

# INFO-505-Software Project Management

## Assignment 2

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**Q1a) (4Pts) a) Give your own example project describing the roles of the following:**

- Product owner 1pts
- Dev Team 1pts
- Stakeholders 1pts
- Functional Manager 1pts

**Answer:**

While I was at Morgan Stanley, I worked on the Structured Product Execution and Quoting (SPEAQ) API platform in the Equity Structured Trading department. This project was designed to help financial institutions quote and execute structured products more efficiently. We worked as a large team spread across locations like Budapest, London, Hong Kong, and India.

**The following are the roles and responsibilities:**

**Product Owner:** The Product Owner worked closely with our clients and internal teams to understand what the project needed to achieve. They prioritized tasks and features based on client needs and industry trends. They also attended sprint meetings to make sure the development team was building exactly what was required.

**Development Team:** I was part of the development team responsible for coding new features and fixing bugs. We used JIRA to manage our tasks and worked in one-week sprints, from Wednesday to Wednesday. Before each sprint, we would confirm any planned days off to set realistic goals. During the sprint, we focused on our assigned user stories and collaborated with the QA team to ensure everything was functioning as expected.

**Stakeholders:** Our main stakeholders were three private financial institutions, along with Morgan Stanley's internal leadership. They shared their goals for the project and gave feedback on the progress. They often joined sprint reviews to stay updated and, at times, attended retrospectives to discuss any adjustments needed.

**Functional Manager:** The Functional Manager made sure our team had the resources we needed and managed to work across different teams. They collaborated with the Product Owner and Scrum Master to solve any issues and kept us focused on delivering a solution that met client standards.

**b) (8Pts) In your project provided explain how they get involved in the following events and how?**

- **Sprint Planning 2pts**
- **Daily Scrum 2pts**
- **Sprint Review 2pts**
- **Sprint Retrospective 2pts**

**Answer:**

In the SPEAQ API project at Morgan Stanley, our team followed Agile practices with regular meetings, or "sprint ceremonies," led by the Scrum Master.

**Sprint Planning:** In Sprint Planning, the Product Owner was heavily involved, providing details on each user story and explaining the expected outcome. They clarified the priorities and worked with the development team to decide what tasks to include in the sprint. The team reviewed story points to ensure each task had an accurate effort estimate, adjusting if necessary. The Functional Manager attended to ensure resources were allocated appropriately and that any technical dependencies were addressed early. Stakeholders were not directly involved but had their needs represented by the Product Owner, who ensured the work aligned with their expectations.

**Daily Scrum:** The Daily Scrum was a brief, 15–25-minute stand-up meeting where each development team member shared their progress, plans, and any blockers they faced. This meeting, led by the Scrum Master, helped keep everyone in sync. The Functional Manager sometimes attended to address immediate needs or technical issues, while the Product Owner and Stakeholders were not typically present, as they focused on overall project progress rather than day-to-day details.

**Sprint Review:** The Sprint Review was held at the end of each sprint and provided an opportunity to showcase completed work. The Product Owner attended, reviewing the results to confirm that the deliveries met the client's expectations and business needs. Relevant Stakeholders were also invited to observe and provide feedback, allowing them to see progress firsthand and ask questions. The Functional Manager joined to discuss technical aspects or address any issues related to future work, especially if there were dependencies on other teams or resources. This meeting helped align the team's efforts with the stakeholders' expectations and received feedback for improvement.

**Sprint Retrospective:** The Sprint Retrospective was an internal meeting where the development team, Functional Manager, and Scrum Master reflected on what went well, what could be improved, and how to make the next sprint more effective. The Product Owner sometimes joined to offer insights, though Stakeholders did not usually attend. The Functional Manager contributed by identifying any areas where resources or processes could be adjusted to help the team work more efficiently. This meeting helped the team continuously improve and refined their approach for the next sprint.

**Q2. (8Pts) Give your own example of a project where you can describe the correlation between scope, schedule and cost. What role does quality management play for the example you provided ?**

**Answer:**

In my role as a Module Leader and Java Developer on the RBI Central Information Management System (CIMS) project, I worked on a module called "Publication." This module aimed to automate the regular publication process for the Reserve Bank of India, which involved releasing weekly, fortnightly, and monthly reports. The original plan was to develop automation only for these specific types of reports and a few select publications. We had a 9-month timeline to complete the project, with a well-defined budget based on this scope.

About six or seven months in, the project scope changed. Seeing the success of the automation for the selected reports, the RBI decided that it would be helpful to include more publications, including annual reports, with a few internal adjustments. This expanded scope meant additional development work, which impacted both the timeline and cost of the project. We had to extend the schedule to allow time for these new features and allocate extra resources, which naturally increased the project's overall budget.

To complicate things further, during the extended project period, a security analysis identified some serious vulnerabilities. Fixing these security issues became an urgent priority, and it required extra work from both development and quality assurance teams. This added more to our timeline and pushed up costs since we had to bring in additional resources to tackle the improvements in security without compromising on the project's original objectives.

### **Role of Quality Management**

Quality management was crucial throughout the project, especially as we dealt with the increased scope and security challenges. Our quality team performed regular testing and code reviews, which helped us catch issues early. When we expanded the scope, the quality management process ensured that each new feature met RBI's standards. Similarly, as we addressed security vulnerabilities, the QA team made sure all patches met strict security standards before the updates were released. By keeping the focus on quality, we were able to maintain a stable, secure product even as the project grew. This approach was essential for delivering a reliable application that met RBI's expectations.