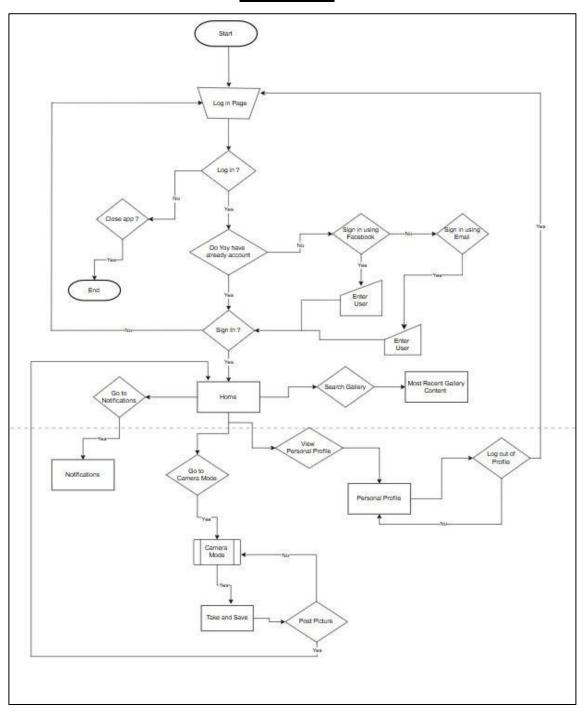
LAB # 01

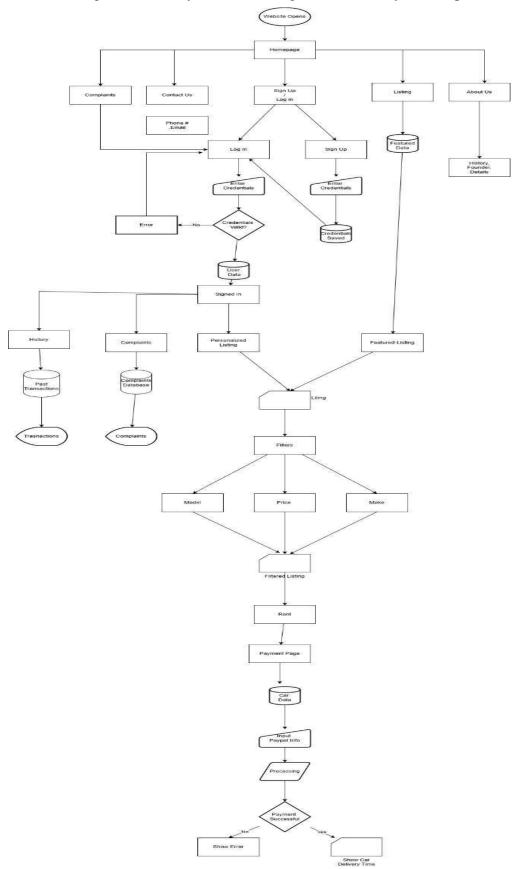
Deep Understanding about Software Flowchart using Draw.io

Practical Task:

Task # 1: Design a Process Flow Diagram of any Scalable App from Below:

Instagram





Task # 2: Design a Process/System Flow Diagram on One of your Unique idea

Lab # 2

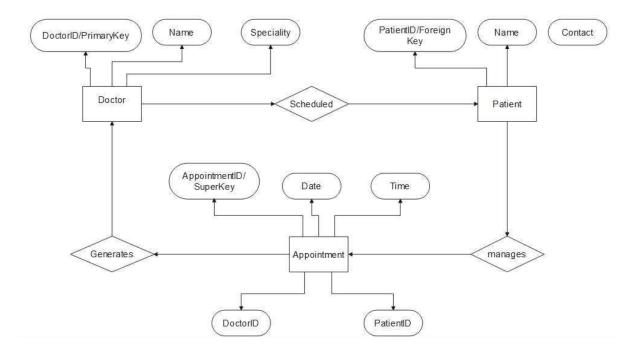
Understanding the Importance of Collaborative Work in Technical Software System Diagramming Using Lucid chart

Objective: To enable students to understand and appreciate the value of collaborative work in technical software system diagramming using tools like Lucid chart, Draw.io, or Miro.

Task

Collaborative Diagramming Assignment

Create a technical system diagram



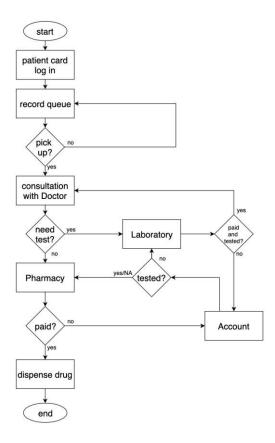
. Choose a system and define the scope.

Scope of the System:

- · Patient Registration and Management
- Doctor Scheduling and Availability
- · Appointment Booking
- Medical Records and History
- Billing and Payment System
- Pharmacy Integration (Optional)

 Admin Dashboard for Reporting and Control

Process Flow Diagram.



