Fazil Shaikh

COS 420 - Childhood Immunizations

Iteration 1 report

Feb 22, 2020

Description of work done by each team:

Team 1 - John Hofacker, Alexander Millet:

John and Alex spent this iteration making the basis for the GUI and the skeleton of the model-view-controller system. They also have the DAO and project dependencies set up for the JSON data storage to store patient immunization information but it will be implemented in the next iteration.

Team 2 - Calen Cyr, Marie Hartung:

Calen and Marie worked on the Mock patient model we needed for our GUI system to display and modify and existing patient. They also created the UML diagrams including the class diagram, system sequence diagram and also a success path for our system.

Significant accomplishments in this initial iteration:

In two weeks' time, we were able to create the necessary UML diagrams and establish the foundation for our model-view-controller structure that helped us set up a simple but functional graphical user interface system.

Significant issues and code that may need to be refactored for the next iteration:

Currently, the user input is not saved to a JSON file because we have decided to verify all DOA code and its dependencies before merging it into the base project. The pull request will be reviewed by all team members in the next iteration and only after it is approved by everyone, it will be merged. Then, we can implement a tracking system for patient records so they can be retrieved and modified as needed.

Risk assessment:

Since this is the first iteration, a major risk for us is the GUI system. Almost all of us in the team are unfamiliar with the Swing GUI widget toolkit and it seems to contain a fairly sophisticated set of GUI components. For now, we decided to start with a simple text-based user interface but will eventually have to transition to Swing. Another risk is the fact that we haven't created any data validation or user input validation in our text-based GUI and that will need to be implemented for the future iterations.

Time estimates:

Task/Feature	Estimated	Actual
Problem statement	1 hour	3 hours
Setting up the base project	2 hours	3 hours
Patient mock model	2 hours	1 hour
Immunization Register model	2 hours	3 hours
Class diagram	1 hour	3 hours
System Sequence diagram	1 hour	5 hours

Success path	1 hour	2 hours
GUI	5 hours	4 hours