CAPITAL HEALTH PROJECT SCOPE – BE

Note: Before a patient can be able to book an appointment, he/she must have to be signed up / logged in to the system already

1. ## Hospital Appointment Booking – Data to collect

   Patient Info – Already fetched from the Patients records:

   - Patient_id (UUID / auto ID)
   - First_name
   - Last_name
   - Gender
   - Date_of_birth
   - Phone_number
   - Email (optional)
   - Emergency_contect_name
   - Emergency_contect_phone

   Appointment Details:

   - Appointment_id
   - Patient_id
   - Department_id
   - Doctor_id(The doctor that’s gonna be attending to the patient)
   - Appointment_date
   - Appointment_time
   - Appointment_type (Virtual | New | Follow-up | Emergency)
   - Reason_for_visit
   - Payment (Future Ready – Ruled out for now)

2. ## Blog Module – Data Structure

   Blog Post – contents:

   - Blog_id
   - Title
   - Summary
   - Content (Mark-down)

- Author_id
- Category
- Status (Draft | Published | Archived)
- Published_at
- Views_count

Images (Separate Table / Collection)

- Image_id
- Blog_id
- Image_url
- Alt_text
- Position (For ordering)

Number of Images: Unlimited (handled as array or a separate collection

3. Appointment Processing Flow (Important)

Recommended Approach (BSTP):

a) Patient's books appointment ⟶ Status: Pending

b) Either Admin or Receptionist reviews the appointment ⟶ Assigns doctor ⟶ Doctor approves / Reschedules / Rejects

c) Doctor sees only approved bookings ⟶ Marks as Completed after the consultation

Who handles what?

ROLE	RESPONSIBILITY
Admin	Full control, setup, assign doctors
Receptionist	Approve bookings, assign doctors
Doctor	View schedule, update consultation notes – whether completed or not

4. Lab / Investigation Records – Data Required

La b Request:

- Lab_request_id
- Patient_id
- Doctor_id
- Appointment_id
- Test_type
- Priority (Normal / Urgent)
- Notes
- Status (Requested | Sample Collected | In progress | Completed)
- Requested_at

Lab Result:

- lab_result_id
- lab_request_id
- result_values(JSON)
- reference_range
- remarks
- attachment_url (PDF / Image)
- reported_by
- reported_at

5. Pharmacy Module – Data Required

Drug / Inventory

- Drug_id
- Drug_name
- Category
- Dosage_form (Tablet, Syrup, Injection)
- Strength
- Manufacturer
- Batch_number
- Expiry_date
- Quantity_in_stock
- Unit_price

- Recorder_level
- Prescription (How drugs should be taken)
- Prescription_id
- Doctor_id
- Patient_id
- Appointment_id
- Created_at

Prescription Items

- Prescription_item_id
- Prescription_id
- Drug_id
- Dosage
- Frequency
- Duration
- Instructions

Dispensing Records

- Dispense_id
- Prescription_id
- Pharmacist_id
- Status (Pending | Dispensed)
- Dispensed_at

6. Core System tables (DTS !Important)

User & Roles

- User_id
- Name
- Email
- Password_hash
- Role (Admin | Doctor | Nurse | LabTech | Pharmacist | Receptionist)
- Status

- Last_login

Departments:

- Department_id
- Name
- Description

Note AG: As it is in creation of Data Base, all fields, tables must have the ***created_at*** and ***updated_at*** keys authomatically.

All first letters of each keys should be in lowercase.

Example: Deparments_id should be departments_id