Experiment 07: Use project management tool to prepare schedule for the project.

Learning Objective: Students will be able to draw Gantt chart for the project.

Tools: Gantt chart, PERT.

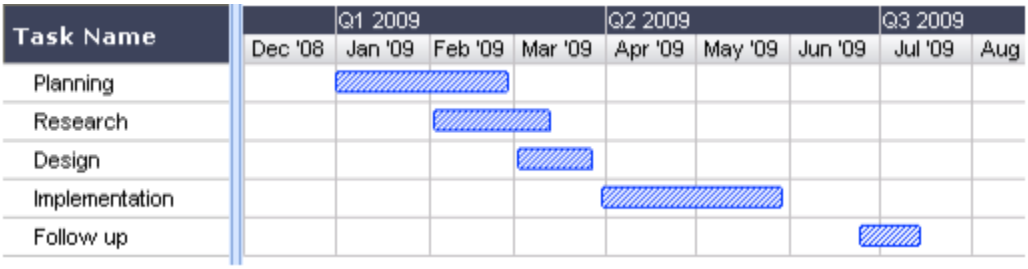
Theory:

The main aim of PROJECT SCHEDULING AND TRACKING is to get the project completed on time. Program evaluation and review technique (PERT) and Gantt chart are two project scheduling methods that can be applied to software development.
Split the project into tasks and estimate time and resources required to complete each task. Organize tasks concurrently to make optimal use of workforce. Minimize task dependencies to avoid delays caused by one task waiting for another to complete

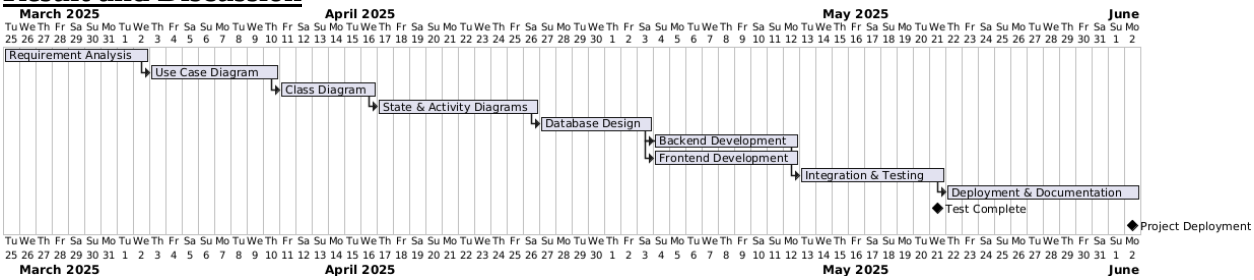
Gantt chart

A Gantt chart, commonly used in project management, is one of the most popular and useful ways of showing activities (tasks or events) displayed against time. On the left of the chart is a list of the activities and along the top is a suitable time scale. Each activity is represented by a bar; the position and length of the bar reflects the start date, duration and end date of the activity. This allows you to see at a glance:

- What the various activities are
- When each activity begins and ends
- How long each activity is scheduled to last ?
- Where activities overlap with other activities, and by how much
- The start and end date of the whole project



Result and Discussion



The project spans from March 25 to June 1, 2025, divided into four key phases:

1. **Planning**
   - Requirement Analysis and Use Case Diagram (March 25 – April 8)
2. **Design**
   - Class, State & Activity Diagrams, and Database Design (April 9 – May 2)
3. **Development**
   - Backend and Frontend Development (May 3 – May 17, in parallel)
4. **Testing & Deployment**
   - Integration & Testing (May 18 – May 27)
   - Deployment & Documentation (May 28 – June 1)

Milestones:

- Test Complete on May 27
- Project Deployment on June 1

Course outcomes: Upon completion of the course students will be able to draw the Gantt chart for the project.

Conclusion:

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				