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Stock Market Analysis Application and Website

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ABSTRACT: As Indian investors, we have this strange love-hate relationship with the stock market. We love it when it constantly clocks upward trends – and hate it when it goes downhill. To become a developed economy, India needs to have strong financial markets. A majority of Indians avoid investing their money in equity markets. In fact, out of a population of 1.3 billion, there are only 18 million investors in the equity market. It's a similar story for the mutual fund market in India – with only 2 crore investors (less than 1.5% of the population). The Indian stock market has had its share of past financial scams such as those involving Harshad Mehta and Ketan Parekh – that resulted in many stock market investors losing their money. Some of the recent scams include the Nirav Modi scam and the Satyam Computers scam. Though, with the establishment of the Securities Exchange Board of India (or SEBI), stock market trading is much more regularized – without any major market mayhems. Indian investors often cite a lack of understanding, financial risk, or other reasons for not investing their money in the stock market. Other short-term investors enter stock trading to earn a “quick buck” – and also exit the market forever after a bad experience.

KEYWORDS: Stock, Market, Money, Investment, BSE, NSE

I. INTRODUCTION

What is stock market? The market in which shares of publicly held companies are issued and traded either through exchanges or over-the-counter markets. Also known as the equity market, the stock market is one of the most vital components of a free-market economy, as it provides companies with access to capital in exchange for giving investors a slice of ownership in the company. The stock market makes it possible to grow small initial sums of money into large ones, and to become wealthy without taking the risk of starting a business or making the sacrifices that often accompany a high-paying career. The stock market lets investors participate in the financial achievements of the companies whose shares they hold. When companies are profitable, stock market investors make money through the dividends the companies pay out and by selling appreciated stocks at a profit called a capital gain. The downside is that investors can lose money if the companies whose stocks they hold lose money, the stocks' prices go down and the investor sells the stocks at a loss.



Fig 1. One of the most popular stocks in the world with their graphs

II. RELATED WORK

We have developed a website and an app. In website we have mostly used HTML,

CSS and Python. For the website we have provided many features to the user such as sign in and login option. A search option so that the user can search whichever international company stock he wants to and he can put the stock in a watchlist if he wants to view the stock later. We have also provided a comparison option so that user can compare any two company stocks for example if the user wants to compare a Microsoft and apple stock he needs to just type the stock names in the next field and the comparison will be displayed on the screen. We are also building an app that shows the stocks on the phone.

III. PROPOSED ALGORITHM

The topic we choose to explore throughout this project is Stock Market Analysis Website and App. This project is being designed and developed to easily facilitate and monitor the stock market. This project will help the people to understand how the stock market works and will also help them to a fortune out of it. While investing in stock markets has become more popular in recent times, overall penetration remains low — only 2.78 crore Indians invest in the stock markets, which is around 2% of the country's population, so this project may help the people to gain more knowledge about investments and stock market.

