



Green University of Bangladesh
Department of Computer Science and
Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2021), B.Sc. in CSE (Day/Eve)

Course Title: Operating Systems Lab
Course Code: CSE 310 Section: 193D

Lab Project Name: Simple Cryptocurrency Price Checker.

Student Details

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Lab Project Status

Marks:

Signature:

Comments:

Chapter 1 Introduction

What is cryptocurrency?

A cryptocurrency (or “crypto”) is a form of payment that can circulate without the need for a central monetary authority such as a government or bank. Instead, cryptocurrencies are created using cryptographic techniques that enable people to buy, sell or trade them securely.

The most popular cryptocurrency, Bitcoin, has had a historically volatile price. In 2021, it hit an all-time high above \$65,000 before falling back.

The birth of cryptocurrency.

Cryptocurrencies developed as a side product of another invention. Satoshi Nakamoto, the unknown inventor of Bitcoin, the first and still most important cryptocurrency, never intended to invent a currency.

In his announcement of Bitcoin in late 2008, Satoshi said he had developed “A Peer-to-Peer Electronic Cash System.”

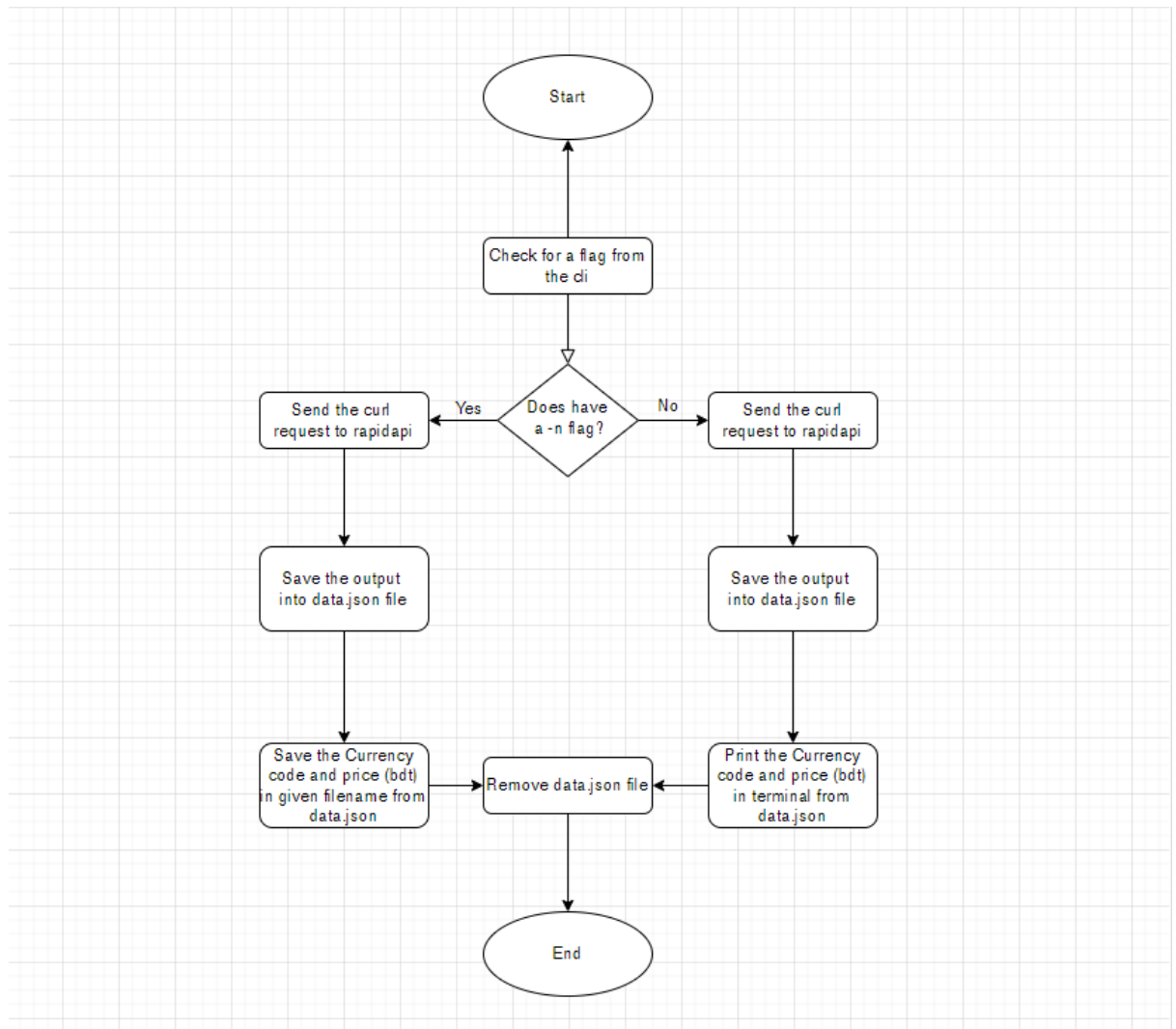
His goal was to invent something; many people failed to create before digital cash.

