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**Final Project**

ChadaTech, a well-known player in creating software, boldly switched from the usual way of doing things to a more adaptable approach called Scrum-agile. As the Scrum Master for the SNHU Travel project's pilot team, this document looks at our Sprint Review and Retrospective, focusing on what helped us succeed, how well Scrum-agile worked, and what important things we learned.

**The Contributions of Roles in the SNHU Travel Project:**   
*Product Owner:* The Product Owner, demonstrating strategic expertise, effectively handled the product backlog, making sure that essential features, like the flight booking function, took priority. This not only fit well with SNHU Travel's business model but also established a positive direction for the project's success.

*Scrum Master:* As the Scrum Master, prioritizing effective communication and overcoming obstacles was crucial in my role. When faced with a critical technical issue, a promptly organized cross-functional meeting successfully addressed the problem, emphasizing the pivotal role of this position in preventing possible project delays.

*Development Team:* The development team, with a mix of developers and testers, showcased outstanding teamwork and adaptability. Their ability to self-organize was evident in successfully tackling complex user stories, as highlighted by the smooth integration of the hotel booking feature.

*Stakeholders (SNHU Travel):* Engaging with stakeholders from SNHU Travel played a pivotal role in capturing evolving project requirements. The swift integration of additional search filters in response to client requests for the next sprint exemplifies the effectiveness of this collaboration.

**Regarding the Scrum-Agile approach and user story completion**:

Iterative Development: The Scrum-Agile approach enabled gradual progress by delivering incremental value after each sprint. For instance, the initial sprint focused on a basic flight search feature, evolving over subsequent sprints to include additional filters and sorting options.

Continuous Feedback: Regular sprint reviews with SNHU Travel ensured active client involvement and early feedback, contributing significantly to refining user stories. This iterative feedback loop notably improved the user interface for selecting travel dates.

**Handling project interruptions and changes in direction**:

Prioritized Backlog: The Scrum-Agile approach's reliance on a prioritized product backlog empowered the team to quickly adjust story priorities when SNHU Travel's business strategy shifted. For instance, stories related to responsive UI were reprioritized in response to a strategic shift towards a mobile-first design.

Quick Adaptation: Short sprint cycles empowered the team to pivot swiftly when project dynamics changed. For instance, a strategic shift towards personalized travel recommendations led to the team adeptly adjusting their development focus in the subsequent sprint.

**Effective communication and collaboration**:

Daily Stand-ups: Daily stand-ups served as a cornerstone for effective communication, providing a platform for team members to share progress, discuss challenges, and assist each other. For example, a team member seeking help with integrating a third-party API was effectively addressed during a stand-up.

Collaborative Tools: Tools like Jira and Slack streamlined communication and task tracking, with Jira boards offering real-time progress visualization and identification of bottlenecks, contributing to seamless collaboration among team members.

Organizational Tools and Scrum-Agile Principles: Tools such as Jira for backlog management and sprint planning, combined with a commitment to Scrum events like Daily Stand-ups, Sprint Reviews, and Sprint Retrospectives, played a crucial role in ensuring the team's success. These tools and principles provided a structured framework for effective project management and continuous improvement.

**Assessment of the Scrum-Agile Approach for SNHU Travel**:

*The Pros*:

* Flexibility and Adaptability: The Scrum-Agile approach facilitated a swift response to changing requirements and priorities.
* Continuous Feedback: Regular interactions with stakeholders ensured alignment with evolving needs.
* Empowered Teams: The team's self-organizing nature fostered a sense of ownership and high motivation.

The Cons:

* Learning Curve: Adapting to the new methodology initially posed a learning curve for most team members.
* Resource Allocation: Ensuring the availability of cross-functional team members for ceremonies presented a challenge.

**Team Achievements & Lessons Learned**:

Throughout the project, the team consistently met sprint goals and exceeded client expectations. Challenges were overcome, and lessons learned reinforced our commitment to continuous improvement. Strategies were evolved for more efficient collaboration and problem-solving.

**Impact on Product Quality**:

The Scrum-Agile approach significantly influenced the final product's quality, leading to measurable improvements in functionality, usability, and overall client satisfaction. The iterative development process played a crucial role in delivering a more refined and user-friendly application.