Learning Journal - III

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Course: SOEN 6841- Software Project Management

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Dates Range of activities: 9/10/2024 - 12/10/2024, 18/10/2024 - 22/10/2024

Date of the journal: 9/10/2024

Key Concepts Learned:	Application in Real Projects:	Peer Interactions:	Challenges Faced:	Personal development activities:	Goals for the Next Week:
Project planning has two approaches, top down and bottom up. Top-down approach is used when for software product development where you have a deadline and budget set. Whereas, bottom-up is used mostly for software application projects and when requirements are not clear so it is hard to estimate	Software application development is for developing a software for the organisation, to increase productivity. Requirements are sometimes not clear and there is no high pressure on delivering the software before a certain timeline. Hence, bottom-up approach is used. Both techniques involve estimating cost,	Discussed with my classmate who was a project manager about how planning is done in real life projects. Many rounds of thorough analysis to ensure the estimation of cost	Understanding CPM method, on how the tasks in the critical method are determined.	Read case studies for project planning and the importance of artifacts produced at this stage like, tool and supplier management,	Read more case studies on bottom- up approach
the project timeline. Work breakdown structure involves breaking down the work to pseudo tasks (Designing, Implementation, Testing) which is further broken down into individual tasks with set start and end time. End of pseudo task is a milestone.	quality, schedule, effort etc. Work breakdown structure is used to estimate the effort for individual tasks by allocating the number of resources required and start and end time. It is a primary artifact to assess whether the schedule is going according to plan.	and budget	Difference between milestone and quality gate. Milestones tell you about progress of a project in terms of work unlike quality gate.	CPM. Saw recommended templates for work breakdown structure online.	Read case studies on how work breakdow n is implemen ted in real projects
Project Monitoring involves assessing whether the software development process is going according to plan by measuring against planned and actual metrics. The project's budget used, schedule, work done and quality are assessed. Not	Monitoring a project is the first step to ensure control of issues and risks. The kind of metrics measurable is determined by software process maturity. More mature a software, better monitoring and better control that ultimately	Discussed with my classmate who was a project manager about how monitoring is implemented in real projects. It is done at frequent	Difference between basic COCOMO and intermediate COCOMO. Intermediate and COCOMO II used cost and scale factors	Read the chapter case study to understand how it is implemented in an iterative project development.	-

norforming from ont	determines the success of a	docided intervals	that are		
performing frequent	determines the success of a	decided intervals	that are		
monitoring may lead to	project. First step of	and the result is	industry set		
failure of the project as it no	monitoring is data collection.	sent to the	constants.		
longer meets the customer's	Data has to be accurate and	respective teams.			
expectations.	meaningful.				
Control refers to the	Taking control is time	-	Difficulty in	Read how	Read
required action taken when	sensitive. More the delay,		understanding	critical path is	more
there is a deviation between	more impact and cost it		how scheduling	used to	case
actual and planned	takes to recover and to put		tasks using gaps	monitor and	studies
cost/budget, work done,	the project back on track.		helped resolve	control	on the
schedule or quality.	Sometimes, it even ends up		task conflict.	different	same.
Prerequisite of control is	in cancelling the project.			aspects of	
project planning and	Timely feedback is also			progress.	
monitoring. Different	important to ensure all				
techniques like remove	parties involved are also				
schedule conflict, remove	aware about the				
gaps from critical path tasks,	progression.				
etc. can be used.					
Earned Value Analysis	Delivering a software project	-	Faced difficulty	Read	Re-read
involves how much work	within the budget is very		in	examples to	this topic
should've been done in	important. EVA helps		understanding	understand	in text
terms of profit for the	determine whether project is		schedule and	how budget	book for
amount of budget	progressing well. It helps		cost variance	and time	more
consumed. EVA is necessary	project managers to assess		calculation	together is	understan
because work and budget do	the completion of the		based on EV	used to	ding.
not show a linear growth.	project in terms of		value.	determine the	
	profit/money.			progress.	

Final Reflections:

Overall Course Impact:

Planning and Monitoring and control are important stages of software project management. Most of the time is spent on these phases. Proper planning ensures the success of monitoring and proper monitoring ensures appropriate control so that the any deviations from the plan can be removed in proper time.

Application in Professional Life:

By applying the skills and knowledge from these chapters, I can improve my effectiveness in planning software development projects by providing a detail estimate of cost, schedule, quality and use them in project monitoring and control phase to ensure the project is going according to plan and if it is not, take according actions to put it back on track. These practices will not only streamline project workflows but also create a more resilient and responsive team environment.

Peer Collaboration Insights:

I learned how theory applies to real-life projects, emphasizing that careful consideration of the kind of control technique used to deal with a deviation. Each scenario and project are unique, requiring thorough analysis of its complexity before making any decision.

Personal Growth:

I gained a clearer understanding of project planning and monitoring and control, recognizing that it is not straightforward and that project managers play a critical role in a project's success.