Computer Engineering Department
A.P. Shah Institute of Technology
G.B.Road,Kasarvadavli, Thane(W), Mumbai-400615
UNIVERSITY OF MUMBAI
Academic Year 2021-2022

Synopsis on
STOCK TRADING WEBAPP
Submitted in partial fulfillment of the degree of
Bachelor of Engineering(Sem-3)
in
Computer Engineering
By
VIDUL BHOSALE(20102152)
PARTH MISHRA(20102162)
JAINAM GALA(20102112)
ADWAIT BAPAT(20102158)

Under the Guidance of
PROF. RRB

Abstract

- **It is a web application for stock market data. Users can get real-time stock data and market news via Alpha Vantage, IEX Cloud, and Stock News APIs.**

- **Creation of personal stock portfolios and a live streaming news feed are the first features.**

- **The authorization process should be as simple as possible and, most importantly, secure (when it comes to finances, the issue of data security is especially relevant).**

1.1 Problem Definition

- **COMMISSION BETWEEN THE STOCK QUOTER AND THE INVESTOR.**

- **INABILTY TO READ THE TRENDS IN THE STOCK GROWTH.**

- **RISK OF LOSS FOR NEW COMERS.**

- **MORE VULNERABLE TO SCAMS AND FRAUDS.**

1.2 Objectives

- **TO CREATE A EASY TO USE CLONE.**

- **TO TRY AND SIMPLIFY THE THE TRENDS OF STOCKS BASED ON PREVIOUS PERFORMANCE**

- **TO GIVE A REAL FEELING OF A LEGIT STOCK TRADING ENVIRONMENT**

- **TO HELP AND LEARN MORE ABOUT STOCKS**

- **TO CREATE A NEWS TAB WHERE IN UPDATES WILL BE DISPLAYED**

1.3 Scope

- **TO REDUCE MANUAL INPUTS MORE OR LESS.**

- **INCLUDE A CHAT BOT THAT INTERACTS AND GIVES OUT INFO.**

- **USER FRIENDLY INTERFACE FOR NEW COMERS.**

1.4 Existing System/project