Announcing the first release of Bitcoin, a new electronic cash system that uses a peer-to-peer network to prevent double-spending. It’s completely decentralized with no server or central authority. – Satoshi Nakamoto, 09 January 2009, announcing Bitcoin on SourceForge.

Chapter 2

Design/Development/Implementation of the Project

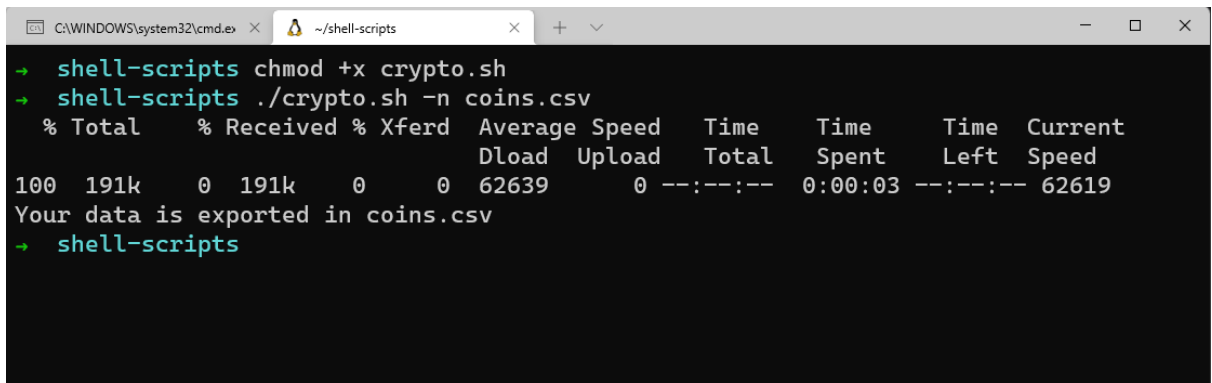
System Description



Chapter 3 Performance Evaluation

3.1 Simulation Environment/ Simulation Procedure

User Interface



```
→ shell-scripts chmod +x crypto.sh
→ shell-scripts ./crypto.sh -n coins.csv
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   100    191k    0   191k    0      0   62639      0  --:--:--   0:00:03  --:--:--  62619
Your data is exported in coins.csv
→ shell-scripts
```

3.2 Results and Discussions

| H14 | | | | | |
|-----|-------|---------|---|---|---|
| | A | B | C | D | E |
| 1 | btc | 3603953 | | | |
| 2 | eth | 277481 | | | |
| 3 | usdt | 86.37 | | | |
| 4 | bnb | 39041 | | | |
| 5 | sol | 12146.3 | | | |
| 6 | usdc | 86.15 | | | |
| 7 | ada | 105.82 | | | |
| 8 | xrp | 66.52 | | | |
| 9 | dot | 2195.11 | | | |
| 10 | luna | 6063.92 | | | |
| 11 | AVAX | 7579.47 | | | |
| 12 | doge | 13.52 | | | |
| 13 | shib | 0.00256 | | | |
| 14 | matic | 181.4 | | | |
| 15 | busd | 86.19 | | | |
| 16 | link | 2329.11 | | | |
| 17 | cro | 40.94 | | | |
| 18 | atom | 3385.21 | | | |
| 19 | wbtc | 3607008 | | | |
| 20 | ust | 86.36 | | | |
| 21 | algo | 125.41 | | | |
| 22 | near | 1330.39 | | | |
| 23 | ltc | 11439.3 | | | |

Chapter 4 Conclusion

4.1 Introduction

Conclusion

Cryptocurrency is new, and in the financial sector, new is exciting. The features of cryptocurrency that are not present in traditional financial systems – for example, its speed, its facilitation of “micro-payments”, its strictly digital nature, and its low transaction costs – will inevitably lead to exciting new business models, financial opportunities, and online business strategies.

On top of this, cryptocurrency’s open-source nature means that developers can extend functionalities by writing APIs and writing application-specific code to interact with cryptocurrency networks.

This trend will become more apparent over time as cryptocurrency becomes more widely used, but we’ve already begun to see exciting new cryptocurrency-driven developments in the free market.

4.1 Practical Implications

Ability to use APIs and the back end of any web technology. The data produced by it can be integrated into data analysis applications.

4.2 Scope of Future Work

Cryptocurrency is new, and in the financial sector, new is exciting. The features of cryptocurrency that are not present in traditional financial systems – for example, its speed, its facilitation of “micro-payments”, its strictly digital nature, and its low transaction costs – will inevitably lead to exciting new business models, financial opportunities, and online business strategies.

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This trend will become more apparent over time as cryptocurrency becomes more widely used, but we’ve already begun to see exciting new cryptocurrency-driven developments in the free market. Our future update of it will integrate a cron job with it so the data can be updated automatically from time to time.