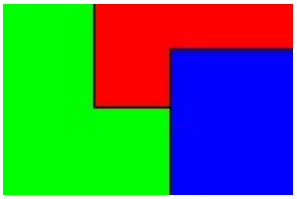
3Blockz



3Blockz Development

Team F

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Project Report

Sprint #1

A) What Was Your Sprint Plan?

- The plan for the first sprint was to get our menu system working. We also thought we could have one of our tools operational to be demonstrated in class, the equality operator to be specific. The menu system was to have a button on the CodeBlocks toolbar that created a drop down menu when clicked. The menu options would each create a pop up window for the corresponding tools listed. The pop up window would list the necessary inputs required for our plug in to generate the proper code and prompt the user to input them. We planned to ensure that our Makefile was working properly. We wanted to provide adequate documentation through Doxyfile set ups for our code. We also tried to set up test cases for our merge requests to pass. We hoped to get all the design of implementation finished and configure.

B) How Close did You Come to Achieving Your Plan?

- We bit off a lot more than we could chew on this sprint. The menu system was created but little else. The pop up windows are designed through wxSmith projects but the syntax required to link the two projects is elusive. The hash generator is very close to being completed but has not been tested as extensively as possible. The actual tool is also not connected to the menu system or the pop up windows. So we came close in that a lot of our work is completed but it doesn't yet fit together properly. We finished the Makefile which compiles all our relevant documentation, and static analysis, code coverage, and memory leak testing. Our pipeline also currently have test cases checking our code for us. We do have a overall system design for all our tools.

C) What Problems Did You Encounter and How Did You Solve Them?

- The learning curve with CodeBlocks is steep we solved that problem by reading documentation and tutorials. We struggled with setting up the menu system for our plug in. We solved the issue by repeated trial and error. We created several test implementations to decipher how the system worked and learn the syntax. Finding a library for JSON proved difficult, solution presented itself by repeated trial and error to determine what would and would not compile on our servers. We also worked together on a lot of issues so that no person was stuck on one issue for a long time alone. We have not solved the problem of integration of all our code just yet. We also had trouble abstracting out a lot of our issues. This should make our work easier in future sprints but it was a challenge we faced this time.

D) What is Your Plan For the Next Sprint?

- The plan for the next sprint is to complete the integration of all the code. We also want to get all test cases finalized and working properly. Finally we want to complete the second tool of equality operator in full, including pop up windows and test cases.

Ensuring adequate code coverage in our test cases will also be a priority for next sprint. We also need to provide some documentation for our code.

E) What Will You Do differently in the Next Sprint?

- The next sprint we are going to meet on a more consistent basis. Reading week made all of our schedules a little unpredictable, which will be different now that classes are back to normal. Tasks will be delegated immediately after class instead of wasting a few days of inactivity. Heavy work will be completed long before the last minute deadline, to leave time for testing and documentation before the deadline.