Learning Journal 3

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Course: [Software Project Management(SOEN 6841 W 2244)]

Journal URL: [https://github.com/Bailin-Xu/Class-6841]

Dates Range of activities: [0224-0316]

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Key Concepts Learned:
Project Monitoring & Control:
Project monitoring involves collecting data on project progress to ensure the project team implements the plan correctly. Control ensures project delivery according to schedule, cost, and quality by applying corrective actions as necessary.

Establishing Baselines:
Creating accurate project baselines in terms of cost, schedule, performance, and scope. Baselines are benchmarks against which actual performance is measured.

Performance Measurement:
Regularly monitoring and measuring project performance against established baselines. This includes tracking percentage completion, costs incurred, quality checks, and scope changes.

Earned Value Management (EVM):
A quantitative technique for integrating cost and time to measure project progress and performance effectively. EVM helps identify schedule and budget variances.

Variance Analysis and Corrective Actions:
Comparing actual performance with planned performance to identify variances. Based on this analysis, corrective actions may include re-planning, resource reallocation, adjusting milestones, or revising project scope.

Resource Loading and Optimization:
Monitoring resource utilization to determine if resources are over or under-loaded, and applying techniques such as resource leveling and schedule optimization to address deviations.

Application in Real Projects: Crowdsourced Mental Health Data Platform
Baseline Establishment:
Clearly defined baselines will be crucial for your platform development, such as setting milestones for the AI engine implementation, user interface design, and feedback system integration. These milestones act as benchmarks for progress tracking.

Performance Measurement:
Regular performance monitoring can ensure the timely delivery of critical components like data privacy measures, anonymous data collection functionalities, and AI-driven analysis algorithms, essential for maintaining user trust and satisfaction.

Earned Value Management:
Using EVM can significantly enhance your project's ability to quantify progress, enabling early detection of potential delays in the development of the feedback collection interface or the AI engine. Prompt identification and corrective measures help maintain budget and schedule integrity.

Variance Analysis & Corrective Actions:
Your project can benefit from detailed variance analysis to anticipate and correct potential deviations. For example, if the AI analysis component development lags behind schedule due to complexity, corrective actions such as redistributing developer resources or adjusting delivery milestones can be applied proactively.

Resource Loading and Optimization:
Given the specialized nature of your project, monitoring the workload of key team members like AI developers, UI/UX designers, and privacy specialists is vital. Resource optimization techniques can address issues like underutilization or excessive workload by realigning tasks or employing additional resources, ensuring balanced progress and efficient use of the team's capabilities.

By systematically applying these project monitoring and control concepts, your Crowdsourced Mental Health Data Platform can ensure a structured, efficient, and successful project execution, ultimately fulfilling its goal to enhance accessibility and effectiveness of mental health services.

Peer Interactions:	**Challenges Faced:**	**Personal development activities:**	**Goals for the Next Week:**
Our team made a lot of discuss on feasibility study(since a person left out group), I am now taking operational viability part to write besides risk part.	I find it hard to relate the concepts learned in class and textbooks to the real projects, and there are a lot of controversy in risk management and different risk response strategies.	Review all the ppts and textbook chapters. Especially for risk part.	Refine Risk Assessment and Mitigation part, and mix it into the whole deliverable.
Our team made a lot of preparation for the project pitch, and finally decide who to do the presentation, and we created script for him. During the pitch, we collaborated very well.	A lot of deliverables in the coming deliverable, everyone in group should at least do a single part, it is hard to connect them in a whole and make all parts in a same pace	Refine the Risk Assessment and Mitigation, searched for different risk response strategies and tried hard to distinguish them	Help the team to finish the next submission of our project
We finished a draft and held several meetings over it.	One of our team members left, we have to do her part together	Take part in all group discussion	Enhance communication efficiency in our group