

WIEHACK 3.0

Theme

Financial Technology

Team Name

CryptoSquad

Participants

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College

ABES Engineering College

Event Partners

CHIEF EDUCATION PARTNER **INFIGON**

PROBLEM STATEMENT



India has recently started to invest more in cryptocurrency. To help more and more people, there is a need of an informative page which can tell them about latest news, prices and predictive future prices of a particular cryptocurrency.

According to Economic Times, People over the age of 45 have started to 'explore' the world of digital currency.



Indians over 45 are exploring the wild west of cryptocurrency

SOLUTION



Since, people have now started to move towards digitization they have started to accept cryptocurrency as the new currency. But since it is just a start they need to be aware and well-informed about the direction they're moving in.

We propose a solution in the form of a web application that will keep everyone up-to-date with the the world of cryptocurrency. User will get live information of news, prices and trends. An in-depth history will be provided for the top 7 cryptocurrencies. To help people invest, we will also add a predictive tool which will predict the future prices of the currencies. Meme lovers will also be taken care of by our meme page.

TECH STACK

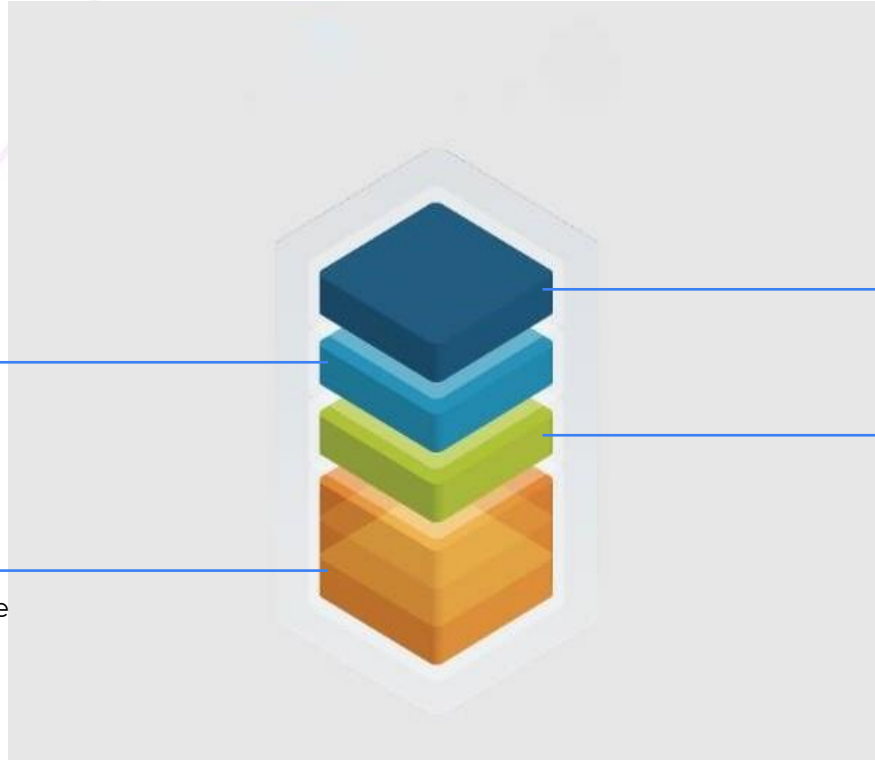


Back-end

The technology to be used is- Django

Front-end

The technologies to be used are- HTML, CSS, Bootstrap



Back-end database

to be used is SQLite

AI/ML

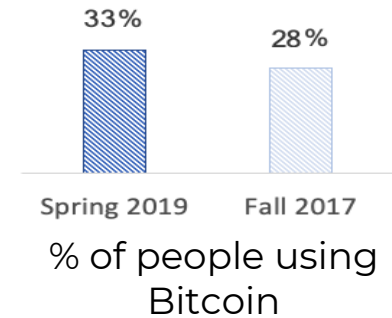
The libraries to be used are- numpy, pandas, seaborn matplotlib, keras, tensorflow

MARKET ANALYSIS

A lot of websites are present in the market which give live information of a few cryptocurrencies but our website will give live information about 7 different cryptocurrencies.

