Team 7 GitHub Documentation

1. Abstract
   - The aim is to develop a tab for “Investment Pools” in AutoProphet software. The investment pools page will help the investor make a list of stocks at some ratios and add them to a bucket and invest in all of them at the same time. This helps the user to invest even a small amount into the stocks they wanted with a specific ratio.

2. Features Implemented
   - We created a new page in the software. We added a survey in the tab that helps the user to know their risk profile. The survey has three sets of questions. The user has to answer all the questions. The questions focus on the user’s knowledge in investing, financial status and spending habits. Based on their answers to the survey questions, the user’s risk profile will be determined as one of high risk taker, moderate risk taker or low risk taker. We have also added another functionality that allows the user to create a pool.
   - We worked on backed code and created two python files containing functions that let the user add stocks to their bucket,buy option and sell option. We also created a function that will show the data frame of the bucket. This data frame will contain stock name, price bought, symbol, count and current profit.
   - Apart from these we have also updated the UI of the home page, navigation bar in the Software and we have also implemented google material symbols & icons to make the UI look interactive.

3. Code Highlights
   - We implemented code that calculates the risk profile. The code uses the answers provided by users in the survey. We assigned each value a score and based on that score, the profile will be determined.
   - We used the python pandas library to show the data frame of the stocks.

4. Challenges and issues
   - The data frame created must be refreshed every second or once every 5 to 10 seconds as the stock price changes every second. This could be an issue.

5. Solutions and Fixes
   - There is a way, where writing a JavaScript code could work. We can use JavaScript’s setInterval() to call an API endpoint every 10 seconds or 5 seconds.

6. Future Work and suggestions
   - Could implement plots that describe how the bucked performed over time and how much returns were made in each week or month.

7. Repository and Documentation Links
    - URLs to any relevant documentation.