

FYP Weekly Progress Report



Project Title: Hospital Information Management System (HIMS)

Project Code: HIMS-AI-2526

Project Advisor: Mr. Aamir Zia

Project Manager: Dr. Muhammad Ilyas

Project Team:

Ali Akbar	BSCS51F22R036	(TL)
Muhammad Najee Ullah Noon	BSCS51F22S043	

Project Github Link:

<https://github.com/Hospital-Information-Management-System>

DEPARTMENT OF CS
UNIVERSITY OF SARGODHA, SARGODHA
SESSION (2022-2026)

Capstone-1 Weekly Progress Report

Date	Work Done By Team Lead (Ali Akbar)	Work Done By Team Member (Muhammad Najee Ullah Noon)
[Week 01 & Week 02] 01-Sep-2025 - 14 Sep 2025	We selected the domain in which we want to make our project. And also discussed ideas for the project and shortlisted them.	
[Week 03] 15-Sep-2025 - 21 Sep 2025	We presented our ideas to our supervisor and he finalized the idea for our project.	
[Week 04] 22-Sep-2025 - 28 Sep 2025	We discussed about the tech we will be using for our project. We also finalized the scope of our project.	
[Week 05] 29-Sep-2025 - 05 Oct 2025	Project Proposal work is done. <ul style="list-style-type: none">• Project Scope• High Level Project Plan• References We both read some articles too.	Project Proposal work is done. <ul style="list-style-type: none">• Abstract• Background and Justification• Research Methodology

[Week 06 & 07]
06-Oct-2025 - 19 Oct 2025

We started making our Project's SRS.

Work Done in SRS:

- Functional Requirements
- Non Functional Requirements
- Assumptions and Dependencies
- References

Work Done in SRS:

- Introduction
- Overall System Description
- External Interface Requirements

We have sent our Project SRS to our supervisor and are waiting for his approval. Also we are talking about to start development of our project.

[Week 08 & 09]
20 Oct 2025 – 02 Nov 2025

No work was done by us in these weeks.
Week 08 was MIDS Week.

[Week 10]
03 Nov 2025 – 09 Nov 2025

We did Discussion with supervisor about design Document.

Module 01 was done.

Module 02 was done.

[Week 11]
10 Nov 2025 – 16 Nov 2025

We worked on Module 03 of Design Document.

- Made System Architecture Diagram (3.1)
- Made Component Diagram for Sub Module Level Architecture for Dashboard Module. (3.3)

- Made Component Diagram for Module Level Architecture. (3.2)
- Made Component Diagram for Sub Module Level Architecture for Appointment Module. (3.3)

<p>[Week 12] 17 Nov 2025 – 23 Nov 2025</p>	<p>Following Diagrams were made .</p> <ul style="list-style-type: none"> • Use Case Diagram • Class Diagram • State Transition Diagram • DFD Diagram (All Levels) • Remade System Architecture Diagram <ul style="list-style-type: none"> • Provided Workflow for Use Case Diagram • ER Diagram • 5 Sequences Diagrams
<p>[Week 13] 23 Nov 2025 – 30 Nov 2025</p>	<ul style="list-style-type: none"> • Updated Class Diagram • Completed Module 04 (Design Strategies) of Design Document • Learned Basics of Django & Working with URLs and Views • Following UI of our project were made <ul style="list-style-type: none"> 1) Landing Page 2) Register & Login Page 3) Patient & Receptionist Portal Complete <ul style="list-style-type: none"> • Updated ER Diagram • Made Full GUI Part (5.6) of the Design Document • Following UI of our project were made <ul style="list-style-type: none"> 1) Doctor & Admin Portal Complete
<p>[Week 14] 01 Dec 2025 – 07 Dec 2025</p>	<ul style="list-style-type: none"> • Edited and finalized the Design Document • Learned Django Concepts <ul style="list-style-type: none"> ✓ Django Template Language ✓ Django Models Working with Database ✓ Django Admin Panel ✓ Working with multiple models and relations <p>Made following diagrams</p> <ul style="list-style-type: none"> • 3.3.1 Patient Component Diagram • 3.3.2 Doctor Component Diagram • 3.3.3 Receptionist Component Diagram • 3.3.4 Admin Component Diagram
<p>[Week 15] 08 Dec 2025 – 14 Dec 2025</p>	<p>Learned Django Concepts</p> <ul style="list-style-type: none"> • Forms & Model Forms • Working with Static Files <p>Implemented some backend logic</p> <p>Made a Model of User for user registration and login . If User credentials are correct then redirect them to their dashboard page.</p> <p>Learned Django Concepts</p> <ul style="list-style-type: none"> • Project structure • Views and URLs • Django Models Working with database • Django Admin panel

