**Title Page**

* Title: Sprint Review and Retrospective
* Subtitle: SNHU Travel Application Development
* Oleksiy Koshlyak
* Date: 06/23/2024

The purpose of this document is to review and reflect on the development process of the SNHU Travel application using the Scrum-Agile methodology. This project served as a pilot for ChadaTech's transition from a waterfall development model to Agile. The goal is to summarize our experiences, analyze the effectiveness of the Scrum-Agile approach, and provide insights to inform the broader company decision on adopting Agile methodologies.

**Applying Roles**

The success of the SNHU Travel project was due to the effective application of various Scrum roles:

* **Scrum Master:** As the Scrum Master, I ensured that the team adhered to Agile principles, facilitated Scrum ceremonies, and removed obstacles. For instance, I organized daily stand-up meetings that kept the team synchronized and promptly addressed any blockers.
* **Product Owner:** The Product Owner prioritized the backlog, ensuring the team focused on delivering the highest value features. For example, the Product Owner worked closely with SNHU Travel stakeholders to refine user stories, ensuring clear requirements and acceptance criteria.
* **Development Team:** The cross-functional development team executed the work collaboratively. Developers and testers worked together to deliver shippable increments. An example of this collaboration was during the implementation of the trip booking feature, where front-end and back-end developers coordinated their efforts to deliver a seamless user experience.

**Completing User Stories**

The Scrum-Agile approach facilitated the completion of user stories through iterative development and continuous feedback:

* User stories were broken down into manageable tasks and assigned to team members during sprint planning. For example, the user story for booking a trip was divided into front-end UI development, backend API integration, and database updates. Each task was completed within a sprint, allowing us to deliver a functional feature incrementally.

**Handling Interruptions**

Agile's flexibility was crucial in managing changes and interruptions:

* Midway through the project, a significant requirement change was requested. The Scrum framework allowed us to re-prioritize the backlog and adjust the sprint plan accordingly, ensuring minimal disruption. This adaptability ensured that we could accommodate stakeholder requests without jeopardizing project timelines.

**Communication**

Effective communication was a cornerstone of our Scrum-Agile approach:

* Regular updates on Slack kept the team aligned. For example, daily stand-up summaries were posted on Slack, ensuring that even remote team members were informed of progress and blockers. Additionally, a weekly summary email reinforced goals and progress, maintaining transparency with stakeholders.

**Organizational Tools**

Several organizational tools and Scrum principles contributed to our success:

* We used Jira for task management, which provided transparency and accountability. The Kanban board in Jira visualized the progress of tasks, helping the team stay organized. Scrum ceremonies like sprint planning, daily stand-ups, and sprint reviews facilitated continuous improvement and alignment.

**Evaluating Agile Process**

The effectiveness of the Scrum-Agile approach was evident throughout the project:

* **Pros:**
  + Flexibility in handling changes.
  + Improved team collaboration and communication.
  + Regular feedback from stakeholders leading to better alignment with requirements.
* **Cons:**
  + Initial learning curve for team members new to Agile.
  + Potential for scope creep if backlog management is not rigorous.

Overall, the Scrum-Agile approach was well-suited for the SNHU Travel project, allowing for iterative development and frequent stakeholder feedback, which were crucial for the project's success.

**Conclusion**

In conclusion, the transition to a Scrum-Agile approach for the SNHU Travel project provided valuable insights and demonstrated significant benefits. The flexibility, improved communication, and iterative development process were key factors in the project's success. These lessons learned will be instrumental in guiding ChadaTech's broader transition to Agile methodologies.