

PLANNING



Types Of Plans

| Plan | Description |
|-------------------------------|-----------------------------------------------------------------------------------|
| Quality Plan | Describes the quality procedures and standards |
| Validation Plan | Describes the approach, resources and schedule used for system validation |
| Configuration Management Plan | Describes the configuration management procedures and structures used |
| Maintenance Plan | Predicts the maintenance requirements, costs and effort required |
| Staff Development Plan | Describes how skills and experience of the project team members will be developed |

Project Planning

- The following pseudo code sets out a project planning process
 - Establish the project constraints
 - Make initial assessment of the project parameters
 - Define project milestones and deliverables
 - While project not completed or cancelled loop
 - Draw up project schedule and initiate activities
 - Review project progress and estimated project parameters
 - Update project schedule
 - If problems arise then initiate technical review and find solution
 - End loop

Project Planning



Project Plan

- Sets out the resources available to the project and a schedule for carrying out the work.
The project plan includes the following sections
 - Introduction – Describes the objectives of the project
 - Project organization – Describes the way in which the development team is organized
 - Risk analysis – Describes the possible risks and their reduction
 - Hardware and software requirements- Hardware and Software required
 - Work breakdown – Set's breakdown of project activities
 - Project schedule – Shows the estimated time required to reach each milestone
 - Monitoring and reporting – Management reports that should be produced

Project Scheduling

- It is one of the most difficult jobs of project managers.
- Managers estimate time and resources required to complete activities and organize them into proper sequence.
- Schedule estimation is further complicated by the fact that different projects use different designs and methods.
- Project scheduling involves separating the total work involved in a project into separate activities and judging the time required to complete these activities.
- Some of the activities are carried out in parallel to avoid delay
- If a project is technically advanced certain parts of it may turn out to be more difficult and take longer time

Project Scheduling

- The following diagram shows the project scheduling process
 - Software Requirements
 - Identify activity dependencies
 - Estimate resources for activities
 - Allocate people to activities
 - Create project charts
 - Activity charts and bar charts
- Bar charts and activity networks are graphical notations that are used to illustrate the project schedule
- Bar charts show who is responsible for each activity and when the activity has begun and ended. Activity networks show the dependencies between different activities making up a project. Both these activities can be generated automatically from the database using a project management tool



Gantt chart