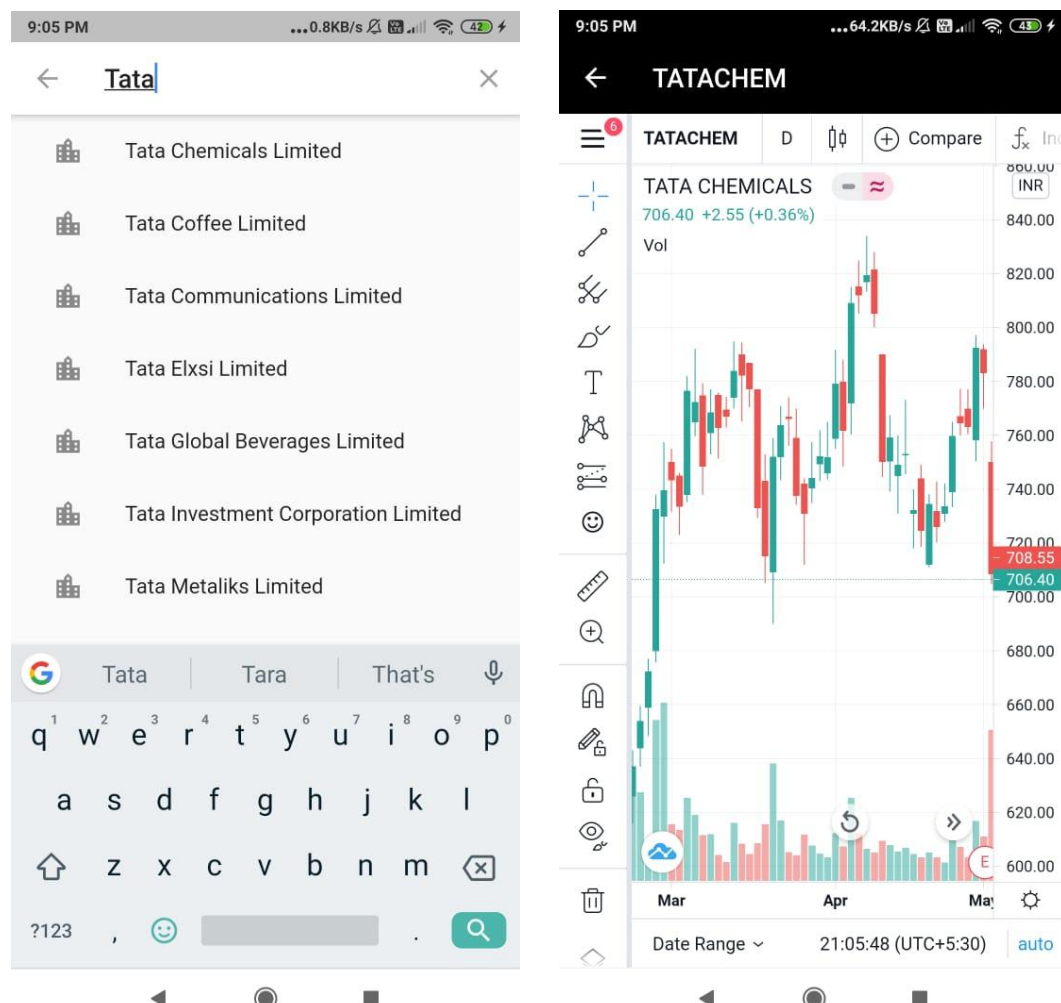


Fig 2. Searching a stock on our application and receiving the respective information for the stock

Working

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Purpose

The main purpose of this website and app is spread awareness about stock market and get more people in investing

Features

- Sign up and Login
- Viewing stocks , forex and crypto-currency along with live prices
- Searching the stocks , forex and crypto-currency
- Comparing the stocks , forex and crypto-currency

IV. SIMULATION RESULTS

We were able to create a full-fledged working website and application that would provide easy to use GUI with amazing smoothness. Apart from providing a separate Login and Register Page, we provided a strong database to track user's progress and interests and provide necessary modules which would be best in favor for the user. Furthermore, we provide different tools to analyze various types of stock data.

