<u>**Learning Journal**</u>

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Course: Software Project Management

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Week 1: 18 Jan 2024 – 24 Jan 2024

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Key Concepts Learned:

- Learned about software project management, tasks associated with project management and challenges associated with it and the impact of it on the project.
- Studied about project management processes:
  1. Software Project Initiation which is further divided into three parts:
     i. Application Development Project Initiation which includes tasks like project charter, project scope, project objectives, effort estimate, and cost estimate.
     ii. Product Development Project Initiation which includes market analysis, product features, marketing channels, and delivery method.
     iii. Product implementation Project Initiation which includes customization effort and migration from legacy system.
  2. Software Project Planning – This includes software engineering processes that can be executed either linearly or with iterations.
  3. Software Project Management and control is needed to rectify an event.
  4. Software Project closure means all the project artifacts are analyzed and the project is marked as complete.
- Learned about management metrics and seven tools of quality.
- Learned how to write a project charter, define a project scope and project objectives.
- Learned how to estimate project size, project effort and costs and project schedule.
  1. Project Size: Break down the product into different parts and calculate the size of each module
  2. Project effort and costs: Determined by number of hours put in by software professionals, hourly rate of software professionals and productivity of the team members.
  3. Project schedule: Sometimes stakeholders may ask the project manager to complete the project faster due to marketing.
- Studied about stakeholder influence (how the involvement of stakeholders at the beginning of the project helps in good project progress).
- Learned about project division (done when you are unclear about how to proceed with the project). This can be done in 2 ways:
  1. Dividing the project into 2 parts – developing requirements and software application development.
  2. The other way is to include the involvement of customers, experts and service providers.

Application in Real Projects:
Below are some points on how project management concepts can be applied in real-world projects:

- In software projects, project initiation means defining the project scope, objectives and requirements.
- Project planning involves creating project timelines, resource allocation and task dependencies.
- Project execution means carrying out the project plan, developing software and delivering project milestones.
- Project monitoring involves identifying the issues and keeping track of the project's progress.
- Project closure involves finalizing the project.

The benefits of applying the project management concepts lead to successful project delivery, efficient resource utilization, cost efficiency and customer satisfaction.

Potential challenges include poor understanding of requirements or changing the requirements more often.

Challenges Faced:
I had difficulty in understanding how the man months were calculated. For that, I talked to one of my classmates and she explained it to me.

Personal development activities:
- Doing at least 5-10 Java questions on LeetCode every day.

Goals for the Next Week:
- Making notes of Chapters 3 and 4 for this subject.
- Talk with my teammates for the project discussion.