**Digital Wealth Manager**

**Use Case:**

App/dashboards to help Small Companies and Individual investors in making informed investment decisions in Equity Market as a start, with an option to add Debt Market and Funds

In real life scenario this is app will not be free (Subscription Only).

**Group Team Members:**

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**Project Description/Outline (technology used):**

This project will be leveraging project 2 technical resources / infrastructure as follows:

* Interface HTML page (Project 2 with an option to modify)
* Python API Flask server to retrieve Stock Data (Project 2 which may need to be upgraded to communicate with a new API source “Quandle”)
* PostgreSQL database to save and store the retrieved data with a possibility to upgrade to AWS RDS database (New component pertinent to the volume of data in scope)
* ML Model to predict stock future performance based on the historical data (New Component)
* API source: Quandl and/or Alphavantage (New Component)
* Tableau (New optional component)

The Digital Wealth Manager App will retrieve Stock Data which could be intraday or COB data, save the data to either AWS RDS or PostgreSQL.

The user end user should be able to filter and retrieve the data in the interface HTML page this may include but not limited to :

i) *Date (From - To)*

iI) *Ticker Symbol*

iii) *Company Name*

iv) *Industry*

v) *Sector*

vi) *Open price*

vii) *Closing price*

viii) *Trading* *Volume*

The retrieved data will be used to:

* Table to render all stock data attributes as indicated above
* Trend analysis (line chart) using either Python Library “Plotly” (Candlestick Chart) or Tableau Visualization as needed
* Forecasted trend line chart based on the data fitted and trained in the regression model, or any other model that may fit the data points in scope

**Data Sources:**

* Quandl API
* NASDAQ.com
* NYSE.com

**Screenshots:**





