

CoinExpo - A Cryptocurrency Prices Webapp

A Minor Project Synopsis Submitted to



Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards Partial Fulfillment for the Award of

Bachelor of Technology

(Computer Science and Information Technology)

Under the Supervision of:

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Submitted By

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Project Proposal: *CoinExpo*

Project Category:

Data Science based Web Application

Problem Statement:

It is tough to acquire reliable information in the age of social media, with one tweet pumping up stock values in a flash to brazenly crashing markets.

It is necessary to have a platform that displays current trends as well as previous bends and turns in order to provide you with precise statistics and figures. Having a platform you can trust on for accurate information and options to compare and analyse before investing will prove to be of great help.

Scope:

Cryptocurrencies are becoming increasingly popular and will become highly valuable in the future. Because cryptocurrencies are fast, it allows for quicker and safest transactions. In addition, cryptocurrency is decentralised, which makes it trustworthy. A large number of companies and brands have begun to accept cryptocurrency as a payment method. This web app will be very helpful and efficient for those who are interested in cryptocurrency as this project will help you to check prices of up to the top 100 cryptocurrencies along with a graph of modifications in prices on daily basis and it will also compare the prices and exchange rates of different currencies. Along with this, it will also display a summary of a certain currency, making it easier for the user to gain a better understanding.

Specific Objectives:

- *To access near real time prices, exchange rates and historical trade data.*
- *To be able to present scraped data graphically.*
- *Display correct statistical information about current as well as previous performance of different cryptocurrencies.*
- *Adding on a currency converter feature.*

Stakeholders of Project:

This project is extremely beneficial for individuals who are crypto enthusiasts, investors, and newbies who wish to enter into the crypto pool.

Background:

We have undertaken this project so that it will be convenient for cryptocurrency enthusiasts to use and understand cryptocurrency simply. Whether you have to discern prices, compare prices, see the changes in prices, conversion of currency or know the summary, all can be done in one place.

Whether the Implementation and deployment of the project idea (yes/no):

a) Has Social benefits- No

b) Has Environmental Benefits- No

c) Considers health, safety, legal and cultural issues- Yes

d) Considers sustainable development (economic development that is conducted without depletion of natural resources)- No

e) Applies ethical principles while selecting project (not to steal other's project idea, code and documents)- Yes

f) Commits to professional ethics and responsibilities and norms of the engineering practice- Yes

g) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools- Yes

h) Identify, formulate, review research literature, and analyze engineering problems reaching substantiated conclusions- Yes

Technological know-how required for proposed project idea:

Tools and Technologies -

- 1. Python 3.0*
- 2. Streamlit*
- 3. Database- Mysql, MongoDB*
- 4. Heroku*

Hardware requirements -

- 1. Modern Operating System:*
 - a. Windows 7 or 10*
 - b. Mac OS X 10.11 or higher, 64-bit*
 - c. Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu)*
- 2. x86 64-bit CPU (Intel / AMD architecture)*
- 3. 4 GB RAM*
- 4. 5 GB free disk space*

Key Personnel and their expertise:

Student Name and Enrollment No.	Technical Expertise
<i>Varun Bairagi</i>	<i>Frontend, Python</i>
<i>Vidhi Sethiya</i>	<i>Python, APIs</i>
<i>Yashika Khatri</i>	<i>Frontend, Python</i>
<i>Prof. Manoj Gupta</i>	

Proposed Timetable:

	Description of Work	Expected no. of weeks to complete the module
Module One	<ul style="list-style-type: none"> ● Researching about different APIs to use. ● Studying documentation. ● Preparing Synopsis and Presentation. 	1 Week
Module Two	<ul style="list-style-type: none"> ● Studying, implementing and working with different python libraries. 	3 Weeks
Module Three	<ul style="list-style-type: none"> ● Implementation and testing frontend with Streamlit. ● Designing user-friendly UI. 	1 Week
Module Four	<ul style="list-style-type: none"> ● Final coding, integration and testing of web app. ● deploying the web app. 	2 Weeks

Project Benefits:

- 1. Real time cryptocurrency prices, exchange rates and history.*
 - 2. Helps crypto enthusiasts and newbies to explore, compare different currencies.*
 - 3. Currency converter add-on helps you get your calculations done all in one place.*
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