

A CRYPTOCURRENCY TRACKER APP

ABSTRACT BY

OM SHARMA

En No:- 1202002002094

MUSKAN SINGH

En No:- 1202002002087





INSTITUTE OF ENGINEERING & MANAGEMENT
Good Education, Good Jobs

Under the Supervision of

Prof. Koushik Deb

Department of Computer Science & Engineering

Institute of Engineering & Management, Salt Lake City, Kolkata- 700091

Affiliated to -

Maulana Abul Kalam Azad University of Technology (WBUT), West Bengal.

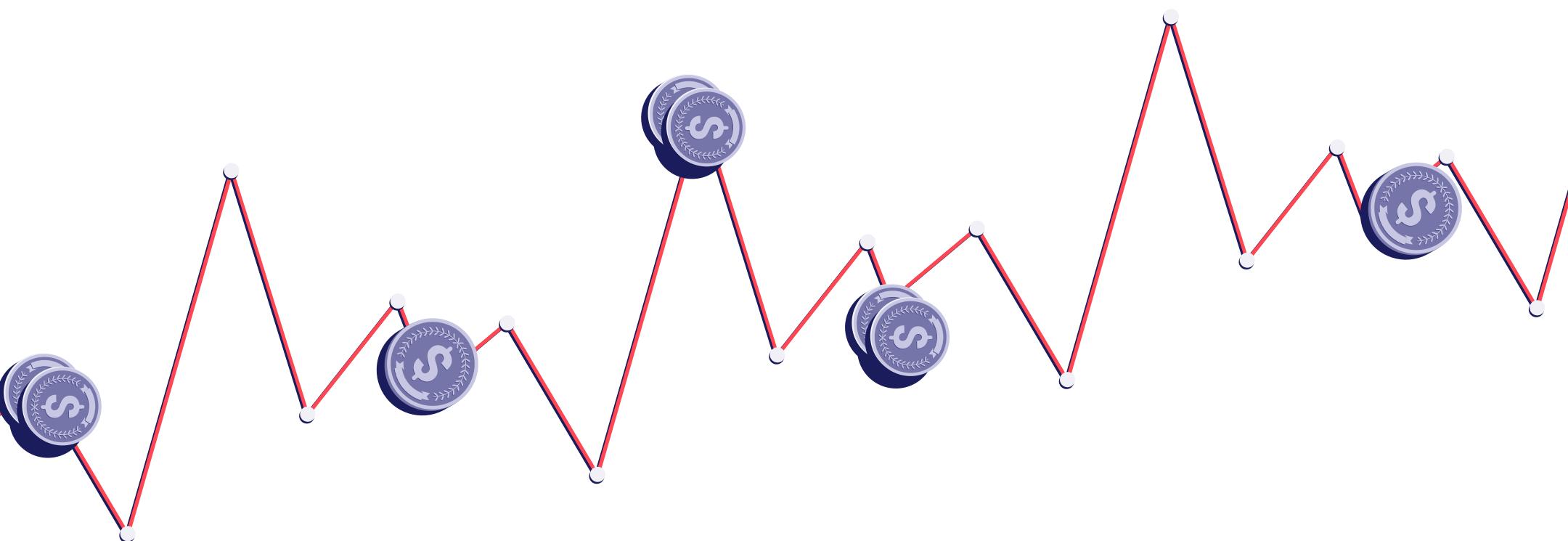


INSTITUTE OF ENGINEERING & MANAGEMENT

SALT LAKE, KOLKATA

Crypto Currency nowadays is in most demand and many people are investing in these currencies to get high returns.

Many websites and applications provide us information about the rates of different cryptocurrencies available in the Crypto Market. In this article, we will be building a similar application in which we will be displaying the rates of different cryptocurrencies inside our application in Recycler View.



Cryptology

Cryptocurrency is a digitized medium of trade that uses encryption techniques to regulate the generation of units and verify transactions as well as control the transfer of digital currencies. It's impossible to counterfeit, so it has become an attractive currency for many people who are wary of their local economy or want more privacy in their financial dealings. Today, there are over 1,000 different varieties of cryptocurrency in use, with Bitcoin being the most popular by far.

What we will be building in this application?

We will be building a simple application in which we will be displaying the rates of different cryptocurrencies inside our app's RecyclerView. we are going to implement this project using the Java language.