[Week 16]
15 Dec 2025 – 21 Dec 2025

-No Work

- Implemented some backend logic for Admin panel and connecting with frontend

[Week 17]
22 Dec 2025 – 28 Dec 2025

-No Work

Implemented Backend:

- Appointment Handling
- (Add ,Update and Remove Appointments) for Reception

[Week 18]
29 Dec 2025 – 4 Jan 2026

No Work was done due to Final Exams

Semester Break (January 2026)

Work Done By Team Lead (Ali Akbar)	Work Done By Team Member (Muhammad Najee Ullah Noon)
<p>Implemented Following things.</p> <ul style="list-style-type: none">• Login Functionality with Simple JWT• Logout Functionality• Google OAuth Login Functionality• User Profile Modal (Add & Update)• Used Cloudinary for User Images• Fetching User Info at Website header• Created Doctor Model so Patient can search the doctor to which he want to make an appointment. Patient can also book an appointment through book appointments tab on his dashboard.• Updated Users Tab in Admin Dashboard . All users will be displayed on that tab and admin can also change the role of the user.• On register page. If the user has registered he have to activate his account through verification link in his email. There is send verification button too. As user logs in it confirms that if user email is verified. Same with Google OAuth Functionality. Reset Password functionality if the user has forgot his password.• Added Web sockets. Now Admin can chat with Doctors and Receptionist. Doctor with Patient and Receptionist. Receptionist with Patient, Doctor & Admin. Patient can chat with Doctor & Receptionist.• Also added Notification component in the Dashboards headers. For now no functionality is added to it.	<p>Implemented Following things.</p> <ul style="list-style-type: none">• Patient schedules appointment which goes into pending state until doctor confirms it in his dashboard. Fetch appointments in patient dashboard and their current status.• Display doctors with relevant appointments in admin dashboard.• Receptionist can also manage appointment creation either through individual patient or searching for both patients and doctors in schedule appointment tab.• Fetch all patients with profile details in receptionist dashboard and allow profile editing.• In doctor dashboard, show all appointment requests from patients and accept or decline the appointment scheduling.

- Implemented Whisper Ai for converting Speech to Text . Languages will be English and Urdu. Final conversation will be converted into text
- As whisper converts voice to text that text will be used to generate SOAP notes for doctor and extracts medical info so that patient report can be made from that. Also Updated Patient and Doctor Dashboard so information from Database will be displayed there.
- In Patient Dashboard all info is now fetched from database like dashboard stats, overview, appointments, medical records and prescriptions tab
In Doctor dashboard stats appointment and patient records are updated with real data.

Capstone 2 Weekly Progress Report

Date	Work Done By Team Lead (Ali Akbar)	Work Done By Team Member (Muhammad Najee Ullah Noon)
<p>[Week 01] 02-Feb-2026 - 08 Feb 2026</p>	<ul style="list-style-type: none">Added Billing Functionality. If the patient appointment is approved then he will be presented with bill which shows the bill of the user and asks him to choose billing method either JazzCash or EasyPaisa or he is going to pay at hospital by visiting receptionist. It requires user to send it to particular account mentioned below after he choose the payment he would be asked to provide a screenshot of that payment in order to verify the payment. It will be verified by the receptionist . After receptionist verifies, the patient can view and download the invoice.In admin dashboard at users tab added a filter to filter the users by roles. At appointments tab added a filter to filter appointments by all, today and upcoming. Also Updated Admin Analytics tab, Admin Billing Tab, Admin Overview Tab with Real DataIn Patient Dashboard, updated Medical Records so patient can view and download his report & prescriptions tab to show history of prescriptions.	<ul style="list-style-type: none">Added Notification Functionality. When an appointment is requested by the patient, notification is sent to doctor for doctor for approving the appointment. Doctor's approval is communicated to patient through notifications. When a receptionist schedules an appointment for a patient notification is sent to doctor to notify of the appointment scheduled. The notifications can be clicked to mark as read in the dashboard panel for each user.

[Week 02]
09-Feb-2026 - 15 Feb 2026

