	Verifies user credentials to allow login access.
Check right Password	Read	User	Reads stored password data to validate the user's input.
Show Profile	Read	User	Retrieves and displays user profile information.
Check doctor's appointments	Read	Appointment	Reads and displays doctor's appointment list for the patient to view availability.
Make Appointments	Create	Appointment	Create a new appointment for the patient with a doctor.
Cancel appointment	Delete	Appointment	Deletes an existing appointment.
Edit appointments	Update	Appointment	Updates details of an existing appointment (e.g., date, time).
Alter patient's data	Update	Patient	Updates the patient's personal data.
Search	Read	Patient, Doctor, Admin	Reads database records to search for users, doctors, or available services.
Discuss Forum	Create, Read	Message	Allows users to create new messages and read existing ones in the forum.
Check account availability	Read	User	Reads user account data to verify its availability status.
Alter doctor's data	Update	Doctor	Updates the doctor's personal or professional data.
Create doctor's profile	Create	Doctor	Creates a new profile for a doctor.
QR code	Read, Update	Appointment, Patient	Reads patient or appointment data for generating/updating QR codes.
Number of beds	Read	Bed	Reads data on available beds to manage hospital bed allocation.
Doctor confirmation	Update	Appointment, Doctor	Updates appointment status based on doctor's confirmation (e.g., approve or deny).



[illegible]