Implementation

- Create a new Project
- Before going to the coding section first you have to do some pre-task
- Adding dependency for Volley in build.gradle file
- Working with the activity_main.xml file
- Creating a new Java file for storing our data



- Creating a new layout file for our item of RecyclerView
- Creating a new Java class file for our Adapter class
- Generating the API key and getting the URL for fetching data in JSON format
- Working with the MainActivity.java file



A. Project Design Elements

i. Android Studio:

- Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems or as a subscription-based service in 2020. It is a replacement for the Eclipse Android Development Tools (E-ADT) as the primary IDE for native Android application development.

The following features are provided in the current stable version:

- Gradle-based build support
- Android-specific refactoring and quick fixes
- Lint tools to catch performance, usability, version compatibility and other problems
- Pro-Guard integration and app-signing capabilities
- Template-based wizards to create common Android designs and components
- A rich layout editor that allows users to drag-and-drop UI components, option to preview layouts on multiple screen configurations



ii. Adobe XD:

- Adobe XD is a vector-based user experience design tool for web apps and mobile apps, developed and published by Adobe Inc. It is available for macOS and Windows, although there are versions for iOS and Android to help preview the result of work directly on mobile devices. Adobe XD supports website wireframing and creating click-through prototypes. [9] Adobe XD creates user interfaces for mobile and web apps.

The features of Adobe XD are:

- Repeat grid: It helps creating a grid of repeating items such as lists, and photo galleries.
- Prototype and animation: XD creates animated prototypes through linking artboards. These prototypes can be previewed on supported mobile devices.
- Interoperability: XD supports and can open files from Illustrator, Photoshop, Photoshop Sketch, and After Effects. In addition to the Adobe Creative Cloud, XD can also connect to other tools and services such as Slack and Microsoft Teams to collaborate.
- XD is also able to auto adjust and move smoothly from macOS to Windows. For security, prototypes can be sent with password protections to ensure full disclosure.
- Voice design: Apps can be designed using voice commands. In addition, what users create for smart assistants can be previewed as well.
- Components: Users can create components (previously known as symbols) to create logos, buttons and other assets for reuse. Their appearance can change with the context where they are used.



BIBLIOGRAPHY:

- Black, F. 1970. *Banking and interest rates in a world without money: the effects of uncontrolled banking*. *Journal of Bank Research*, 1 (Autumn): 9–20.
- Fama, E. F. 1980. *Banking in the theory of finance*.
- *Journal of Monetary Economics*, 6: 39–57.
- Hall, R. E. 1982. *Monetary trends in the United States and the United Kingdom: a review from the perspective of new developments in monetary economics*.
- *Journal of Economic Literature*, 20: 1552–6.
- Kareken, J. and Wallace, N. 1981. *On the indeterminacy of equilibrium exchange rates*.
- *Quarterly Journal of Economics*, 96(2): 207–22. doi: 10.2307/1882388
- Meiklejohn, S., Pomarole, M., Jordan, G., Levchenko, K., McCoy, D., Voelker, G. M. and Savage, S. 2013. *A fistful of Bitcoins: characterizing payments among men with no names*.
- *Proceedings of the 2013 Conference on Internet Measurement*. <http://cseweb.ucsd.edu/~smeiklejohn/files/imc13.pdf>; <http://dx.doi.org/10.1145/2504730.2504747>.
- Nakamoto, S. 2008. *Bitcoin: A Peer-to-Peer Electronic Cash System*. bitcoin.org.
- <https://bitcoin.org/bitcoin.pdf>.
- Wallace, N. 1983. *A legal restrictions theory of the demand for 'money' and the role of monetary policy*. *Federal Reserve Bank of Minneapolis Quarterly Review*, 7: 1–7.



REFERENCES:

- "Learning JAVA"- Book by David Ascher and MARK LUTZ,1999
- "Learning Python by Building Games: A Beginner's Guide to Python Programming and Game Development" - Book by Sachin Kafle,2019.
- <https://flutter.dev/>
- <https://www.adobe.com/in/products/xd.html>
- <https://www.learnpython.org/>
- <https://www.youtube.com/channel/UCwXdFgeE9KYzIDdR7TG9cMW>
- https://www.youtube.com/watch?v=E2RsTm8U2x4&list=PLkiM1tZke4mivrZRPcqp_8oHFxD8-IP5

Signature of Team Members:

Member 1: **OM SHARMA**

Member 2: **MUSKAN SINGH**

Signature of the Mentor:

Koushik Deb

Date of Submission:

07.11.2021

