SER 516 Spring 2020 Team 2-Project 4

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Sprint Retrospective

1. What went well in the Sprint?

Ans.

a). In this sprint, our decision of segregating the team into two halves i.e User Interface Team, Backend Team, Research team. Looking after each individuals' capabilities, members were allotted in respective teams. By this decision, we were able to build the functionalities much faster.

b). User stories in the sprint were also distributed in a manner where individuals can research as well as implement their features independent of someone's dependency.

c). Due to more discussions done in sprint planning, we were able to implement a short sprint where every member knew what their responsibilities were.

d). In the sprint planning phase, we were able to decide our architecture which helped us in understanding the flow of data across the application.

2. What went wrong in the Sprint?

Ans.

a). In the sprint planning phase, we were confused regarding the hours allotted to a story according to the points assigned to it. Due to this, there was a lot of back and forth which we had to do on our sprint board.

b). Keeping the future requirements in mind, we were sometimes focussing more on accumulating more things than needed in the project and also making the components more generic and useful which led to the development of more classes in the project.

c). In our practice of improving the structure, we did less reusability and more of improvement work.

3. What should we do differently in the next sprint?

Ans.

a) Designing UML diagrams in the planning phase such as sequence diagrams wrt classes in

the project, which will help in streamlining.

b). More detailed discussion on requirements for the sprint.

c). Estimate hours and story points according to the breakdown of the story's tasks.

d). Keep buffer time for any last time bugs/issues which will help in the smooth and error-free delivery of application at the end.

Sprint Review

Following functionalities are achieved with respect to this sprint requirements

1. We have added functionality of tabs where users can draw as many shapes as they want on the drawing board on a specific tab. There is also an option of adding multiple tabs that are independent of other tabs drawing board.
2. We have also added the functionality of compiling the drawings on the board. This feature will help in recognizing whether there are some errors in the shape's connections. Now compiling is also possible on multiple tabs.
3. With the updated requirements, we were able to update our previous shapes into new shapes.
    a) Open Parenthesis Shape
    b) Closed Parenthesis Shape
    c) Less Than Operator Shape
    d) Greater Than Operator Shape
    e) At the rate Operator Shape
    f) Bar Operator Shape
    g) Dash Operator Shape

4. On double-tap on the drawing board screen, the user will be able to add the values and store it permanently. It can also be restored at the later stage.

Technical issues in this sprint delivery:

5. The updated shape can be saved and then loaded for future changes from the application.

Technical issues in this sprint delivery:

In this sprint, we were new to this concept of working remotely and conducting meetings virtually due to which a lot of parts were not able to be working as expected.

1. Drawing board can not be cleared wrt to tabs in the updated board.
2. Save functionality was causing issues because of multiple tabs.
3. While Compiling tabs, a lot of issues were pertaining to the inline connection among shapes.

While integrated testing following bugs was discovered:

1. Rigorous testing was done on components and we were not able to restore the values of the popup window after it clicked again on that point.
2. Less testing was done with respect to save and load functionality.

Burndown chart