

Sprint 3: Stock Market Analytics and Recommendation



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This Sprint Objectives

- Set up Stock Tracker API
- Integrate market data for all equities on daily basis.
- Create New Test cases
- Add any additional User Stories
- New Test case development

Risks & Challenges

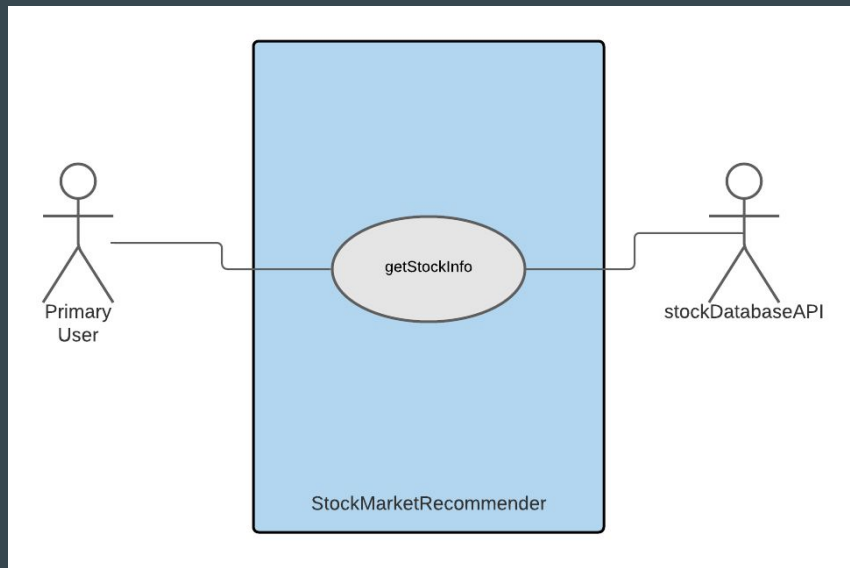
- Finding the right API to pull data from
- Learning Django while implementing
- Not being able to find a way to successfully display historical stock market data in a chart

Mitigation Plan

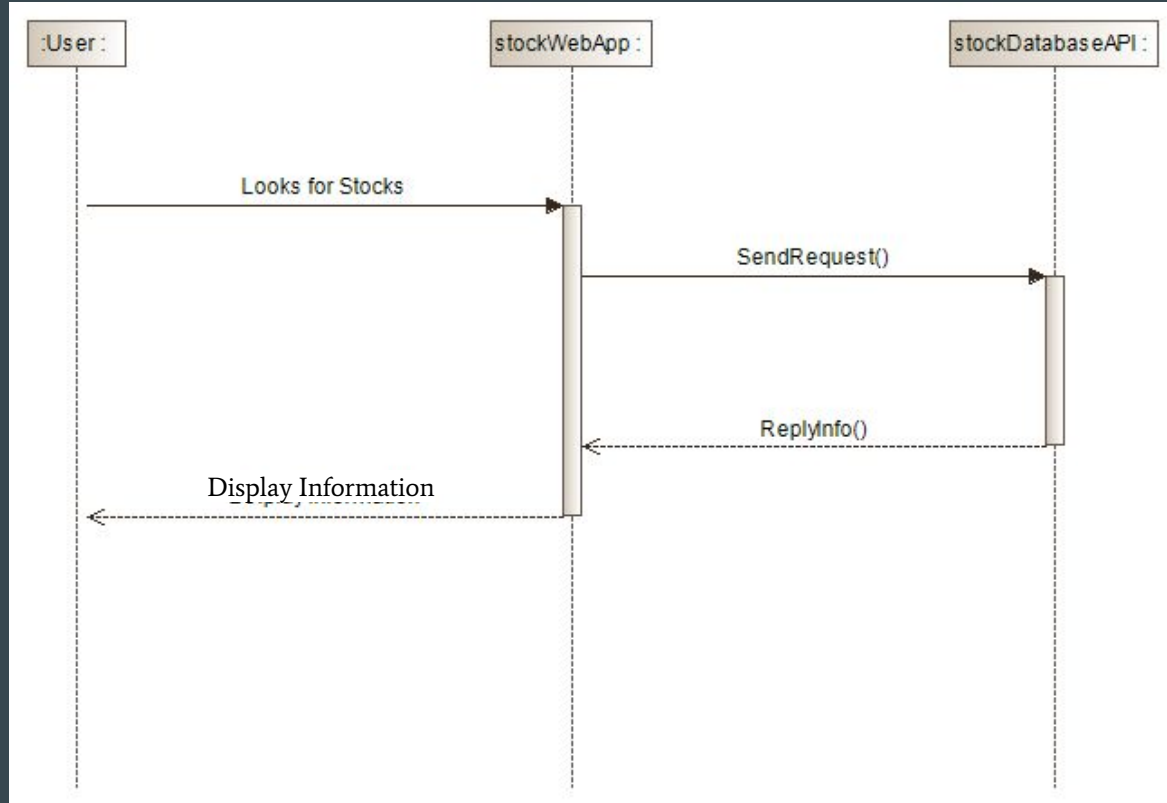
- We used an API that had an easy format to iterate through (python dict)
- Set aside extra time to simply go through documentation and read before diving into fully implementing
- Having a different group member continue the research and implementation for this in the next sprint

