

HOSPITAL APPOINTMENT BOOKING



Presented By:

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PROBLEM STATEMENT

- Efficient healthcare management is essential for timely access to medical services and optimal resource allocation, directly affecting patient outcomes and operational efficiency.
- The Patient Appointment Scheduling System provides an integrated framework to simplify and optimize the appointment booking process.
- It fosters seamless communication among key stakeholders, including patients, doctors, lab technicians, receptionists, and department head

GOALS

- Improve Patient Experience
- Optimize Doctor and Lab Utilization
- Support Data-Driven Decision Making
- Ensure Privacy and Role-Specific Access:

BUSINESS RULES

- A patient must be registered before they can book an appointment.
- A patient can book multiple appointments, but overlapping appointments are not allowed.

- Each doctor must belong to a department and can only view appointments related to their specialty.
- A doctor can handle multiple appointments per day, but no two appointments should overlap in the doctor's schedule.

- Departments manage both doctors and labs associated with their respective areas of specialty.
- A doctor can only belong to one department at a time.
- Each department must have at least one doctor assigned.

CONSTRAINTS

- The appointment date cannot be from the past
- The appointment cannot be scheduled when doctor is unavailable

- Lab test cannot be scheduled unless it's linked to an appointment
- Feedback is added for each patient, it can be given after appointment

Appointment booking constraints

- checks if patient ID is Null or doesn't exist
- validates appointment date, if it's future appointment
- check if Doctor ID is null, validates if doctor is present or not

ROLES AND PERMISSIONS

Administrator

- Full Access to all system data, including appointments, medical history, lab results, and user accounts.
- Create/Update/Delete user accounts, including assigning roles and permissions.
- Manage and configure the system settings (e.g., schedule rules, departments, labs, etc.).
- Can access all data

Lab Technician

- View and update the lab test results for tests they are assigned.
- Manage lab test records (add/update results for lab tests).
- Access Patient Information relevant to the lab test (Patient ID, appointment details).

ROLES AND PERMISSIONS

Doctor

Accessible Information

- Patient information (only for patients they are assigned to or treating).
- Medical history (for patients they are treating).
- Appointments and schedules (limited to their own schedule).
- Lab results (only for their patients).
- Performance evaluation and patient feedback related to them.

Doctor

- View their own appointments and edit if necessary, patient medical histories for the patients they are treating.
- View the lab test results for their patients.
- Request lab tests and view the status of tests they've requested.
- View Patient Feedback related to them.
- Manage their availability (available time slots).

ROLES AND PERMISSIONS

Receptionist

- Create/Update/Delete appointments.
- View basic patient details (name, contact info, appointment history).
- Schedule/Reschedule appointments for patients.
- View the availability of doctors for scheduling purposes.

Receptionist

Accessible Information:

- Appointment details (without access to sensitive medical history or lab results).
- Basic patient contact information (name, email, phone).
- Doctor availability and time slots.

ROLES AND PERMISSIONS

Patient

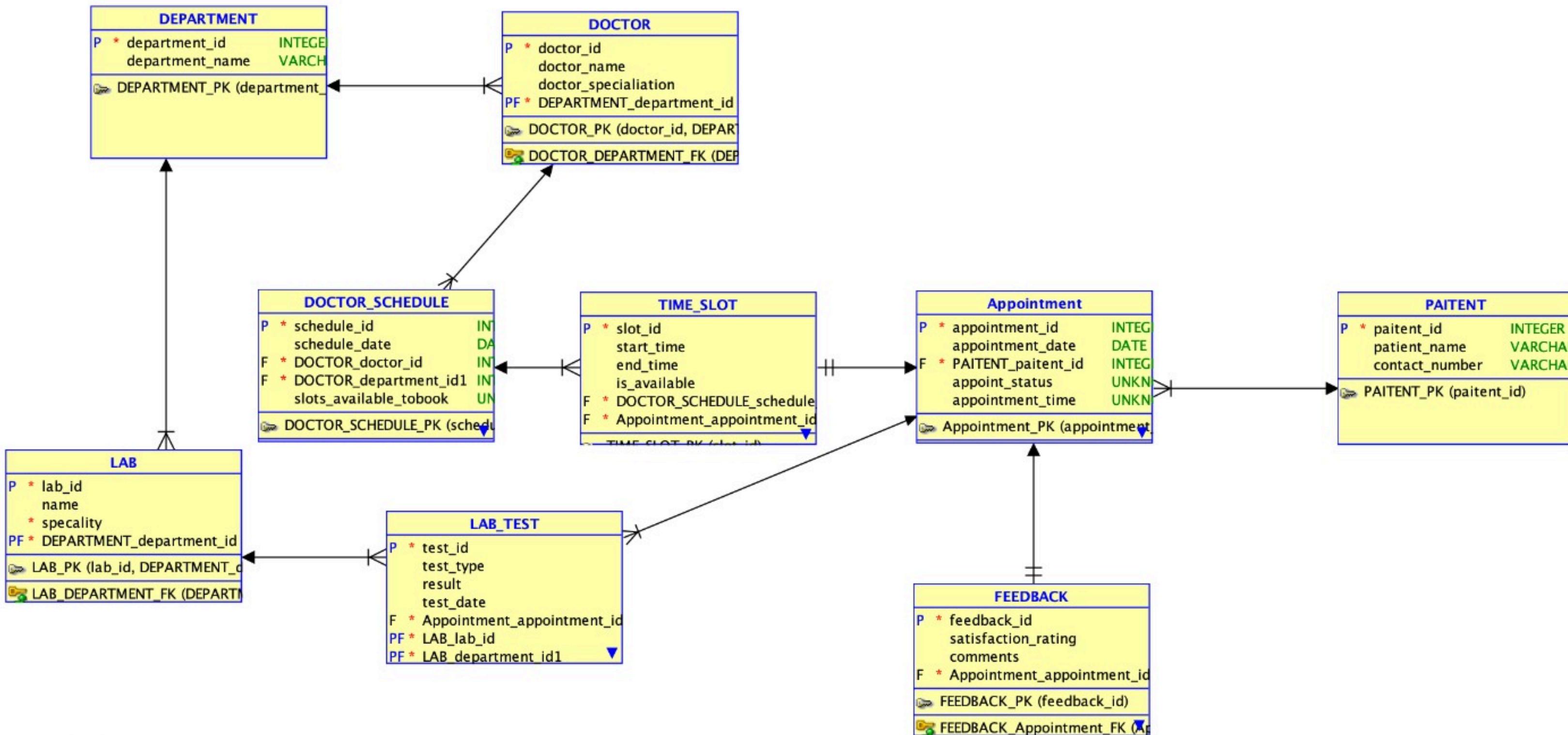
Accessible Information

- Appointment history (only for their own appointments).
- Lab test results (only for their own tests).
- Feedback form (to provide satisfaction ratings for appointments).
- Personal contact information (email, phone number).

Patient

- View their own appointment history and upcoming appointments.
- View lab test results related to their appointments.
- Submit feedback for their doctor and performance.
- View/Edit their personal contact information (phone number, email).

ER DIAGRAM



PROJECT CONTRIBUTIONS



- **Srunith**- Views, read , write permissions, Stored procedures, , reports,Indexes.
- **Srinivas**-Table and user creation, views,Stored procedures, reports.
- **Likhith**-Data insertion, read permissions, functions, packages, views.

THANK YOU