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In Milestone 3, I gained a better grasp of how development workflows work on a project, as well as the importance of UAT and Whitebox testing. The testing step of the SDLC, as is common, requires more time and effort to find defects in our web application before the implementation phase begins. As I go through Milestone 3, I can see how the project develops from developing the many features required for the application to conducting UAT and white box testing on each feature in the testing stage and software integration in the integration stage.

M3 has taught me how important it is to understand all of the different diagrams and how they should be designed properly to be useful in the subsequent stages of software design. In the class diagram, I learned that it is critical to illustrate the structure of a system in detail, such as its attributes, the services that they provide, and the relationships between the objects. While creating the sequence diagram, I was able to better understand the system's requirements and document the interaction logic between the objects in the system in the order in which the interactions occur, as well as define event sequences that would result in the desired outcome.

In every meeting, our team was able to communicate more effectively to achieve the deliverables. Everyone completed their assigned tasks and gathered to work on the testing. We also provided regular updates and verification on the M3 Readme file. Our team focused on the system state diagram after modifying our use case diagrams and system state diagrams in response to feedback from the Milestone 2 review session to ensure that all states and transitions are specified and correctly linked together following the actions, conditions, and test cases. After that, the white box tests and videos were worked on.

My main contributions to Milestone 3 include defining instructions and dependencies to execute the web application as well as developing development procedures utilizing git and the GitHub features. I worked on the tutorials pages where it retrieves and displays all the tutorials from the database. When a user enters the web portal's IP address, the user is redirected to the tutorial page, where he or she is given the option of starting or skipping the tutorial. After completing the tutorials, the user can proceed to the dashboard and begin playing the game. In addition, I collaborated with my team on revising the use case diagram and the system state diagram in response to M2 review feedback, as well as participating in the video covering all system test cases. Working on the Whitebox Testing is quite a challenge, but I was able to collaborate with my team to construct a test suite with test cases, as well as display code coverage statistics using control flow graphs (cfg) and explanations. Finally, I assist with team management and initiate meetings to ensure that Milestone 3 deliverables are completed on time.

In conclusion, there were still many things that we would like to explore and show off, but we were short on time this trimester. Despite this, our team collaborated effectively to meet the project's deadlines.