

## Unit 2: Project Management

### Project Management :

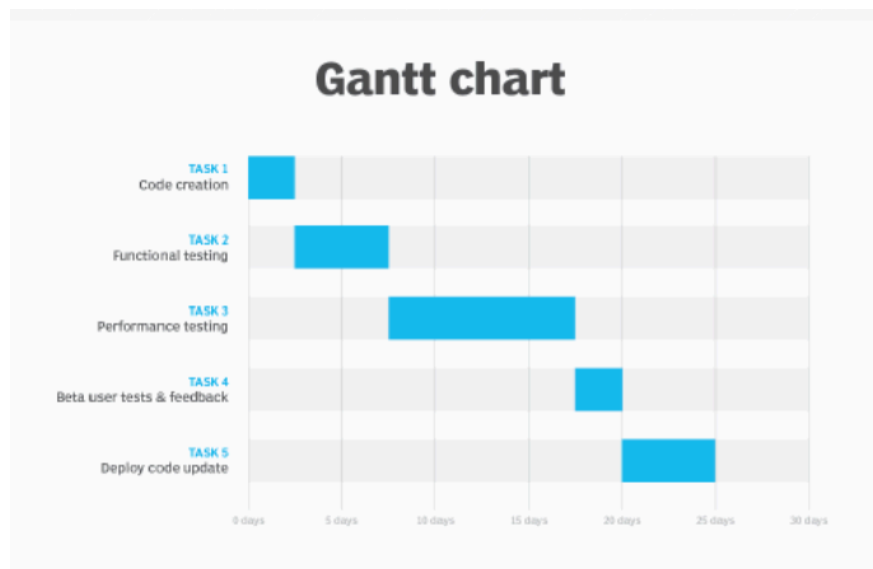
Introduces the responsibilities of project managers in overseeing schedules, resources, and team dynamics. Activities like defining project scope, managing risks, and ensuring stakeholder communication are crucial for successful project execution.



### Gantt chart

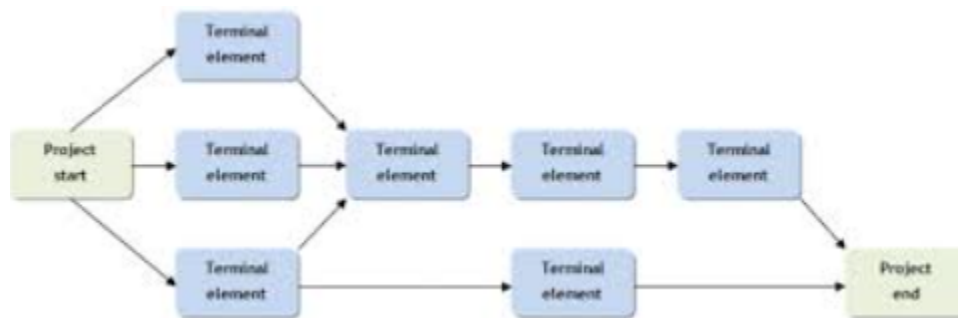
A gantt chart is a horizontal bar chart used in project management to visually represent a project over time. Gantt charts typically show you the timeline and status—as well as who's responsible—for each task in the project.

In project management, gantt charts are used to schedule, track, and communicate deliverables, deadlines, dependencies, and resource assignments. They're particularly helpful in managing complex projects with interdependencies that a simple to-do list or Kanban board can't handle.



## Network activity Diagram

Network diagram or an arrow diagram is defined as a process diagramming tool used to determine optimal sequence of events, and their interconnectivity. It is used for scheduling and to determine the critical path through nodes. The arrow diagramming method shows the required order of tasks in a project or process, the best schedule for the entire project, and potential scheduling and resource problems and their solutions. The arrow diagram lets you calculate the "critical path" of the project—the flow of critical steps where delays can affect the timing of the entire project and where addition of resources can speed up the project.



