Software Project Planning

- Project planning is an organized and integrated management process that focuses on the actions necessary for the project's practical completion.
- It avoids problems in the project, such as changes in the project's or organization's objectives, resource shortages, and so forth.

Project Planning Goals

- It establishes the project management team's duties and responsibilities.
- It guarantees that the project management team adheres to the company's goals.
- It examines the schedule's viability and the needs of the users.
- It establishes the project's limits.

Project Planning Guidelines

- Planning
- Risk Analysis
- Monitoring the project's progress
- Meet quality standards and offer high quality results
- Flexibility to accommodate change

Project Planning Process

- The project's objectives and scope.
 - Techniques for undertaking project planning.
 - Individuals participating in the project's effort (measured in time).
 - Timeline and milestones for the project.
 - The project will require specific resources.

Project Planning Activities

- Identification of Project Requirements
- Identification of cost estimates
- Identification of risk
- Identification of Critical Success factor
- Preparation of Project Charter
- Preparation of Project Plan
- Commencement of the Project

Need of Project Management

- Software is a intangible product.
- Every software development is a kind of all new stream in world business.
- Most software products are tailor made to fit client's requirements.
- Changes in technology and advances so frequently and rapidly that experience of one product may not be applied to the other one
- Business and environmental constraints bring risk in software development.

Need of Project Management

- It is an essential part of software organization to deliver quality product.
- keeping the cost within client's budget constrain and deliver the project as per scheduled.
- Other factors that affect project development in time are.
 - Time
 - Cost
 - Quality

Project Manager

- keeping the cost within client's budget constrain and deliver the project as per scheduled.
- Project manager monitors SDLC activities, controls and manages the activities involved in production.
- PM addresses issues of cost, budget, resources, time, quality and customer satisfaction.
- Project Manager responsibilities:
 - Managing People
 - Managing Project

Managing People

- Act as project leader
- Liaison with stakeholders
- Managing human resources
- Setting up reporting hierarchy etc.

Managing Project

- Defining and setting up project scope
- Managing project management activities
- Monitoring progress and performance
- Risk analysis at every phase
- Take necessary step to avoid or come out of problems
- Act as project spokesperson

Causes of failure of projects

- Failure to establish upper-management commitment to the project.
- Lack of organization's commitment to the system development methodology.
- Taking shortcuts through or around the system development methodology-
- Poor Expectation Management.
- Premature commitment to a fixed budget and Schedule

Causes of failure of projects

- Premature commitment to a fixed budget and Schedule
- Poor estimating Techniques
- Over optimism
- The mythical Man month
- Inadequate people management skills
- Failure to adapt business change
- Insufficient Resource

Project Management Plan

- A PMP is a formal document prepared by the project manager, that documents project goals ,what are the processes to be executed, and how they will be monitored and controlled to accomplish these goals.
- The project management plan outlines the scope, budget, goals, timeline, and project deliverables.

Steps to create project Plan

- Describe the project Plan to Key Stakeholders.
- Define Roles, Responsibilities and Resources
- Create a Project Scope
- Graft An Extensive Project Schedule
- Create Baseline Management Plans
- Define the staffing Plan
- Plan for When Thing Don't go as Planned
- Analyze Product Quality
- Communication Plan

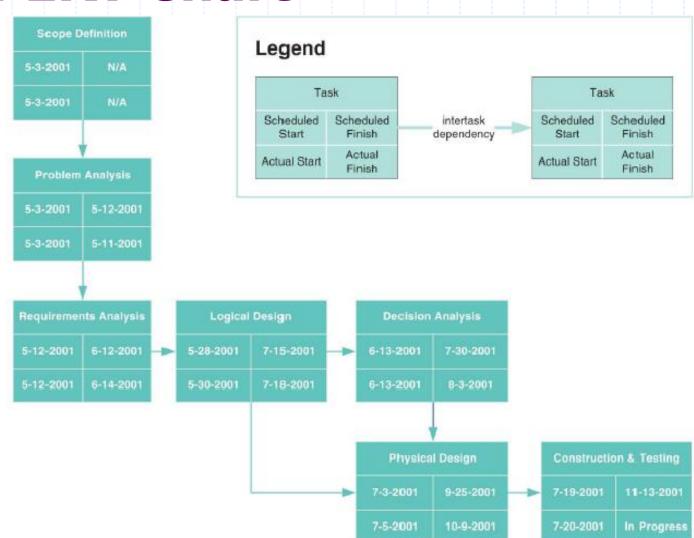
Gantt Chart

ID	Task Name	2001						
		May	Jun	Jul	Aug	Sep	Oct	Nov
1	Problem Analysis					*		
2	Requirements Analysis							
3	Logical Design							
4	Decision Analysis							
5	Physical Design							
6	Construction & Testing							
7	Implementation & Delivery							



Today

PERT Chart



Resource require in Project

- Services
- Labour
- Equipment
- Materials
- Money
- Space
- Time

How to manage resource in software projects

- Plan Resources Management
 - Estimate Activity Resources
 - Acquire Resources
 - Develop Team
 - Manage Team
 - Control Resource

Project Management Skills

- Effective Communication Skills
- Negotiation
- Scheduling and Time Management
- Leadership
- Technical Expertise
- Risk Management
- Critical Thinking and Problem Solving

Risk Assessment

- Identifying, assessing, and controlling hazards and risks in the systematic process is the meaning of risk assessment.
 - Determining which safeguards are in place—or ought to be—to eliminate or manage risk in the workplace in any conceivable circumstance is the responsibility of a competent person.
 - These evaluations aid in identifying these innate risks and offer countermeasures, procedures, and controls to lessen their adverse effects on business operations.

Risk Assessment Steps

- Identify the Hazards
 - Determine what, or who, could be harmed.
 - Evaluate the risk and develop control measures.
 - Record the findings.
 - Review and update risk assessment regularly.

Risk Management

- Risk assessment includes both identification
 of potential risk and the evaluation of the
 potential impact of the risk.
- A risk mitigation plan is designed to eliminate or minimize the impact of the risk events—occurrences that have a negative impact on the project.
- Identifying risk is both a creative and a disciplined process.

Risk Management

- Risk Identification
- Risk Evaluation
- Risk Mitigation
 - Risk Avoidance
 - Risk Sharing
 - Risk reduction
 - Risk Transfer

Steps in the Risk Management Process

- Identify
- Assign Ownership
- Analyze
- Prioritize
- Respond
- Monitor

Tips to reduce and Management Risk

- Create a Project Management Plan
- Keep your risk register up to date
- Understand the event
- Be Proactive instead of reactive
- Develop your Project Management Skils

Service Contract Include

- Service description and scope
- Project Time and Cost
- Acceptance Testing and Delivery
- Warranties and Liabilities
- Intellectual Property transfer
- Privacy and Confidentiality
- Success Matrix
- Pricing and Billing