EXPERIMENT NO. 07

AIM: Use project management tool to prepare schedule for the project. 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

Task Name	Q1 2009				Q2 2009			Q3 2009	
lask Name	Dec '08	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug
Planning									
Research									
Design									
Implementation									
Follow up							0		

RMMM plan:

The risk components are defined in the following manner:

- **Performance** risk—the degree of uncertainty that the product will meet its requirements and be fit for its intended use.
- **Cost** risk—the degree of uncertainty that the project budget will be maintained.
- **Support** risk—the degree of uncertainty that the resultant software will be easy to correct, adapt, and enhance.
- **Schedule** risk—the degree of uncertainty that the project schedule will be maintained and that the product will be delivered on time.
 - The impact of each risk driver on the risk component is divided into one of four impact categories—negligible, marginal, critical, or catastrophic.



Componen		Performance	Support	Cost	Schedule	
	1	Failure to meet the would result in miss	requirement ion failure	Failure results in incre and schedule delays values in excess of \$2	with expected	
Catastrophic	2	Significant degradation to nonachievement of technical performance	Nonresponsive or unsupportable software	Significant financial shortages, budget overrun likely	Unachievable IOC	
	1	Failure to meet the degrade system per where mission succ	formance to a point	Failure results in operational delays and/or increased costs with expected value of \$100K to \$500K		
Critical	2	Some reduction in technical performance	Minor delays in software modifications	Some shortage of financial resources, possible overruns	Possible slippage in IOC	
	1	Failure to meet the result in degradatio mission	requirement would in of secondary	Costs, impacts, and/schedule slips with ea of \$1K to \$100K	or recoverable spected value	
Marginal	2	Minimal to small reduction in technical performance	Responsive software support	Sufficient financial resources	Realistic, achievable schedule	
	1	Failure to meet the create inconvenient impact	requirement would se or nonoperational	Error results in minor schedule impact with of less than \$1K	cost and/or expected value	
Negligible		No reduction to	Eastle suppostable	Describle booleast	Contra	

Impact assessment

For risks with high impact and high probability create a RMMM plan

	Risk inform	ation sheet	50
Risk ID: P02-4-32	Date: 5/9/02	Prob: 80%	Impact: high
Description: Only 70 percent of the integrated into the appropriate developed.	ne software compone oplication. The remai	nts scheduled for ning functionality	reuse will, in fact, be will have to be custom
Refinement/con Subcondition 1: Cert with no knowledge of Subcondition 2: The is solidified and may no Subcondition 3: Cert language that is not a	ain reusable compon- f internal design stan- design standard for c ot conform to certain tain reusable compor	dards. omponent interfa existing reusable ents have been in	ces has not been components.
Mitigation/mon 1. Contact third part 2. Press for interface deciding on interface	itoring: by to determine conformations standards completion oprotocol. the number of compor	rmance with design; consider comp	gn standards. onent structure when ion 3 category; check
	20,200. Allocate this dule assuming that 1 staff accordingly.	amount within p 8 additional com	roject contingency cost ponents will have to be
Trigger: Mitigation s	teps unproductive as	of 7/1/02	
Trigger: Mitigation s Current status: 5/12/02: Mitigation		of 7/1/02	

Result and discussion:



<u>Conclusion:</u> Through this experiment, we were able to learn about project scheduling using Gantt chart and implemented the same for doctor's appointment system. The tasks were scheduled till the entire project was completed and it was successfully implemented.

For Faculty Use

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