Group Member Responsibilities

Group Members:

- 1. Muhammad Asad Khan System Analyst & Diagram Designer
- 2. Sheikh Ammar Mustafa—Research and Scope Finalization
- 3. Muhammad Saad Documentation and Validation

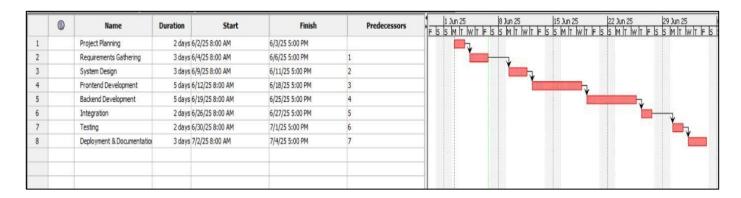
Lab # 03

Understanding and Familiarity with the Project Management Tool Using Project Libre

Objective: The objective of this document is to help students gain an understanding and familiarity with **ProjectLibre**, a free and open-source project management software. The document introduces core project management concepts and demonstrates the practical implementation of Work Breakdown Structures (WBS), Gantt Charts, and Scheduling using ProjectLibre.

Tasks

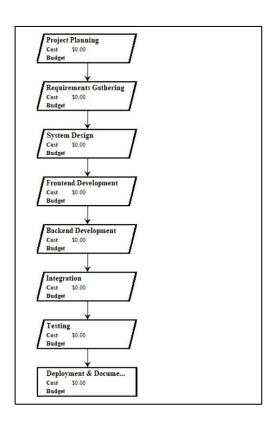
- 1. Install and Set up Project Libre.
- 2. Create a new project named "Student Management System / Student Portal"
- 3. Define the WBS structure for the project.
- 4. Enter at least 8 tasks and arrange them with dependencies.
- 5. View and analyze the Gantt Chart.



* WBS structure for the project.

- 1. Project Initialization
- 2. Requirement Gathering
- 3. Design Phase
- 4. Database Setup
- 5. Backend Development
- 6. Frontend Development
- 7. Testing
- 8. Deployment & Documentation

❖ View and analyze the Gantt Chart



(Name Name	Duration	Start	Finish	Predecessors	1 Jun 25 8 Jun 25 F S S M T W T F S S M T W T F
1	☐ Project Planning	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
2	☐ Requirements Gatheria	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
3	□ System Design	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
4	☐Frontend Developm	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
5	☐ Backend Developr	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
6	☐Integration	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
7	⊡Testing	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		
8	Deployment & C	3 days	6/2/25 8:00 AM	6/4/25 5:00 PM		

Lab # 4

Network Diagram Using Project Libre

Objective: Understanding the visualization of task dependencies using Network Diagrams.

Tasks

1. Create a WBS on Project Idea, must be Unique / Your Own / Your Last Semester Project

Project Title: To-Do List Application

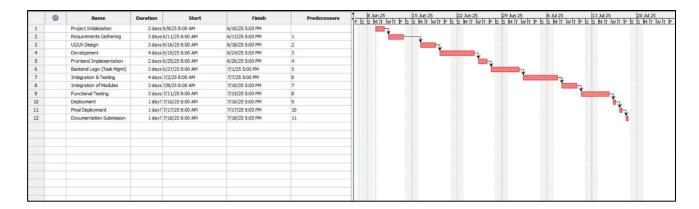
2. Define the WBS structure for the project.

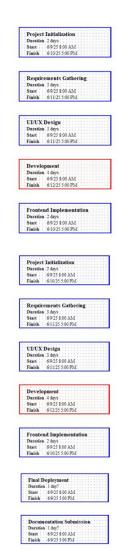
WBS Code	Task Name
1	Project Initialization
1.1	Requirements Gathering
1.2	UI/UX Design
2	Development
2.1	Frontend Implementation
2.2	Backend Logic (Task Mgmt)
3	Integration & Testing
3.1	Integration of Modules
3.2	Functional Testing
4	Deployment
4.1	Final Deployment
4.2	Documentation Submission

3. Enter at least 8 tasks and arrange them with dependencies.

6	Name	Duration	Start	Finish	Predecessors	Resourc
1	Project Initialization	2 days	6/9/25 8:00 AM	6/10/25 5:00 PM		
2	Requirements Gathering	3 days	6/11/25 8:00 AM	6/13/25 5:00 PM	1	
3	UI/UX Design	3 days	6/16/25 8:00 AM	6/18/25 5:00 PM	2	
4	Development	4 days	6/19/25 8:00 AM	6/24/25 5:00 PM	3	
5	Frontend Implementation	2 days	6/25/25 8:00 AM	6/26/25 5:00 PM	4	
6	Backend Logic (Task Mgmt)	3 days	6/27/25 8:00 AM	7/1/25 5:00 PM	5	
7	Integration & Testing	4 days	7/2/25 8:00 AM	7/7/25 5:00 PM	6	
8	Integration of Modules	3 days	7/8/25 8:00 AM	7/10/25 5:00 PM	7	
9	Functional Testing	3 days	7/11/25 8:00 AM	7/15/25 5:00 PM	8	
10	Deployment	1 day?	7/16/25 8:00 AM	7/16/25 5:00 PM	9	
11	Final Deployment	1 day?	7/17/25 8:00 AM	7/17/25 5:00 PM	10	
12	Documentation Submission	1 day?	7/18/25 8:00 AM	7/18/25 5:00 PM	11	

4. View and analyze the Gantt Chart & Submit screenshots of the WBS, Gantt Chart, and Network Diagram views.





5. Open the Network Diagram view and capture its screenshot.

