

Sprint Review and Retrospective:

Lessons from Adopting Scrum-Agile

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Applying Scrum Roles and Contributions

The success of the SNHU Travel project was largely due to the well-defined roles within the Scrum-Agile team. Each team member played a vital part in ensuring that the project met its goals. The Product Owner provided a clear vision for the software by gathering user requirements and ensuring the development team understood the needs of the travel agency. The Scrum Master facilitated daily standups, managed sprint planning, and removed roadblocks, allowing the team to work efficiently without unnecessary delays. Developers translated user stories into functional code, while testers ensured that all features met quality standards before release. This collaboration between roles allowed for iterative improvements and quick adjustments based on stakeholder feedback.

Completing User Stories with Agile

User stories were central to the Agile development process, helping the team break down complex requirements into manageable tasks. Unlike the traditional waterfall approach, which requires rigid planning before execution, using Scrum allowed the user stories to evolve based on customer feedback. For example, an initial user story required a simple search function for vacation packages, but after discussions with stakeholders, it became evident that users needed filters for pricing, destinations, and travel dates. Because of Scrum's flexibility, the team was able to refine this feature in subsequent sprints without disrupting the development process. This approach ensured that user stories were continuously improved and met the evolving needs of SNHU Travel.

Handling Interruptions and Changing Direction

One of the most significant advantages of using Scrum-Agile was its ability to handle interruptions and shifting priorities. During development, stakeholders requested a change in the UI layout to improve the visibility of booking options. Had this been a waterfall project, such a request would have been difficult to accommodate without causing delays. However, by leveraging Agile's iterative sprints, the team was able to reprioritize tasks and adjust the UI in the next sprint without derailing the project timeline. This adaptability proved essential in delivering a product that met both business needs and user expectations.

Communication and Collaboration

Strong communication practices were a key factor in the project's success. Daily standups ensured that team members remained aligned, while backlog refinement meetings clarified the details of upcoming work. Email communication also played an important role in resolving ambiguities. For example, a developer needed clarification on button placement in the UI and sent an email to both the Product Owner and tester. This proactive approach allowed for quick decision-making, keeping the project on schedule. Additionally, using tools such as Slack for real-time communication facilitated instant feedback, reducing the turnaround time for approvals and adjustments.

Using Agile Organizational Tools

Agile project-management tools like JIRA played a crucial role in streamlining development. JIRA allowed the team to track progress, prioritize tasks, and visualize the sprint backlog. By using JIRA's Kanban board, developers and testers could see which tasks were in

progress, completed, or awaiting review. This transparency made it easier to coordinate efforts and ensure that no task was overlooked. Additionally, sprint burndown charts provided insights into the team's velocity, helping them adjust workloads as needed to maintain a steady pace. These tools, combined with Scrum events, improved efficiency and kept the project well-organized.

Evaluating the Scrum-Agile Process

The Scrum-Agile methodology presented several advantages during the SNHU Travel project. One of the biggest strengths was its iterative nature, allowing the team to incorporate feedback and make continuous improvements. This approach resulted in a more user-centric product, as stakeholders were involved throughout the development cycle. Another benefit was the ability to pivot when requirements changed, which minimized the risks associated with rigid long-term planning. However, there were also some challenges. Agile requires a high level of discipline in maintaining Scrum ceremonies and documentation, which can sometimes slow down productivity if not managed properly. Additionally, scope creep was a risk, as new requirements frequently emerged. While these challenges were manageable, they required active oversight to ensure they did not impact deadlines.

Assessing the Best Approach

For the SNHU Travel project, the Scrum-Agile approach was undoubtedly the best choice. The nature of software development for a travel agency requires flexibility, as user needs and market conditions can shift rapidly. Agile allowed the team to refine features based on ongoing feedback rather than waiting until the end of development. Had the team used a waterfall approach, adapting to stakeholder requests would have been far more difficult and

time-consuming. While Agile required continuous collaboration and rapid iterations, these efforts resulted in a more polished and functional final product that met the business objectives.

Lessons Learned and Future Recommendations

Reflecting on the development process, several key lessons emerged. First, clear and open communication is crucial to keeping the team aligned and productive. The use of structured Scrum events, combined with informal real-time discussions, prevented misunderstandings and kept development moving smoothly. Second, maintaining a well-groomed backlog ensured that user stories were clearly defined, reducing confusion during sprint planning. Finally, the ability to adapt to changes without disrupting progress demonstrated the strength of Agile in delivering software that meets dynamic user needs.

Based on the success of the SNHU Travel project, it is recommended that ChadaTech proceed with transitioning its development teams to Scrum-Agile. The iterative approach allowed for greater stakeholder engagement, faster delivery of features, and more efficient handling of changes. To ensure a smooth transition, ChadaTech should invest in Agile training for all teams and establish best practices for backlog management and sprint execution. Additionally, adopting Agile-friendly tools like JIRA or Azure Boards can help maintain visibility and organization across projects. With proper implementation, Agile can enhance productivity and improve the overall quality of software development at ChadaTech.

Conclusion

The Sprint Review and Retrospective for the SNHU Travel project demonstrated the effectiveness of Scrum-Agile in modern software development. The structured yet flexible nature of Agile allowed the team to respond to changing requirements while maintaining steady

progress. By leveraging strong communication practices, organizational tools, and iterative improvements, the team successfully delivered a high-quality product. Based on these insights, ChadaTech stands to benefit greatly from adopting Scrum-Agile company-wide, fostering a more dynamic and responsive development culture.