

User story flow

1. Patient Registration | Priority: High | Estimate: 4

User Story & Acceptance Criteria:

As a new patient, I want to register in the system so that I can access healthcare services.

1. Given the registration form, when the user enters valid details, then the system generates a unique Patient ID.
2. Given invalid/incomplete details, then the system rejects registration.

2. Patient Login | Priority: High | Estimate: 3

As a registered patient, I want to log into the system so that I can access my healthcare portal.

1. Given the login page, when valid credentials are entered, then the system grants access.
2. Given invalid credentials, then the system displays an error message.

3. Update Patient Profile | Priority: Medium | Estimate: 3

As a patient, I want to update my profile so that my information remains accurate.

1. Given the profile page, when valid updates are entered, then the system saves them.
2. Given missing or invalid data, then the system prevents the update.

4. Reset Password | Priority: Medium | Estimate: 2

As a registered patient, I want to reset my password so that I can regain access if I forget it.

1. Given a password reset request, when email is verified, then the system sends a reset link.
2. Given an invalid email, then the system rejects the reset request.

5. View Medical History | Priority: High | Estimate: 4

As a patient, I want to view my past medical history so that I can track my treatments.

1. Given a patient ID, when history is requested, then the system displays records.
2. If no records exist, then the system shows "No history available."

6. Doctor Login | Priority: High | Estimate: 3

As a doctor, I want to log into the system so that I can access my schedule.

1. Given valid login credentials, then the system grants access.
2. Given invalid credentials, then the system rejects login.

7. Doctor Profile Management | Priority: Medium | Estimate: 3

As a doctor, I want to update my profile so that patients can see correct details.

1. Given profile update, when valid info is submitted, then the system saves it.
2. Given missing data, then the update fails.

8. Doctor Availability Setup | Priority: High | Estimate: 4

As a doctor, I want to set my availability so that patients can book appointments accordingly.

1. Given working hours, when saved, then the slots become available for booking.
2. Given overlapping times, then the system rejects input.

9. View Assigned Patients | Priority: Medium | Estimate: 3

As a doctor, I want to view patients assigned to me so that I can prepare for consultation.

1. Given a doctor ID, when the dashboard is opened, then assigned patients are listed.
2. If no patients are assigned, then the list is empty.

10. Manage Schedule | Priority: Medium | Estimate: 4

As a doctor, I want to manage my daily schedule so that I can optimize my time.

1. Given a doctor ID, when a day is selected, then appointments are shown.
2. If schedule changes, then updates are reflected in real-time.

11. Book Appointment | Priority: High | Estimate: 5

As a patient, I want to book an appointment so that I can consult a doctor.

1. Given available slots, when one is chosen, then the appointment is confirmed.
 2. If a slot is unavailable, then the system suggests alternatives.
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12. Modify Appointment | Priority: Medium | Estimate: 3

As a patient, I want to modify my appointment so that I can reschedule.

1. Given an existing booking, when a new slot is selected, then the appointment is updated.
 2. If modification fails, then the system notifies the patient.
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13. Cancel Appointment | Priority: Medium | Estimate: 2

As a patient, I want to cancel an appointment so that I free the slot for others.

1. Given an appointment ID, when cancel is pressed, then the slot is freed.
2. If cancellation deadline is missed, then the system prevents cancellation.

14. Search Available Slots | Priority: High | Estimate: 3

As a patient, I want to search available slots so that I can choose a suitable time.

1. Given doctor and date, when searched, then available slots are displayed.
 2. If no slots exist, then system suggests other doctors.
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15. View Appointment Details | Priority: Medium | Estimate: 2

As a patient, I want to view appointment details so that I can confirm my booking.

1. Given an appointment ID, then booking details are displayed.
 2. If ID is invalid, then error message is shown.
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16. Appointment Reminder (SMS) | Priority: Medium | Estimate: 2

As a patient, I want SMS reminders so that I don't forget my appointments.

1. Given an appointment, when reminder service runs, then SMS is sent.
 2. If appointment is canceled, then SMS is not sent.
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17. Appointment Reminder (Email) | Priority: Medium | Estimate: 2

As a patient, I want email reminders so that I can be notified.

1. Given valid email, when reminder is triggered, then mail is delivered.
2. If email is invalid, then the reminder fails.

18. Cancellation Notice | Priority: Medium | Estimate: 2

As a patient, I want cancellation notices so that I know if my appointment is canceled.

1. Given cancellation, then a notice is sent to the patient.
 2. If notice delivery fails, then system retries.
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19. Generate Bill | Priority: High | Estimate: 4

As a patient, I want to generate my bill so that I can pay for services.

1. Given a completed appointment, then system generates a bill.
 2. If appointment is pending, then bill cannot be generated.
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20. View Bill History | Priority: Medium | Estimate: 3

As a patient, I want to view my billing history so that I can track payments.

1. Given patient ID, when history is requested, then bills are displayed.
 2. If no bills exist, then "No records found."
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21. Export Report | Priority: Low | Estimate: 3

As an admin, I want to export reports so that I can analyze data.

1. Given valid report type, when export is selected, then file is generated.
 2. If report type is invalid, then system prevents export.
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22. Payment Confirmation | Priority: High | Estimate: 2

As a patient, I want to confirm my payment so that I know it was successful.

1. Given valid payment details, then confirmation is displayed.
2. If transaction fails, then error message is shown.

23. Admin Login | Priority: High | Estimate: 3

As an admin, I want to log into the system so that I can manage hospital data.

1. Given valid credentials, then access is granted.
 2. Given invalid credentials, then access is denied.
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24. Manage Users | Priority: High | Estimate: 5

As an admin, I want to manage users so that I can control access.

1. Given valid data, when user is created, then account is activated.
 2. If details are invalid, then account creation fails.
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25. Backup Data | Priority: Medium | Estimate: 4

As an admin, I want to back up data so that I can restore it later.

1. Given backup request, then system saves data copy.
 2. If backup fails, then error log is generated.
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26. Restore Data | Priority: Medium | Estimate: 4

As an admin, I want to restore data so that I can recover from failures.

1. Given a valid backup, then system restores data.
 2. If backup is corrupted, then restore fails.
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27. Error Logging | Priority: Medium | Estimate: 3

As a system, I want to log errors so that admins can monitor issues.

1. Given an error, then entry is logged with timestamp.
2. If log storage is full, then system alerts admin.

28. Security Check | Priority: High | Estimate: 5

As a system, I want to perform security checks so that data remains protected.

1. Given a login attempt, then system enforces password rules.
 2. If suspicious activity is detected, then system blocks access.
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29. Language Support | Priority: Low | Estimate: 2

As a patient, I want multiple language support so that I can use the system easily.

1. Given language preference, then system updates interface.
 2. If translation unavailable, then default English is shown.
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30. Feedback Submission | Priority: Low | Estimate: 2

As a patient, I want to submit feedback so that the hospital can improve services.

1. Given valid feedback, then system saves it.
 2. If feedback is empty, then system rejects submission.
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