ABSTRACT SHEET FOR PROJECT

TITLE OF THE PAPER : STOCK MARKET ANALYZER

CATEGORY : ECONOMICS AND FINANCE

OBJECTIVE : The main objective is to help Investors and Share-Brokers in taking the decision between any 2 Companies while Purchasing, Selling or Retaining shares.

APPLICATION : The Investors can select and can take important decisions of purchasing, selling or retaining of shares of any company and can take easy decisions between the companies with proper justifications using the Android App.

JUSTIFICATION OF CATEGORY CHOSEN : The core idea of this project lies in Finance and Accounting because it involves many accounting terminologies, knowledge of shares and finance concepts.

BASIC EXPLANATION OF PROJECT : We will create an Android App for Analyzing the Stock Market. There will be **5 main sections** of the app like one for the list of all companies with their current values, one for the Latest news and Noticeable Trends. The **other 3 sections** will be **Selling** section, **Purchasing** section and **Retaining** section. In the last 3 sections, User will input any 2 companies in which he/she is interested and then he/she will get proper result with proper justifications. For this, we will use any **Stocks API** (probably Google Finance or Yahoo Finance api) in our app, to get all the **live data**. This data will be in **JSON** format. We will extract important values from that JSON data which is send in response by the API, by doing **JSON Parsing**. We will write the code which will answer these 3 questions :

Q) Why is it better to purchase shares of company_A rather than company_B ?

Q) Why is it better to sell shares of company_A rather than company_B ?

Q) Why is it better to retain shares of the company_A or company_B or for both of the companies ?

The code will be written by considering as many possible factors we can take in each of the three situation, because **more the number of factors** taken into consideration **more the accuracy** of the result. Also, we will take **history** and **some remarkable trends observed in the past** of each company into

consideration while giving the final result. In the code, we will be actually comparing each parameter of both the companies and also we will calculate many useful financial ratios **(Ratio Analysis)** and will also compare these computed ratios for the accuracy of the output. In section 1, we will create list of all the companies with their current values and by clicking on any of the company, the user will get to see the detail information about that company including useful graphs and there will be overview of the company. This will be done with **Fundamental**, **Technical** and **Ratio Analysis** for the company. In section 2, we will display the latest Financial news and trends which is quite useful at the time of taking decisions about the stock. This is how the project will be done.

TENTATIVE TIMELINE : As this project requires building of an android app, making app will take around 1 month, collecting data and history of all the companies will take around 20 days, connecting data with android app will take around 3-4 days, doing all types of analysis on each company will take around 20 days. So, overall it's about **two and a half month** work. It will be ready and would come into action around the middle of January.

FEASIBILTY AND SCOPE OF PROJECT: To use this Stock Market Analyzer App, user only needs Android phone and Internet connection; which we hope 90% of the working population of the world has. This project can further be extended to more and more number of companies, and can even be extend to display predicted future stock movement of the company.