

Section 1: Metadata

to be filled by the student

1.1. Project Information to be filled in by the student

Title: Mental Health System	
Section:	Instructor:

1.2. Student(s) Information

Name:	ID:
Section:	Batch:

Name:	ID:
Section:	Batch:

Name:	ID:
Section:	Batch:

Section 2: The Project*to be filled by the student***2.1. Project Description:***Please briefly introduce the project, including its scope.*

In Pakistan, mental disorders account for more than 4% of the total illness burden, which is even higher for women. An estimated 24 million people in Pakistan need psychiatric help. However, the resources allocated to screening and treating mental health disorders are insufficient to meet the growing needs.

Therefore, we are building a mental health system that will help users diagnose their mental health illnesses and find relevant treatments from respective professionals. This system is currently applicable to residents of Karachi in Pakistan.

Our database system will include entities of Patients, Medical Professionals, Appointments, Illnesses, Symptoms, Recovery Center, Schedule, Medical History etc.

Our system is based exclusively on mental illnesses and we aim to create awareness and remove the stigma around mental health in Pakistan. This platform will also create a safe space for individuals to reach out for help.

Scope: Medium, we are assembling data from Karachi, which is the largest city of Pakistan area and population-wise. Hence, this project will be considered medium-scale.

2.2 Functional Requirements

This section describes each function/feature provided by your system. These functions are logically grouped into modules based on their purposes. The users in your system must be categorized such as clients, customers or administrators etc. These users will be accessing the database with the level of access that they are authorized.

- **Module 1: Patient Registration**

Function 1a: Register a Patient account

The system lets patients register an account on the website as a patient.

The register form prompts the patient to enter details about their credentials i.e. Name, email, password, age, gender, etc.

Function 1b: Add Patient in our system

This form is submitted through our website and a patient account is created.

Patient information is added to our database.

- **Module 2: Doctor Registration**

Function 2a: Register a doctor account

The system lets doctors register an account on the website as a patient.

The register form prompts the patient to enter details about their credentials i.e. Name, email, password, age, gender, specialization, clinic name etc.

Function 2b: Add Doctor to our system

This form is submitted through our website and a patient account is created.

Doctors' information is added to our database.

- **Module 3: Query**

Function 3a: Mental illness Query

When the patient accesses the website, they will be able to identify possible mental illnesses which match their entered symptoms.

Function 3b: Doctor Query

After recognizing their illnesses, the website will generate a list of medical professionals that correspond with their illnesses. The list will display all the relevant information (e.g., schedule, rates, etc.) about the selected doctors.

- **Module 4: Appointments**

Function 4a: Patients getting an appointment

Patients will be asked about their preference of treatment medium (online/ in-person) and suitable timings. After the patient has entered relevant information, they will be assigned to professionals that are available.

Function 4b: Generating appointment receipt

An appointment receipt will be created which will include all the details such as the appointment date, fee of the medical professional, location etc.

- **Module 5: Administration**

Function 5a:

Admins will manage the schedule of all medical professionals and appointments of patients. This department will help organize the data and make sure there are no clashes between any appointments.

- **Module 6: Extra Features**

Function 6a

After the appointment is scheduled, the patient will be notified by an email to confirm their appointment and receive a copy of their appointment receipt.

2.3. Planned Schedule:

Kindly list the start/end dates and the timeline for the achievement of any intermediate milestones and the expected contribution to be made by the participant(s).

Note: All participants will be contributing equally by working on the project at the same time.

Week 7	Making ERD of our database
Week 8	Research about mental illnesses, symptoms, and professionals.
Week 9	Formulating dummy data
Week 10	Implementing SQL
Week 11	Working on forms
Week 12	Transaction management
Week 13	Working on front-end
Week 14	Finalizing our project

2.4. Technology Stack:

Kindly identify the language and database management system that will be used to build this application. Also identify whether it is going to be a desktop application, mobile application, or web application.

SOFTWARES:

1. DBdesigner
2. MySQL
3. Visual Studio
4. Visual Studio Code
5. GitHub

PROGRAMMING LANGUAGES:

1. C#
2. Python
3. SQL

Project Grading Rubric

Project weightage: 20% (of course grade)

Grade breakdown

Proposal	15%
Interim ERD	20%
Interim Demo	25%
Final Presentation and Submission	40%
Total	100%

Project Proposal

Category	Description	Weightage
Proposal document	The overall quality of the submitted document	5%
Useability/Novelty of Idea	How good and useful the project will be.	5%
Features	List of features are defined adequately or not.	3%
System's Users	The users of the system are identified appropriately or not.	2%
Total		15%