- **THERE EXIST MANY OTHER CLONES WHICH ALLOW THE SAME BUT ARE EITHER PAID OR HAVE LOT OF RESTRICTIONS.**

- **REAL TIME CLONES WHICH HAVE TOO ADVANCED TECHNOLOGY AND ARE USEABLE ONLY IF YOU BUY A SUBSCRIPTION.**

- **SYSTEM EXIST WHERE IN IT TEACHES YOU HOW TO BUY AND SELL BUT DOESN'T GIVE YOU FREEDOM TO BUY&SELL OF YOUR CHOICE.**

2 Technology stack

- **Django**

- **Django Rest Framework**

- **Back end : Python (the version used here is Python 3.9.7)**

- **Bootstrap**

- **HTML/CSS**

- **JavaScript**

- **SQL**

3.1 Benefits for Society

- **Practical training**

- **Helps in understanding market**

- **EDUCATING PEOPLE IN THE FIELD OF STOCK TRADING**

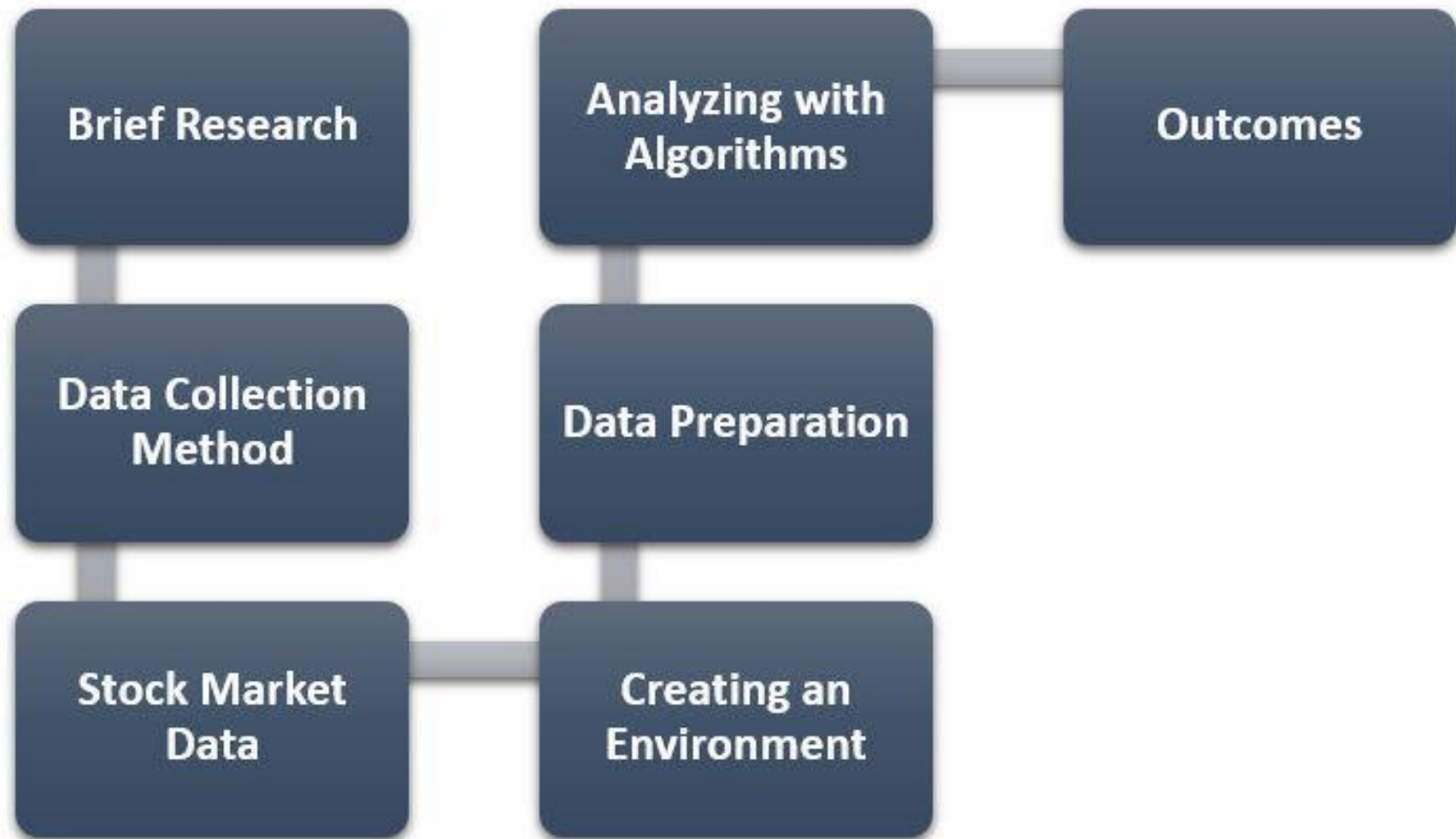- **KEEPS PEOPLE UP TO DATE WITH ACCURATE SHARE PRICES AND INFORMATION.**

3.2 Applications

- **Demand and Supply: We will obtain by the previous data entered.**
- **Corporate results: Companies declare their performance results and profit at the end of each quarter.**
- **Popularity: If any news about a company is about to come and is it bad or good.**
- **Analytics. Participants of the stock market will appreciate the opportunity to observe the statistics and analyze the results of transactions, trades, etc. A good decision is to offer them different kinds of performance charts and reports.**

3.3 Project Design

We need to provide data of a particular company, and its Monthly Sales / Profit report with Months High and Low points of its Stock.

We have to analyze the variations in the stock value of the companies with respect to these factors using some data mining algorithms

3.4 Flowchart/Algorithm

Thank You