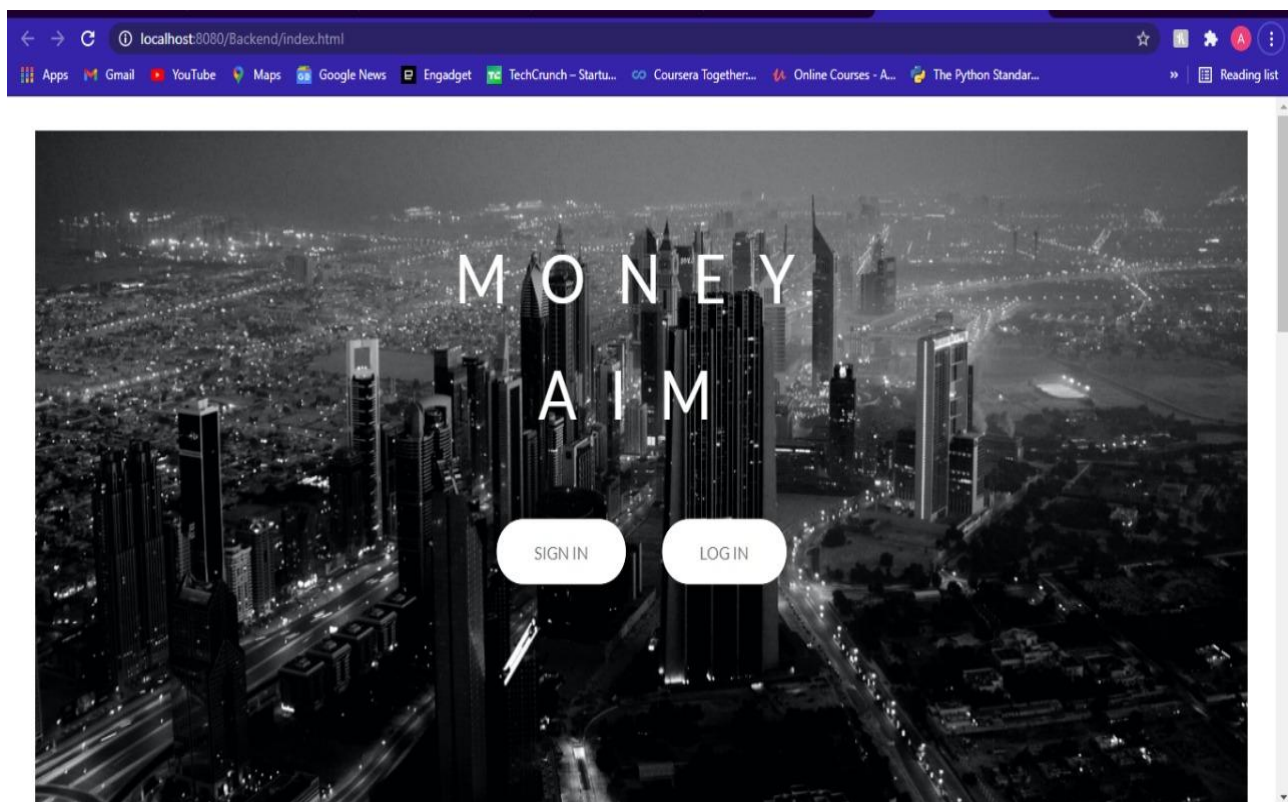


Fig 3. The Main page of our website

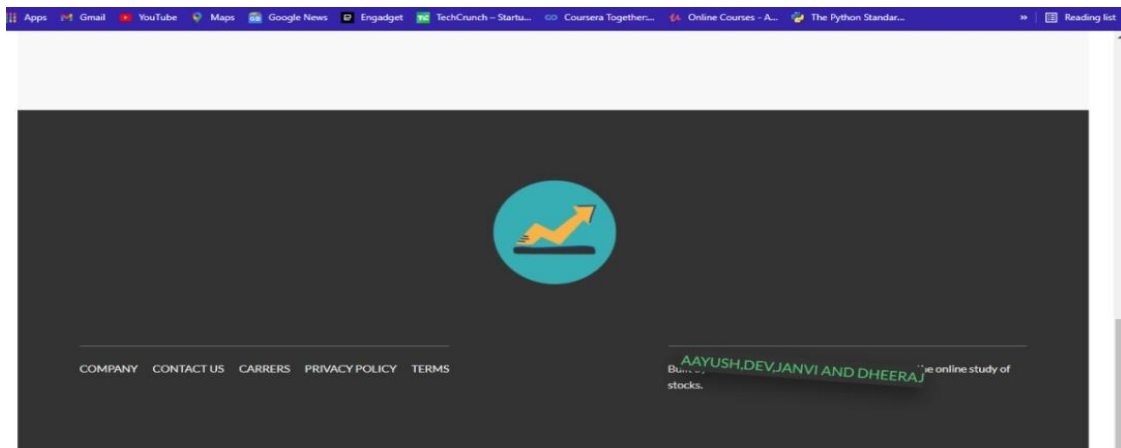


Fig 4. The 'About Us' page

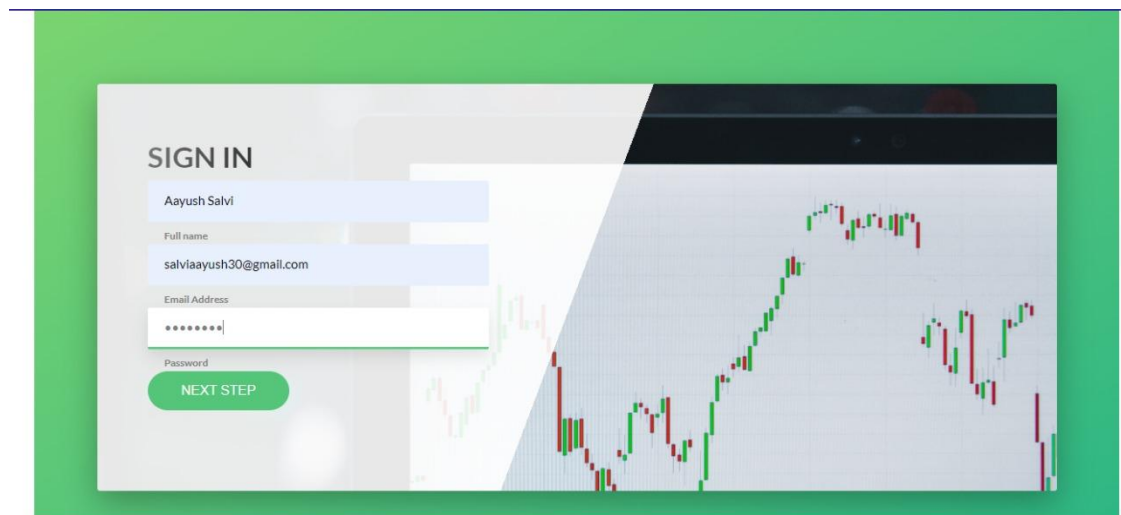


Fig 5. The Sign-in Page

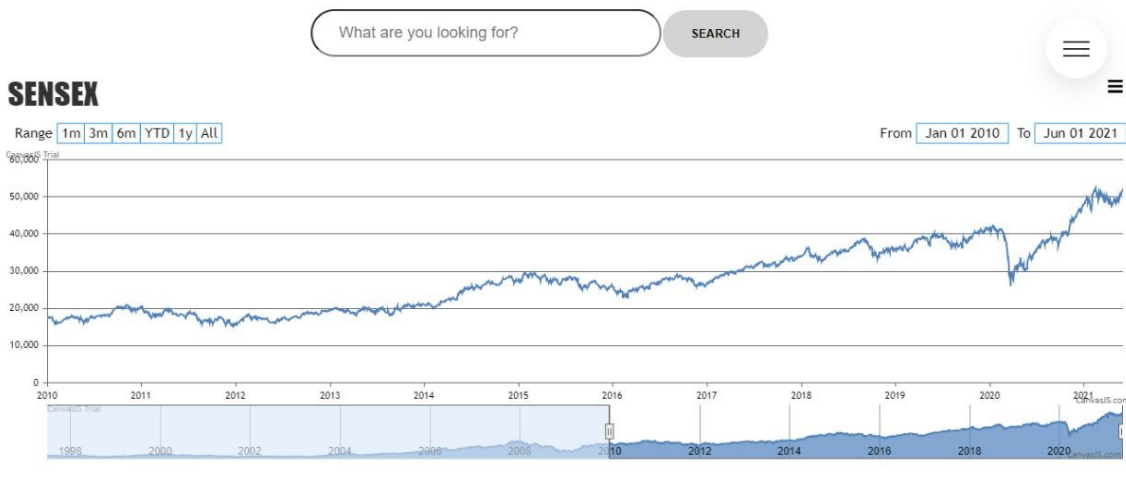


Fig 6. The Sensex graph as of May 31st, 2021

