



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2024-25

Experiment No. 5
Prepare timeline Charts to track progress for a case study. Assigned project
Name: Krisha Chikka
Std/Div: TE/1 Roll no. : 30
Date of Performance: 05/08/2024
Date of Submission: 12/08/2024



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2024-25

Aim: To Prepare timeline Charts to track progress for a case study. Assigned project

Objective: To analyse the case study for Currency Detector for the Visually Impaired and design a GANTT chart for the same.

Theory:

Gantt chart is a type of a bar chart that is used for illustrating project schedules. Gantt charts can be used in any projects that involve effort, resources, milestones and deliveries.

At present, Gantt charts have become the popular choice of project managers in every field.

Gantt charts allow project managers to track the progress of the entire project. Through Gantt charts, the project manager can keep a track of the individual tasks as well as of the overall project progression.

In addition to tracking the progression of the tasks, Gantt charts can also be used for tracking the utilization of the resources in the project. These resources can be human resources as well as materials used.

Gantt chart was invented by a mechanical engineer named Henry Gantt in 1910. Since the invention, Gantt chart has come a long way. By today, it takes different forms from simple paper-based charts to sophisticated software packages.

Available tools:

The simplest kind of Gantt chart can be created using a software tool such as Microsoft Excel. For that matter, any spreadsheet tool can be used to design a Gantt chart template.

If the project is small scale and does not involve many parallel tasks, a spreadsheet-based Gantt chart can be the most effective type.

Microsoft Project is one of the key Gantt chart tools used today. Especially for software development projects, MS Project based Gantt charts are essential to track the hundreds of parallel tasks involved in the software development life cycle.

There are many other Gantt chart tools available for free and for price. The features offered by these tools range from the same features offered by Excel based Gantt charts to MS Project Gantt charts. These tools come with different price tags and feature levels, so one can select the suitable Gantt chart tool for the purpose in hand.

Gantt chart represents following things:

- All the tasks are listed at leftmost column.



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2024-25

- The horizontal bars indicate or represent required time by corresponding particular task.
- When occurring of multiple horizontal bars takes place at same time on calendar, then that means concurrency can be applied for performing particular tasks.
- The diamonds indicate milestones.

Advantages:

- **Simplify Project** –
Gantt charts are generally used for simplifying complex projects.
- **Establish Schedule** –
It simply establishes initial project schedule in which it mentions who is going to do what, when, and how much time it will take to complete it.
- **Provide Efficiency** –
It brings efficiency in planning and allows team to better coordinate project activities.
- **Emphasize on scope** –
It helps in emphasizing i.e., gives importance to scope of individual tasks.
- **Ease at understanding** –
It makes it for easy stakeholders to understand timeline and brings clarity of dates.
- **Visualize project** –
It helps in clearly visualizing project management, project tasks involved.
- **Organize thoughts and highly visible** –
It organizes your thoughts and can be highly visible so that everyone in enterprises can have basic level of understanding and have knowledge about what's happening in project even if they are not involved in working.
- **Make Practical and Realistic planning** –
It makes the project planning practical and realistic as realistic planning generally helps to avoid any kind of delays and losses of many that can arise.

Disadvantages:

- Sometimes, using Gantt chart makes project more complex.
- The size of bar chart does not necessarily indicate amount of work done in project.
- Gantt charts and projects are needed to be updated on regular basis.
- It is not possible or difficult to view this chart on one sheet of paper. The software products that produce Gantt chart needed to be viewed on computer screen so that whole project can be seen easily.

Applications:

There are several professions, where use of Gantt chart is very beneficial. Some of them are given below:

- **Advertising Manager** –
Advertising Managers generally controls and supervises end result of advertising companies, scheduling advertisements in different media, etc.



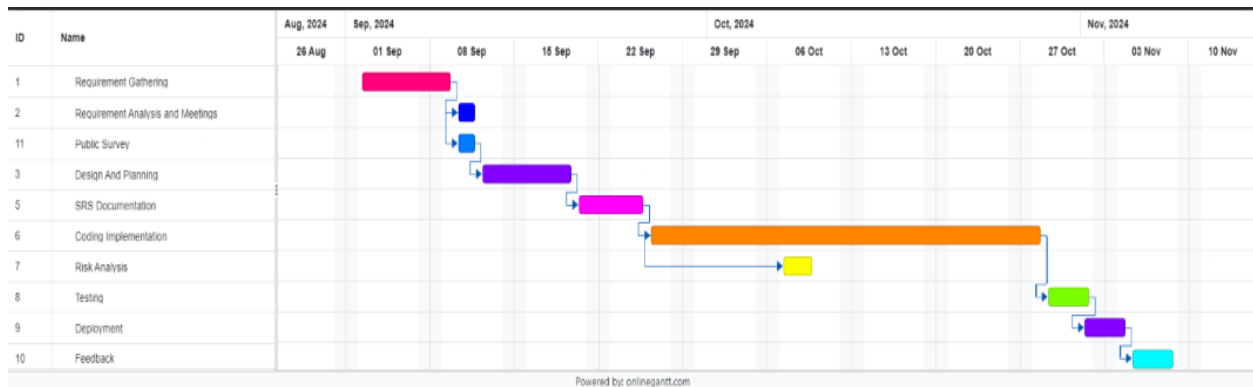
Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Academic Year : 2024-25

- **Operations** **Manager** —
Operations Managers generally control and handle resources that are essential for company operations.
- **Project** **Manager** —
Project Managers generally motivates project teams, collaborate with team members, schedule task and complete that on time, and report to stakeholders, etc.

Solution:



Conclusion: We have successfully prepared GANTT chart for Currency Detector for the Visually Impaired. In conclusion, the development of the Gantt chart for the Currency Detector for the Visually Impaired has proven to be an effective tool for managing and tracking project progress. By clearly outlining tasks, timelines, and milestones, the chart enhances coordination among team members and provides a comprehensive overview of the project's status. It facilitates efficient planning and allows for better resource allocation, ensuring that each phase of the project is completed on schedule. Furthermore, the visual representation aids in stakeholder communication, fostering transparency and understanding of the project's scope and objectives. Overall, the Gantt chart serves as a vital instrument in successfully guiding the project towards its completion.