In 2019, 5% more people had invested in Bitcoin as compared to in 2017. Now, since people are leaving their traditional currency methods behind, it is likely to see more rise in the percentage of people who will be moving towards this new currency. The market is huge and it will surely expand in the future, and it might become hard for an individual to be up-to-date.

Our website will help investors as well as new comers to be aware of the crypto world at all times.



IMPLEMENTATION



Full deployment

As we complete the front and back-end development we will integrate the whole project together to get an informative product

Front-end development

We started making an interactive web application which will include tags such as live pricing, live news and many more

Back-end development

We started working on fetching APIs for getting live information

Ideation

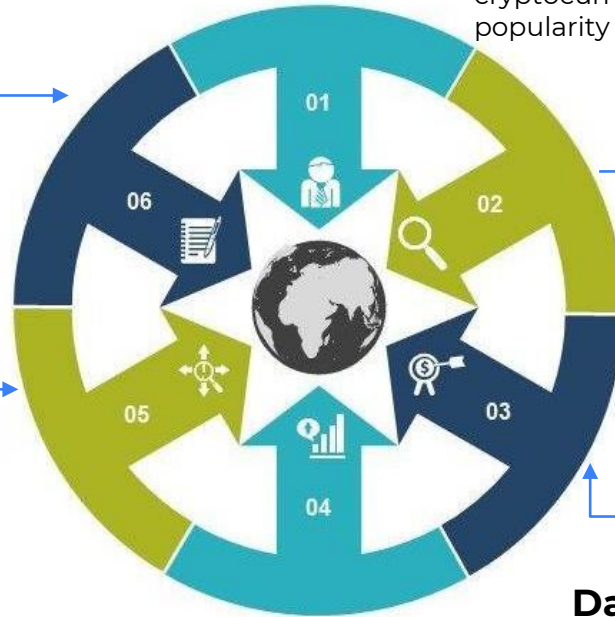
We thought of developing a webpage which gives information of cryptocurrency, owing to its popularity

Research

After ideating on the topic more, we did some research work through online surfing and decided to make a web application on the topic of cryptocurrency, to help others by adding various new and unique features

Data collection and AI

We collected the data of 7 cryptocurrencies to gather information about trends and develop a predictive model



FLOW CHART

Ideation

Looking at the increasing popularity of cryptocurrency, we thought of doing something in the same field

Research

We surfed the internet to gain more knowledge about the cryptocurrency world

Data collection and AI

We collected to data to gain insights in trends of different cryptocurrency and to make a predictive model

Front-end development

We are developing the frontal part of the web page which will contain a lot of information

Back-end development

We are working on fetching APIs to get live information of prices and latest news

Full deployment

We will integrate all the models together

Final model

After deployment we will have a full working model which gives live information and has a predictive tool too

WORK PREVIOUSLY DONE

- Ideated on the whole project
- Identified our needs and technologies to be used
- Gained more information about technologies to be used
- Researched more about cryptocurrency over-all
- Collected dataset of 7 most popular cryptocurrencies
- Made an unique logo for our website

WORK CURRENTLY DOING

- **AI/ ML**

Since we have the dataset we are working on building an AI based predictive model

- **BACK-END**

We are trying to add more APIs to gain more live information and news

- **FRONT-END**

We are adding tags for different webpages, which will contain in-depth information of 7 most popular cryptocurrencies, live news and live pricings.

WORK TO BE DONE

- After developing front-end, back-end and the AI model we will integrate all of them to form an informative website .
- At last, we will deploy our working website

SCREENSHOTS/IMAGES



Logo of our website, which we have named 'crypto-e-express'