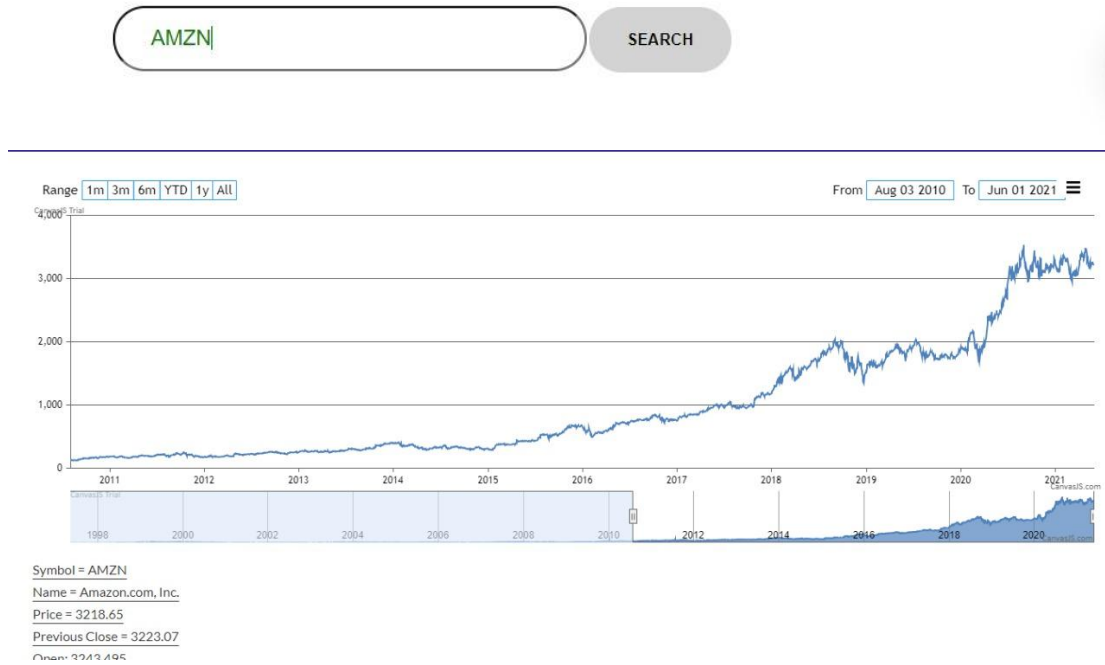


Fig 7. The Amazon graph as of May 31st, 2021

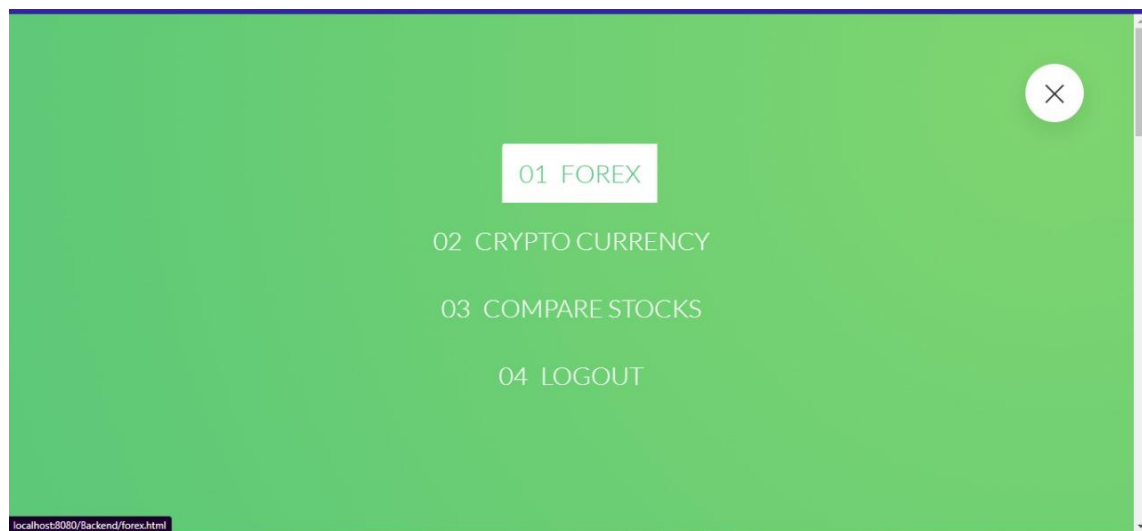


Fig 8. Some non-stock applications provided by our website

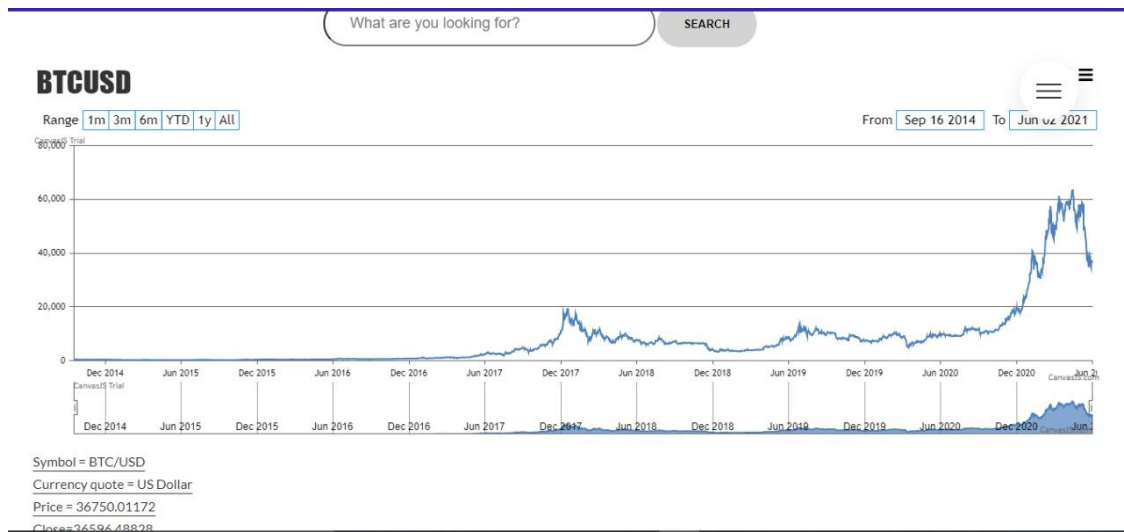


Fig 9. One of the non-stock currencies, Bitcoin's chart

