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**Course:** SOEN 6841

**Journal URL:** https://github.com/itshisher/SOEN-6841-learning-journal/tree/main

**Week 1:** January 18 – January 24

**Date:** January 21

**Key Concepts Learned:**

Chapter 1

What is a project?

* Any set of activities can be considered to be a Project if they have a definite start time and end time and these set of activities achieve some pre defined goals

What is a software project?

* Software development and software maintenance projects together
* Untouchable
* Invisibility
* Complexity
* Conformity
* flexibility

What processes are involved in a software project?

* Evolving processes beyond a project (organization processes)
* Project management processes (project initiation, planning, control, monitoring, and closure)
* Software development life cycle (SDLC) processes (requirements, design, build, testing, maintenance, etc.)

How are people, processes, tools, and technology integrated in a project?

* Organization level processes top level process
* Software development lifecycle lowest level
* Customer has the most influence
* Deal with project team members
* Suppliers' management
* Technology management

What are the characteristics of a good project manager?

* Understand project management
* Understand software engineering
* Understand technology and tools
* Manage team, customer and suppliers
* Work under organization

What are the subprocesses in the area of project management processes?

* Software project initiation (application, product, and product implementation initiation)
* Software project planning
* Software project monitoring and control
* Software project closure

What management metrics are measured in software projects?

-metrics should be relevant, meaningful, practical, calibration ability, and activity level.

* Check sheet
* Histogram
* Pareto charts
* Cause and effect diagrams
* Scatter diagrams
* Control charts
* Graphs

Outbound logistics - movement of truck from retailer’s warehouse to retail outlet

Inbound logistics - the movement of truck from manufacturer’s/distributor’s warehouse to retailer’s warehouse, the truck usually belongs to third-party logistics service providers (3PL)

Chapter 2

How is a project initiated?

* Just like any other types of projects

What is a project charter?

* a statement from the top management
* A big picture of the effort
* Project goals, objectives, major responsibilities allocation...
* defines the purpose for starting the project
* Business goals which the project is being initiated and that the project will help in achieving business goals

What is project scope?

* A number of features
* Quality level
* to define boundaries of the project

What are project objectives?

* A set of well-defined objects that must be met by completion of the project
* Set and stated by stakeholders

What project activities are performed during project initiation?

* Estimate initial project size (rough one)
* Estimate initial project effort and costs
* Estimate initial project schedule
* Create initial project plan to satisfy the customer
* Stakeholders
* Quality planning
* Feasibility study
* Project division

**Application in Real Projects:**

Chapter one gives a general idea of what a software project is and what processes are required in a software project. Additionally, it tells me about project management and how important a good project manager is to a software project.

Chapter two mentions how a software project is initiated and the importance of a project charter, project scope, and objectives of the project. There are also important activities during the project initiation.

It reminds me of my other projects from taking other courses in Concordia. Some of them are not really worked out by the end of the semester, some of them I would rather call them assignments instead of real software projects. If I continue to work in this field, these can be applied to my future software projects. Instead of searching for answers from the internet, I can start identifying processes and software management steps. To start the project, our group must decide the project charter, scope and the objectives to not lead the situation to chaos.

**Peer Interactions:**

Find group members for the future project. Discuss and chat with some friends that I met last semester.

**Challenges Faced:**

Exercises are very open and applied to real world cases. It takes time to search for useful information and pick the one that is suitable for me. I’m not sure if the information is correct because there is too much noise.

**Personal development activities:**

I'm still under the process of going through all the course outlines and trying to figure out the requirements (programming languages, course weight) for each course.

I started learning Python data structures on Udemy and did some problems on LeetCode.

**Goals for the Next Week:**

Readings for chapter 3, 4, and 5. Pay attention to the activity next lecture which is about the project initiation. Also need to do exercises for the chapters.