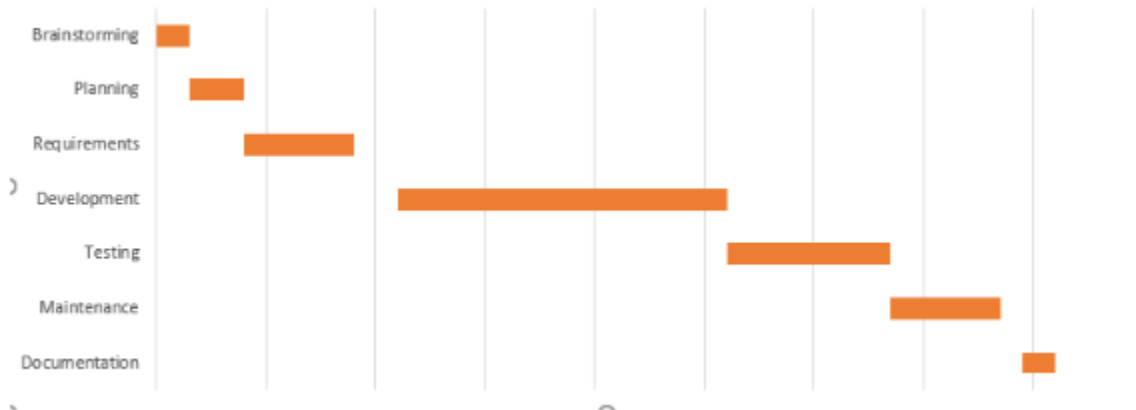
## Representing and Scheduling Project Plans:

Scheduling ensures that project tasks are completed on time and resources are used efficiently. Techniques for scheduling project plans involve breaking down tasks, assigning deadlines, and managing dependencies, allowing for better control over project timelines.

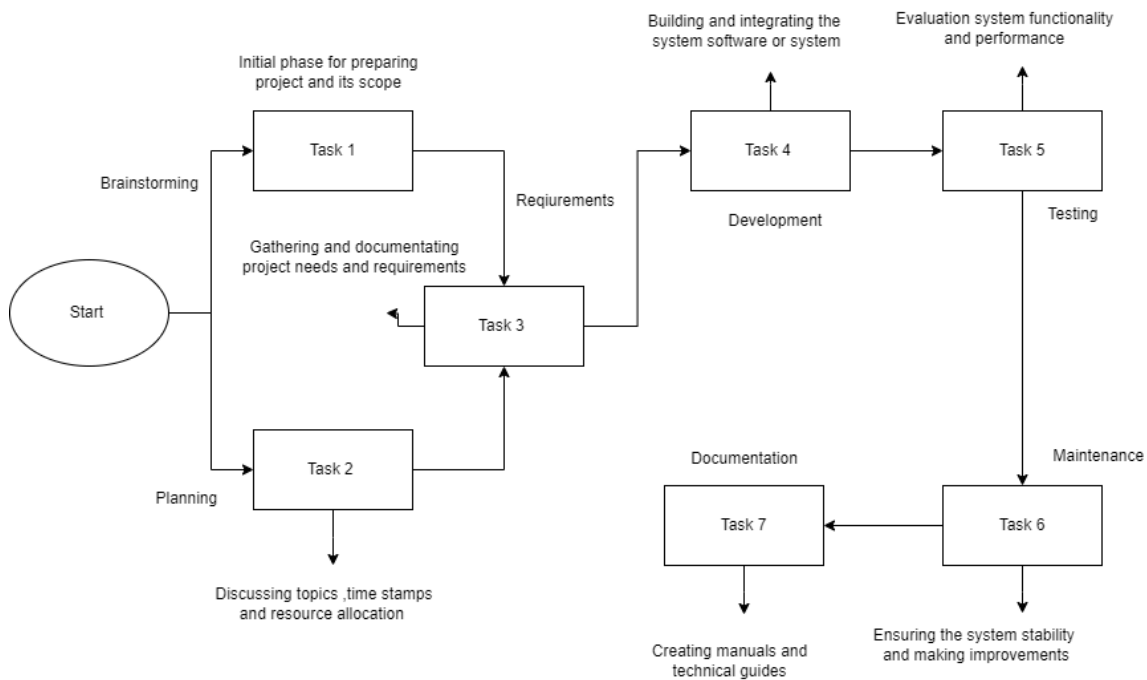
## Using Project Management Software:

Project management software like draw.io or macro helps streamline planning, scheduling, and resource allocation. These tools offer automated features for tracking progress, communicating with teams, and updating stakeholders in real time.

## Gantt chart and Network Activity Diagram of my Project



**fig:Gantt Chart**



**fig :Network activity diagram**