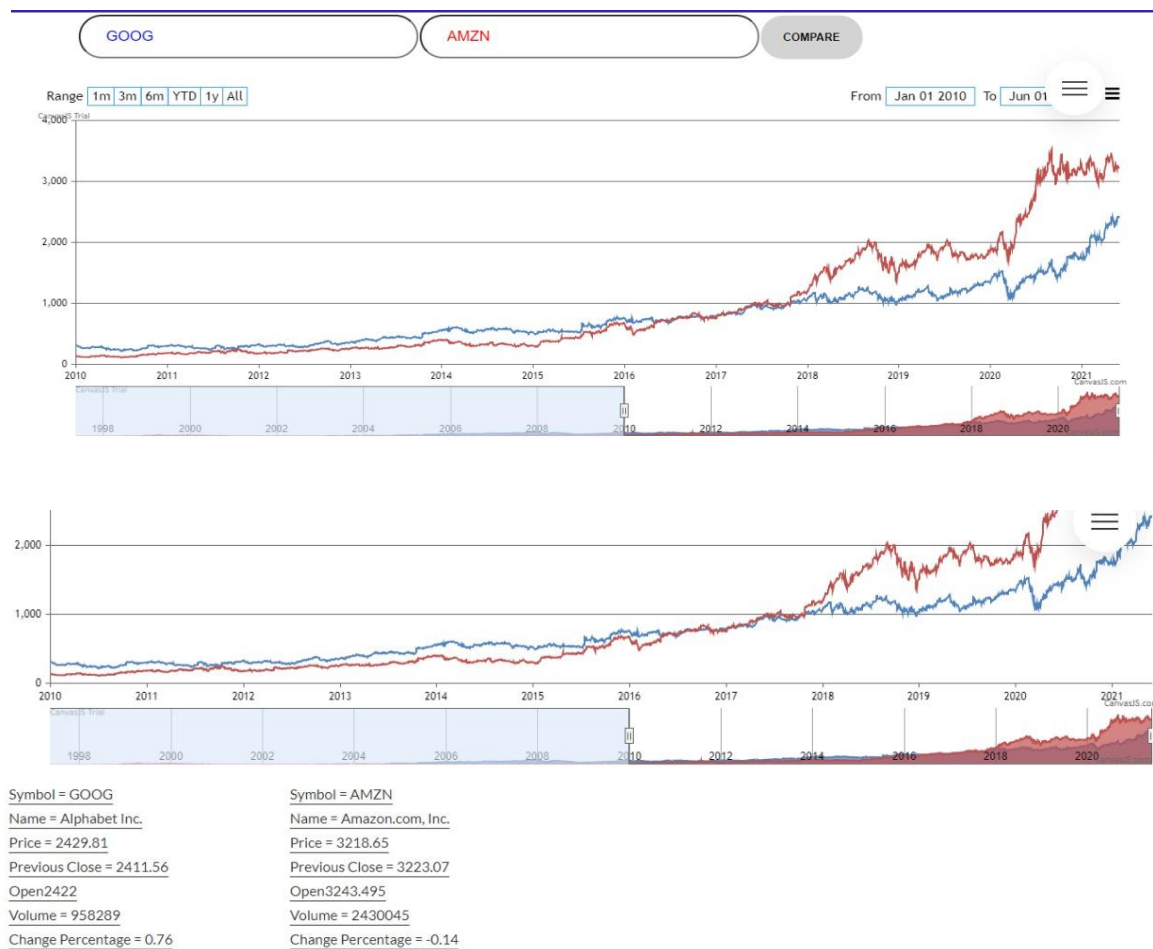


Fig 10. The comparison of the stocks of Google and Amazon

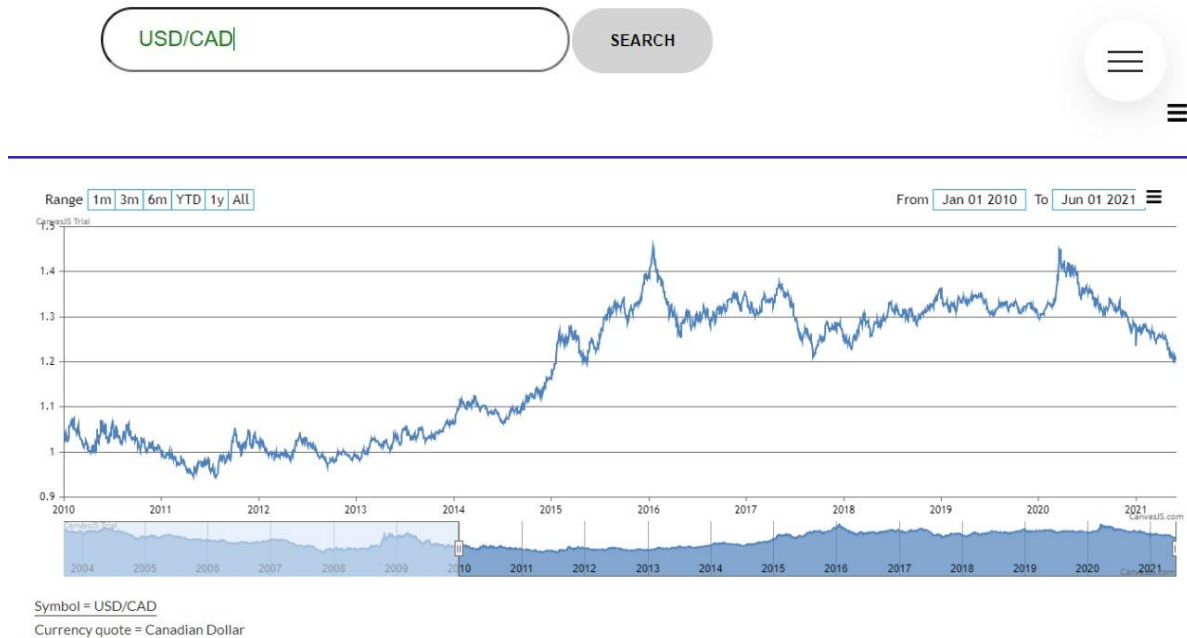


Fig 11. The United States Dollar chart

V. CONCLUSION AND FUTURE WORK

The simulation results showed that the proposed algorithm performs better with the total transmission energy metric than the maximum number of hops metric. The proposed algorithm provides energy efficient path for data transmission and maximizes the lifetime of entire network. As the performance of the proposed algorithm is analyzed between two metrics in future with some modifications in design considerations the performance of the proposed algorithm can be compared with other energy efficient algorithm. We have used very small network of 5 nodes, as number of nodes increases the complexity will increase. We can increase the number of nodes and analyze the performance.

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