

1. Project Scope:

The OptionChart will display a chart of a stock. The application will utilize the api provided by Tradier.

2. Functional Objectives:

a. High Priority

Provide a price chart for a given stock.

Validate that it is a valid stock

Display an option chart for a given stock

Provide basic information of the stock

-Ticker

Build as command line application

b. Medium Priority

Upgrade to standalone application

Create a GUI

Aesthetics upgrade

When daily gain is positive, make the color theme green and negative, the theme red.

Make the cursor of the chart a rocket ship

c. Low Priority

Upgrade to web based application

Implement technical indicators and other analysis

Implement saving of a portfolio.

3. Use Case Descriptions

Use Case Name:	Looking up a stock and option chain
Summary:	The user will be able to input a stock ticker resulting in a chart of the stock with basic information displayed. The user also requests the option chain.
Basic Flow	<ol style="list-style-type: none">1. The application displays instructions2. User inputs a stock3. The application validates the input.4. The application requests the stock data from the api5. The application displays the data to the reader.6. The user also requests an option chain with a specific date (default closest date.7. The application requests the option chain with the given date8. The application displays the option chain.
Alternative Flow	<p>Step 3: If the input message is to quit, quit.</p> <p>Step 3: If the input is invalid, display an error message</p> <p>Step 4: If the request failed, display an error message</p> <p>Step 6 : If the request failed, display an error message</p>
Preconditions	The application is running
Postconditions	The application returns to Step 1
Business Rules	The ticker name contains only alphabetic characters.