Welcome To Live Prices of CryptoCurrencies

Name	Live Price	24 hour Highest	24 hour Lowest	Market Cap
BTC	\$ 38,437.3	\$ 38,785.6	\$ 35,287.7	\$ 719.30 B
ETH	\$ 2,444.66	\$ 2,486.25	\$ 2,158.17	\$ 283.53 B
BNB	\$ 327.43	\$ 335.96	\$ 285.10	\$ 55.48 B
USDT	\$ 1.00	\$ 1.00	\$ 1.00	\$ 58.75 B
ADA	\$ 1.55	\$ 1.58	\$ 1.37	\$ 49.65 B
DOGE	\$ 0.3543	\$ 0.3606	\$ 0.3173	\$ 45.91 B
TRX	\$ 0.07735	\$ 0.07936	\$ 0.07118	\$ 7.80 B

Data fetched through APIs of live pricing

```
from django.shortcuts import render, redirect
import requests
import json

# Create your views here.

def index(request):
    return render(request, 'index.html')

def price(request):
    price_request = requests.get("https://min-api.cryptocompare.com/data/pricemultifull?fsyms=BTC,ETH,BNB,USD")
    price = json.loads(price_request.content)
    return render(request, 'price.html', {'price': price})
```

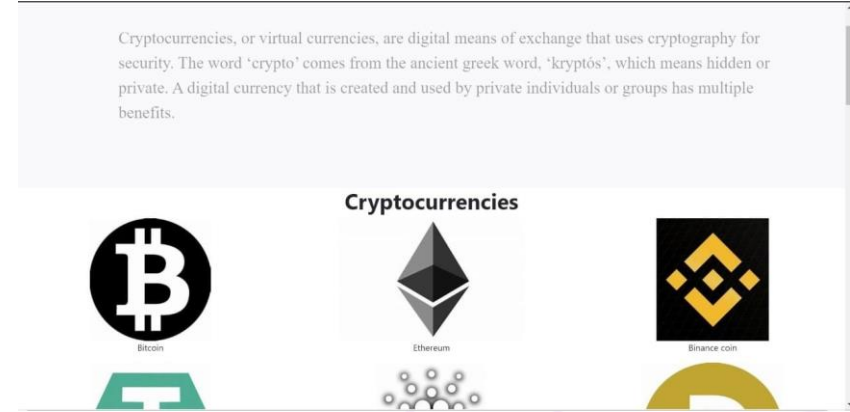
Django code for live price API

```

364 </li>
365 </li>
366 </ul>
367 </div>
368 </div>
369 </div>
370 </nav>
371 <!--<section id="wrapper_imaged">
372 </section>...
373 </section>
374 <section id="wrapper_image9"><div class="grid20"><p>Cryptocurrencies, or virtual currencies,
375 are digital means of exchange that uses cryptography for security. The word 'crypto' comes from the ancient
376 greek word, 'kryptós', which means hidden or private. A digital currency that is created and used by private individuals or groups has
377 multiple benefits.</center></p>
378 </section>
379 <section id="wrapper_image7">
380 <div class="text53"><h1><b><center> Cryptocurrencies </center></b></h1></div>
381 <div class="row">
382 <!-- <div class="grid15"> --><div class="col-lg-4 grid15"><center><a href="abc1.html"></a><p>Bitcoin</p></center>
384 </div>
385 <!-- <div class="grid15"> --><div class="col-lg-4 grid15"><center><p>Ethereum</p></
386 center>
387 </div>
388 <!-- <div class="grid15"> --><div class="col-lg-4 grid15"><center> <p>Binance coin</
389 p></center>
390 </div>
391 <div class="row">
392 <!-- <div class="grid15"> --><div class="col-lg-4 grid15"><center><p>Tether</p></
393 center>

```

HTML page for front page



Home page of web application

```
df=pd.read_csv('binance_coin.csv')  
df.head()
```

Dataset of Binance coin

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-05-21	14.1254	14.7879	13.8167	14.7223	14.7223	97367296.0
1	2018-05-22	14.5709	14.8351	13.7492	13.9255	13.9255	86545104.0
2	2018-05-23	13.8529	13.9252	12.3343	12.6262	12.6262	68215200.0
3	2018-05-24	12.6100	13.1909	12.2015	13.0003	13.0003	54410900.0
4	2018-05-25	13.0326	13.3706	12.6353	13.0080	13.0080	49173800.0

Change in trend of Bitcoin open and close prices for last 5 years



Graph of change in trends of bitcoin

THANK YOU