

**CS453 – Application Lifecycle Management – Homework 2**

**1. What are the advantages of having a daily-scrum meeting?**

- Daily scrum increases the sense of cooperation and performance of each team member. You should talk about your responsibilities and actions in each day's meetings. So if there is no performance, there is nothing to talk about.
- Daily scrums increases the traceability of the development process because members have chance to keep track of project development on each day and understand both the sprint status and overall status of the project.
- Daily scrums can help for problem management and error handling. Every meeting is a chance to describe the problems and errors that have occurred recently. So the team can take action to solve them as soon as possible before the problems grow.
- Daily scrums increases the chance that team will meet the sprint goal. Meeting the sprint goals mean meeting the project goals and estimated deadlines. So a project that was delivered at the right time is important for return on investment.
- Daily scrums provide better environment for prioritization of the tasks.

**2. During the sprint planning meeting, the scrum team estimates that the current work planned exceeds the capacity of the team. Who is responsible for solving this problem? And how do you think the problem would be solved?**

Product owner is responsible for solving the problem because product owner is responsible from product backlog management. Having trouble on exceeding capacity indicates that product backlog management is not well done. Problem can be solved by re-scheduling the current sprint and fairly distribute the extra work load to the other sprints.

**3. In what aspects DevOps and Scrum align and contradict with each other?**

DevOps and Scrum have similar aims for processing and delivering a product. First of they both have shorter delivery cycles which brings incremental approach for releases. Also having feedback is important concept for both of them to improve quality of the process and product by preventing waste and delays. Although these two concepts have the same goals, their focus varies. Scrum is more focused on team collaboration by giving importance to values, culture and team interactions. DevOps is more focused on technical side like having a great flow by an good working automation. But

that doesn't mean that the scrum is not interested in automation and DevOps never care about the communication. In summary DevOps looks for creating a more stable environment to have speed and efficiency in development process however scrum is more focused on handling and giving fast responses for changes.

**4. What benefits do DevOps bring to the cross-functional paradigm? Answer from a practical and cultural perspective separately.**

In terms of practical perspective, members of the team should widen their knowledge for being a cross-functional team. They can achieve this by having support from a specialist. As the members of the team increase their knowledge, the group will gain independence. Independence would lead the team to speed and efficiency because waiting something from another unit or team can slow down the development process. Also gaining knowledge would reduce the number of hand-offs and hand-offs are serious problems for time management.

In terms of cultural perspective, having support from specialists for increasing knowledge would help to improve sense of collaboration because staying in touch with other groups and team members can help to have better communication between development teams. Final aspect is that, having automation for avoiding manual tasks would create some time for development team to spend more on customer-oriented works. Nowadays ability to work customer-oriented is a plus for industry and automation process can have direct effect for setting customer-oriented working culture for a development team.

**5. In order to be successful with cross-functional teams, an organization is required to make automation a priority. What is the reason behind this condition?**

Time management and having independence are very important for the success of cross-functional teams. Automation directly helps time management and independence by providing continuous delivery. Automation creates extra time by speeding up the processes, so that team members can spend more time to improve their knowledge which is an important aspect for cross-functional team to gain independence. Avoiding manual intervention by automation is another thing that speeds up the processes and also it helps to gain independence by reducing the need for other people who can cause dependencies on testing or integration processes.