Dustin Rowe
Jed Hutto
Drew Grubb
Brandon Alfred
Claudio Corona

Team Major Mapleleaf Analysis

Throughout this project of building a RESTful service with the NUber application, our team overcame multiple challenges that came up throughout the two sprints. The first sprint held most of these issues. Learning how to implement JavaScript, NodeJS, and MongoDB to work together took some time. However, the team was able to easily overcome these learning curves by individually researching JavaScript application development and database integration. Once these initial challenges were overcome, any difficulty with language syntax or API implementation were solved by simply researching similar issues within their respective communities.

Another challenge that our team faced in the first sprint was due to a lack of communication and premature story claiming. Since this project was most of the team's first time using the trello site and Agile, there were many points in which members felt they were blocked from working on a story due to a dependency on another story in development. This issue was resolved during the next sprint by having team member only take user stories to development if they were working on it at that time. This way, we were able to have everyone working efficiently on user stories, minimizing the possibility of being blocked.

The last issue that needed to be addressed from the first sprint came from vague review and testing processes. Throughout the first sprint, many members had difficulty seeing the difference between the review and testing processes. This problem was fixed during the second sprint as the team met and discussed what the exact process was for reviewing as well as testing. For reviewing, a team member separate from the developer would look over the github and ensured that the code was in fact posted and no major merging issues were found and covered the acceptance criteria. For testing, a

team member separate from both the reviewer and developer would go more in depth with testing the user story by double-checking that all acceptance criteria were met, and that both positive and negative testing returned zero bugs. Any issues found during these processes would be handled by the reviewer or tester, and any changes made to the story would be in the comment section of the story as well as on the github. These processes for reviewing and testing made the code more reliable and, in turn, ensured that our product was of a higher quality than it would have been otherwise.

Despite multiple challenges within the first sprint cycle, our team was able to complete the first sprint stories on time due to quality contributions from all team members. Once those challenges were overcome, team communication was extremely effective. Trello and GitHub plugins were added to the Slack application, further increasing team cohesion and reducing confusion. The team met up on a weekly basis, ensuring that everyone was on the same page and the goals of the group were kept clear. The team worked together to theorize and implement the additional requirements within the NUber application. When the Project Manager got the additional requirements approved, our team was able to add them and start working on them immediately due to the stories and complexities being determined by the group already.

In conclusion, this project effectively allowed our team to communicate and overcome a variety of challenges that are similar to what we will face in the industry. We were able to learn the Agile process, building up team strengths and improving upon any weaknesses we found as the sprints went on. We successfully completed the NUber RESTful API within the time limit, implementing a variety of features and additional features using the Agile method. This project was useful in teaching us the importance of Agile, Software as a Service, RESTful Apps, JavaScript/NodeJS, and communication in the world of Software Engineering.