Use Cases

- For this sprint:
 - Get Stock Information:
 - **Preconditions:** User requires an activated account
 - **Success Guarantee (Postconditions):** User searches and views a stock's information
 - **Main Success Scenario:**
 1. User logs into an activated account
 2. User enters stock symbol into dashboard search bar
 3. User selects symbol
 4. User is brought to a page containing information on search symbol
 - **Extensions:**
 1. Page not loaded properly
 2. Stock not found



Sequence Diagrams



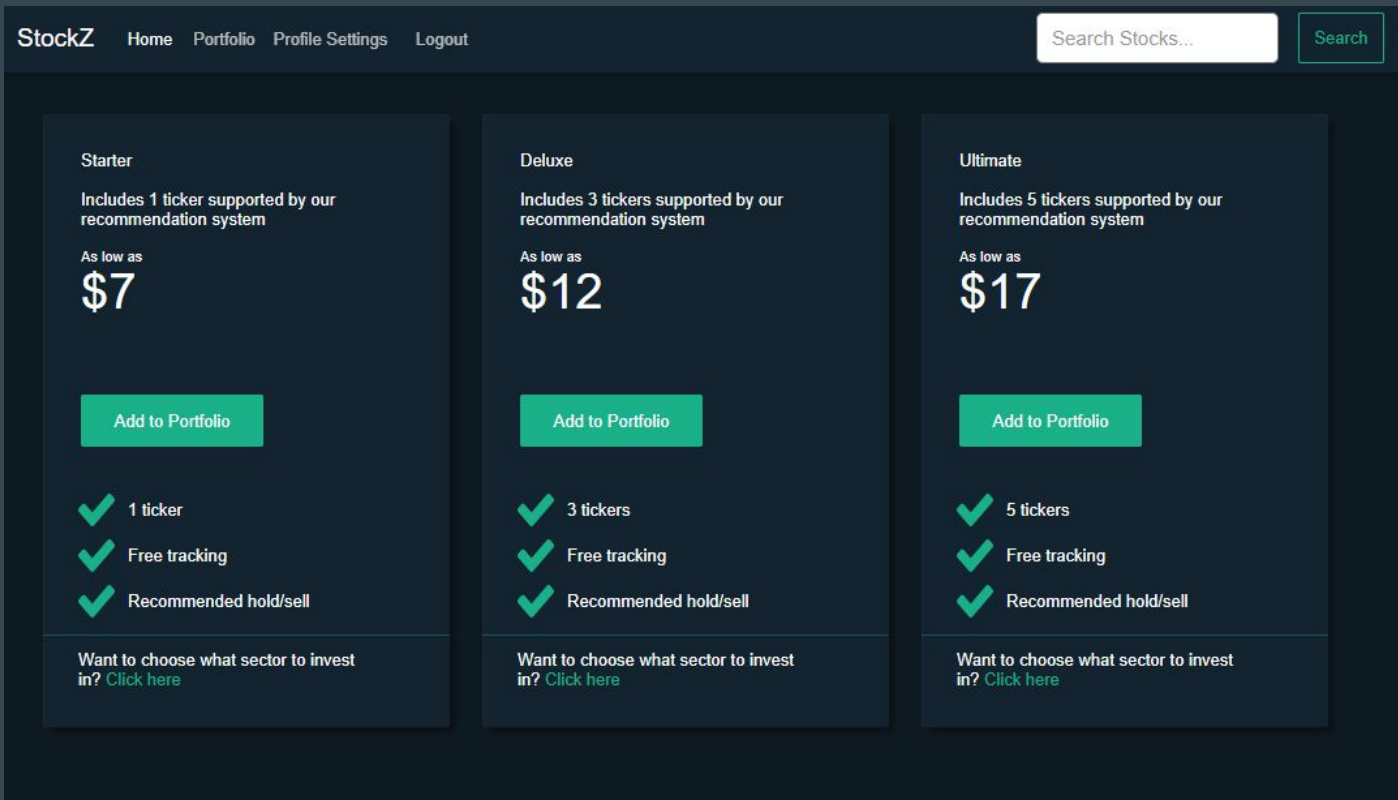
Next Sprint Objectives

- Roll over stock api graph to this sprint
- Design & Make UI user friendly
- Build public pages to market the cloud-based market recommendation system.
- Complete next user stories
- New Test case development

Market Cloud-Based Recommendation Page Design

Design Decisions:

- Three quick and easy packages to choose from: Starter, Deluxe, Ultimate.
- This page would be for those who want the best companies to invest in no matter what stock market sector they are in



