Product Backlog

CSE 6324: Agile/Scrum – Fall 2024

**Project Title: Charles – A Technical Analysis Charting Assistant**

**Project Type:** Website

Charles, a website AI Chatbot that can produce stock charts with indicators based on user input – saving time for investors looking for a quick technical snapshot of a stock.

**Team members**: Bailey Nguyen, Justin Hawthorne, Austin Johnson, Michal Clarke, Daylen Griffen

(*First name listed and underline is the Backlog Master going forward)*

**Note:** This project consists of 3 sprints, each sprint 2 weeks:

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| --- | --- | --- | --- |
| **Sprint #**  **Start Date**  **End Date** | **Story #: Story Title**  **(e.g. Story 1: Registration Page)** | **No. of**  **Days**  (via Poker planning) | **Status**  **{TBC=To be Completed**  **IP= In progress, or**  **C = Complete}** |
| **Sprint 1**  **10/21 - 11/04** | Pair 1:   * Story 1: Login * Story 12: Register * Story 2: Subscribe | 3  1  2 | C  C  C |
| Pair 2:   * Story 4: See Stock Chart * Story 11: Use Charles on the Internet | 3  3 | C  C |
| **Sprint 2**  **11/5 – 11/18** | Pair 1:   * Story 3: Un-Subscribe * Story 8: Change Stock Chart Time Frame | 2  3 | C  C |
| Pair 2:   * Story 5: Add Indicators to Stock Chart * Story 9: Test Trial Before Paying | 3  1 | C  C |
| **Sprint 3**  **11/19 – 12/02** | Pair 1:   * Story 6: Change Indicators on Stock Chart * Story 12: Charles will friendly respond to requests | 3  1 | C  C |
| Pair 2:   * Story 7: Change Stock with Previously Given Indicators * Story 10: See News and Financials for Stock | 2  3 | C  C |
| **Project Closure**  **12/4/2024** | Closure Master: Austin | N/A | TBC |

**Sprint 1**

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| --- | --- |
| **Start Date – End Date:** | **10/21/2024 – 11/04/2024** |
| **ScrumMaster Name:** | **Bailey** |
| **Pair 1 members:** | **Austin & Daylen** |
| **Pair 2 members:** | **Justin & Micah** |
| **Number of Stories:** | **5** |
| **Story 1:** | **Story Title:** Login  **Long Description:** Login a user. User does not have to be an existing user. If the user has a Google account or supported SSO provider, they can login.  As a user I want to be able to login to use and manage my subscription |
| **Story 13:** | **Story Title:** Register  **Long Description:** Register a new account to use Charles.  As a use I want to create a new account to use Charles |
| **Story 2:** | **Story Title:** Subscribe  **Long Description:** Allow the user to subscribe monthly to core features of Charles by allowing them to input payment method and securely process payment.  As a user I want to subscribe to use Charles |
| **Story 4:** | **Story Title:** See Stock Chart  **Long Description:** Allow the user to input text to Charles the desired stock name or ticker they would like to see. And Charles will return an image of the desired stock.  As a user I want to tell Charles a stock to see an image of the stock |
| **Story 11:** | **Story Title:** Use Charles on the Internet  **Long Description:** User should be able to access Charles on the internet like a normal website  As a user I want to access Charles on the internet |

**Sprint 2**

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| --- | --- |
| **Start Date – End Date:** | **11/05/2024 – 11/18/2024** |
| **ScrumMaster Name:** | **Daylen** |
| **Pair 1 members:** | **Bailey & Justin** |
| **Pair 2 members:** | **Austin & Micah** |
| **Number of Stories:** | **4** |
| **Story 3:** | **Story Title:** Un-Subscribe  **Long Description:** Allow the user to unsubscribe from an existing subscription and no longer be charged the next month. The user should still have access until the end of the pay period.  As a user I want to un-subscribe to stop paying and using Charles |
| **Story 8:** | **Story Title:** Change Stock Chart Time Frame  **Long Description:** Allow the user to change the stock chart time frame  As a user I want to tell Charles to change the timeframe to see a stock chart with my specified timeframe |
| **Story 5:** | **Story Title:** Add Indicators to Stock Chart  **Long Description:** When user looks at a stock or asks for stock new, Charles will give back relevant news  As a user I want to tell Charles to add indicators to see an image of a stock with indicators on top |
| **Story 9:** | **Story Title:** Test Trial Before Paying  **Long Description:** Allow the user to try Charles before deciding to pay for it  As a user I want to try Charles before paying a subscription |

**Sprint 3**

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| --- | --- |
| **Start Date – End Date:** | **11/19/2024 – 12/02/2024** |
| **ScrumMaster Name:** | **Justin** |
| **Pair 1 members:** | **Austin & Bailey** |
| **Pair 2 members:** | **Micah & Daylen** |
| **Number of Stories:** | **4** |
| **Story 6:** | **Story Title:** Change Indicators on Stock Chart  **Long Description:** Allow the user to change the existing indicators the user wants to see on the stock chart  As a user I want to tell Charles to add/remove indicators to see an updated image of a stock with updated indicators |
| **Story 10:** | **Story Title:** See News and Financials for Stock  **Long Description:** When user looks at a stock or asks for stock news and/or financials, Charles will give back relevant news and financial sheets  As a user I want Charles to tell me news about a stock  As a user I want Charles to give me financials about a stock |
| **Story 7:** | **Story Title:** Change Stock with Previous Given Indicators  **Long Description:** Allow the user to change the stock given previous context of indicators the user was using  As a user I want to tell Charles to use a different stock but with same indicators to see an image of the different stock with same indicators |
| **Story 12:** | **Story Title:** Charles will friendly respond to requests  **Long Description:** When the user sends requests to Charles, Charles should reply with friendly text acknowledging the request  As a user I want to tell Charles a request and see a friendly chat response from Charles |

**Burndown Chart**