Sprint 2 Scrum Report

1. Prologue
   1. Ruse Cruise: *Pack your bags!*
   2. Members: Matt Bernero, Caroline Cox, Caitlin Croke, Damien Mi
   3. Project Title: Ruse Cruise Stocks
2. Sprint II report:
   1. Project Overview
      1. Scrum Master: Matt Bernero
      2. Product Owner: Damien Mi
      3. Team members: Matt Bernero, Caitlin Croke, Caroline Cox, Damien Mi
      4. Estimate of time worked in total: 25 hours
   2. Product Overview
      1. The three main components of the UI, the login, home, and information screens, have been started and implemented into our application. In addition, work on the SQL database has started to allow users to store data on the stocks they are interested in and a search bar has been implemented to browse available stocks.
      2. User Stories Addressed
3. As a user, I want to be able to view a graph of historical data so that I can easily visualize the data.
4. Story Points: 8
5. Design: Show a new screen with a stock's information and a graph with that stock's historical data.
6. Implementation Details: When a button is clicked in the Home Screen, the card changes to display the Information Screen. The stock's name, abbreviation, current value, opening value, high value, low value, close value, and the percent change of the current value from the previous day's value is shown for the stock. The graph displays the historical information for the time period chosen by the user via a combo box.
7. Implementer: Caitlin Croke
8. As a user, I want to be able to research the stocks of my choice and be able to add them to the portfolio so that I can easily access them in the future.
9. Story Points: 8
10. Design: Connected MySQL with Java to try to make the research button work to search for information through the database.
11. Implementer: Damien Mi
12. As a developer, I want to be able to store the data on any stock within a database so that a user can create a portfolio of stocks that they would like to keep track of.
13. Story Points: 16
14. Design: SQL Database accessed through the application using the JDBC DriverManager
15. Implementer: Matt Bernero
16. As a developer, I want to have the API update the database when called, so that I can have the most accurate data when I want it.
17. Story Points: 8
18. Design: Currently, the API is the main source of data at all points. I connected it to the database and it now stores current information into the database when the program is launched, and the program will pull data from the database in the case that the API fails. While working on this, I also sped up the sequence of API calls by eliminating the need for duplicate calls, though the number of calls still being made is still taking more than optimal time.
19. Implementer: Caroline Cox
    1. Integration Testing
       1. Integrating the API with the UI
          1. The UI now shows information obtained directly from the API through a call to the stocks from a given text file. Currently, everything works when the API is working, and everything but the history works when the API fails. The next step is making the historical data work in spite of an API failure.
       2. Integrating the API with the database
20. The API now updates the database when the program is initially run and will default to pulling from the database in the case that the API fails.
    1. State of the Quality of the Product
       1. Currently, the product has the same security measures in place from the previous sprint, and the base layout for the User Interface is detailed, with parts of it created in various stages of development. It does not yet have full functionality in this regard but will eventually be developed. At this time, it is a working piece of software that behaves as expected.
    2. Scrum II Retrospective:
       1. Overall, this sprint was devoted to the development of the product, and we have made excellent progress. Constant communication continues to prove instrumental to the project's successes. It will soon become very important that everyone on the team is familiar with all parts of the system; each team member will need to be able to understand all parts of the project if we are to be able to integrate the parts seamlessly.
       2. Individual Perspectives
          1. Scrum Master’s Perspective: Overall, this sprint was another solid performance by the team. Now that the team has had some experience with the Agile process, we were able to create a clear division of labor and made sure that each team member had enough to do. The group is very autonomous; they work diligently on their assigned tasks, and each team member offers regular updates on their progress. For the future, I foresee that much of our efforts will be devoted to the integration of our individual products, in addition to finishing touches and cleanup.
          2. Product Owner’s Perspective:
          3. Matt Bernero’s Perspective: Aside from Scrum Master, I have also begun work on a database in which we can store the financial data for each stock. Said database can be accessed form the Java application via the JDBC DriverManager. Queries can be successfully executed on this database from our Java application; integrating the database into our screens will need to be implemented in the future. However, the database needs a server to be stored on; otherwise, the application would require potential users to install MySQL server on their machines just to access a database.
          4. Caroline Cox’s Perspective: We made great progress with this sprint in terms of the UI, especially in getting the info screen set up. Retrieving the historical information for the graph is still taking time that should be optimized if possible. I worked mostly on connecting the API to the information screen, as well as optimizing the API in other ways, including starting the integration with a database. The next task to be completed is making the info screen show the stock that is clicked. Currently, it is hard coded to show the information for GOOGL.
          5. Caitlin Croke’s Perspective: With all of the backend work completed in the first Sprint, we were able to make great strides in the second Sprint. I created the Information Screen with displays the stock information and a graph with the stock's historical information. At the moment, the information is static and being added as labels. Later, we will use the API data for each of the stocks to reflect the most current data. Much research was needed into implementing a JFreeChart, but it is currently reading and displaying current and historical data from the API.
          6. Damien Mi’s Perspective:
       3. Preparations for Sprint III
          1. Scrum Master: Caitlin Croke
          2. Product Owner: Caroline Cox
          3. Goals:
       4. Implement sort functions for the portfolio (4 Story Points)
       5. Integrate all components of the project together (16 Story Points)
       6. Perform unit and integration testing (8 Story Points)
       7. Signatures: *MRB, CC, CC, DM*

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