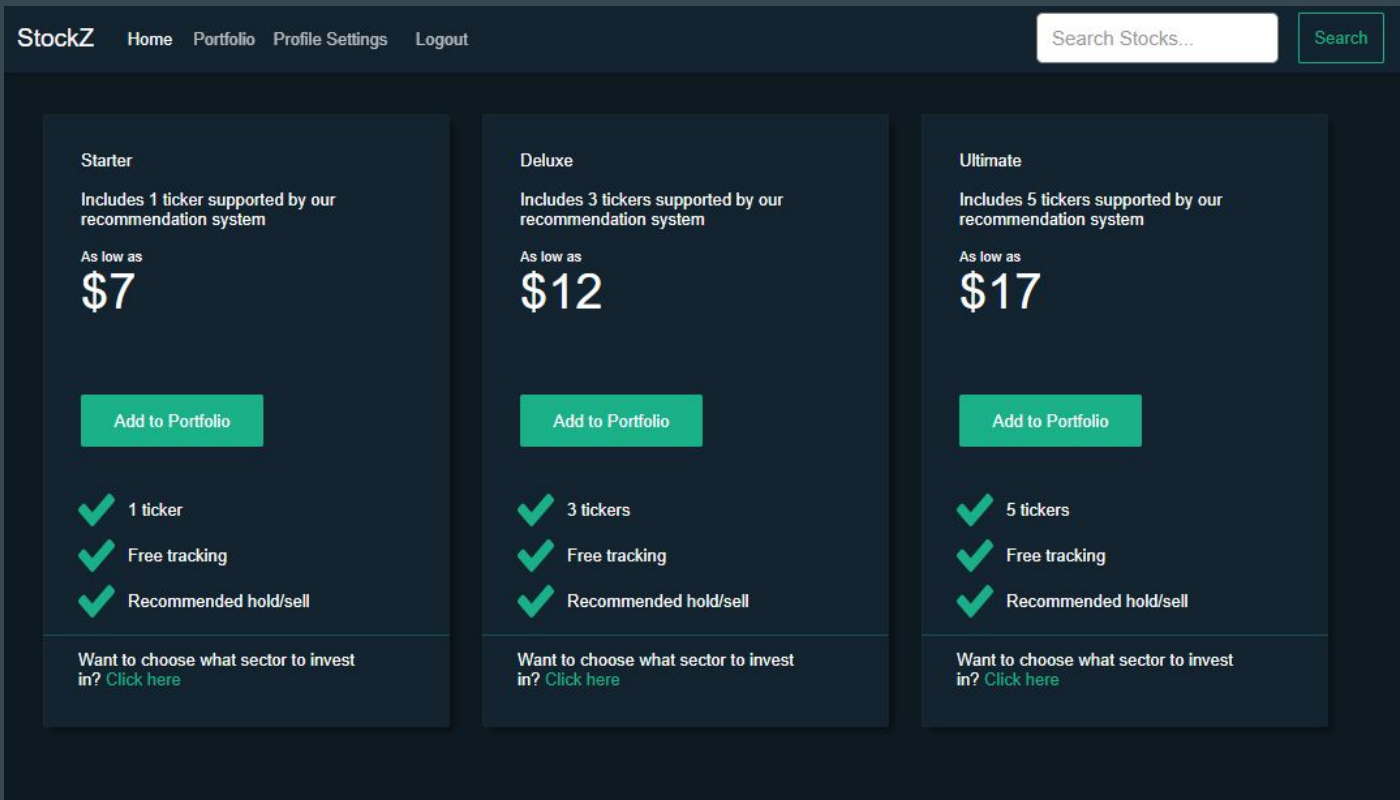
Market Cloud-Based Recommendation Page Design

Design Decisions:

- Green check marks to clearly display what people will be getting when buying each package

- Add to portfolio button that redirects you to your portfolio page

- Provide option to choose which sector to invest in



Stock Sector Based Form Page Design

Design Decisions:

- Have two dropdowns specifying which sector and package they want
- Display their choices and price
- Have “Add to Portfolio” button disabled if each package was chosen more than once for the month

The screenshot displays a web application interface for 'StockZ'. At the top, a dark blue navigation bar contains the 'StockZ' logo, links for 'Home', 'Portfolio', 'Profile Settings', and 'Logout', a search bar with the placeholder 'Search Stocks...', and a green 'Search' button. The main content area features a dark blue background with a central white-bordered box. Inside this box, there are two white dropdown menus. The first dropdown is set to 'Information Technology' and the second is set to 'Starter (1 ticker)'. Below these dropdowns, the text 'You have choosen:' is followed by 'Sector: Information Technology' and 'Package: Starter'. A line of text states 'Includes 1 ticker supported by our recommendation system'. Below this, the price is shown as 'As low as \$9'. At the bottom of the box is a green button labeled 'Add to Portfolio'.

StockZ Home Portfolio Profile Settings Logout Search Stocks... Search

Information Technology ▼

Starter (1 ticker) ▼

You have choosen:

Sector: Information Technology
Package: Starter

Includes 1 ticker supported by our recommendation system

As low as
\$9

Add to Portfolio

Demo