K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

Roll No: 16010121819
Batch: B4
Date: 31-03-2022
Experiment No: 3

Experiment No 3 :

Title: Describe stepwise Implementation details of mini project.

Objective:

To understand the implementation process of the project.

Expected Outcome of Experiment:

Course Outcome	After successful completion of the course students should be able to
CO3	Implement and test the hardware/ software algorithms to meet the desired specifications.
CO4	Analyze, interpret results and correspondingly modify the designed system to get the desired results.

Books/ Journals/ Websites referred:

1. **www.javatpoint.com**
2. **www.guru99.com**

Introduction:

Describe the need of this stage in project

The coding phase in the software engineering paradigm is usually defined after the designing phase. In this phase, the developers or the coders have to implement the software design practically using any computer language(s) so that the software can be created and the user can use it. This is the main step to be performed, and to ensure that this step is performed efficiently

and is prone to minimum errors, the rest of the steps included in the software lifecycle model are followed.

Now, the coding is not just a matter of implementing the code in any suitable language as per the developer's choice. Some norms and standards are set for this purpose which is known as the coding standards. Usually, good software developing organizations ensure that the developers of their software follow these standards to produce good quality software. Some of the organizations follow these standards strictly, while some make some modifications and alterations in these to meet their need and their quality levels.

Title of Mini Project: Crypto Fetcher

Team Members:

1. 16010121813 – Manav Rupani
2. 16010121818 – Bhavya Sura
3. 16010121819 – Chinmay Teli

Implementation details :

The whole project is built around the web-scraper which is used to get the crypto-currency data from the websites and then the backend comes in which performs the exhaustive computation to perform the analysis part and applying some operations so that we can present the processed data to the users/clients and give him presentable analysed and processed data in a systematic way. Other than that, the database and backend will be used for login and authentication purposes. We'll require some basic fields like user id, password, and other details into the database.

Functions Implemented:

1) **Login and Register:**

   Through the forms interface, users can easily login and register themselves to the website. After logging in they will be able to view the website.

2) **Download CSV:**

   On the click of a button, the users will be able to download the csv file giving the analysis of 1000 cryptocurrencies.

3) **History:**

   The user will be able to download and view the csv files that he/she scraped in the past.

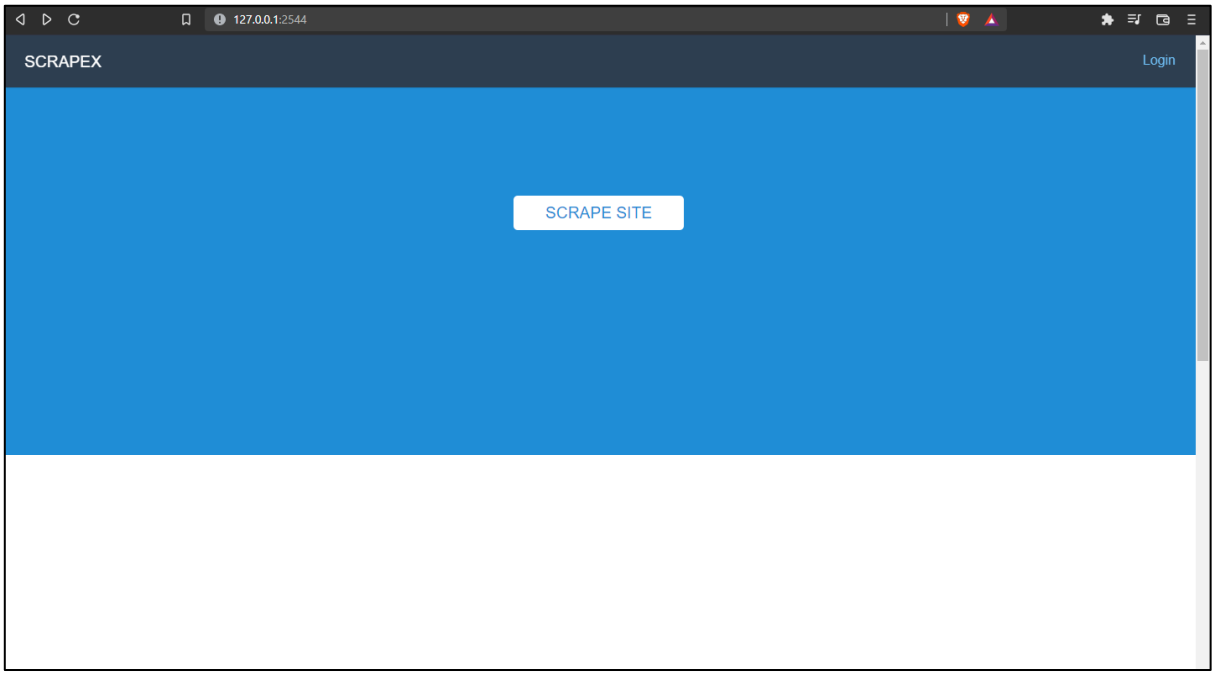
User interface :

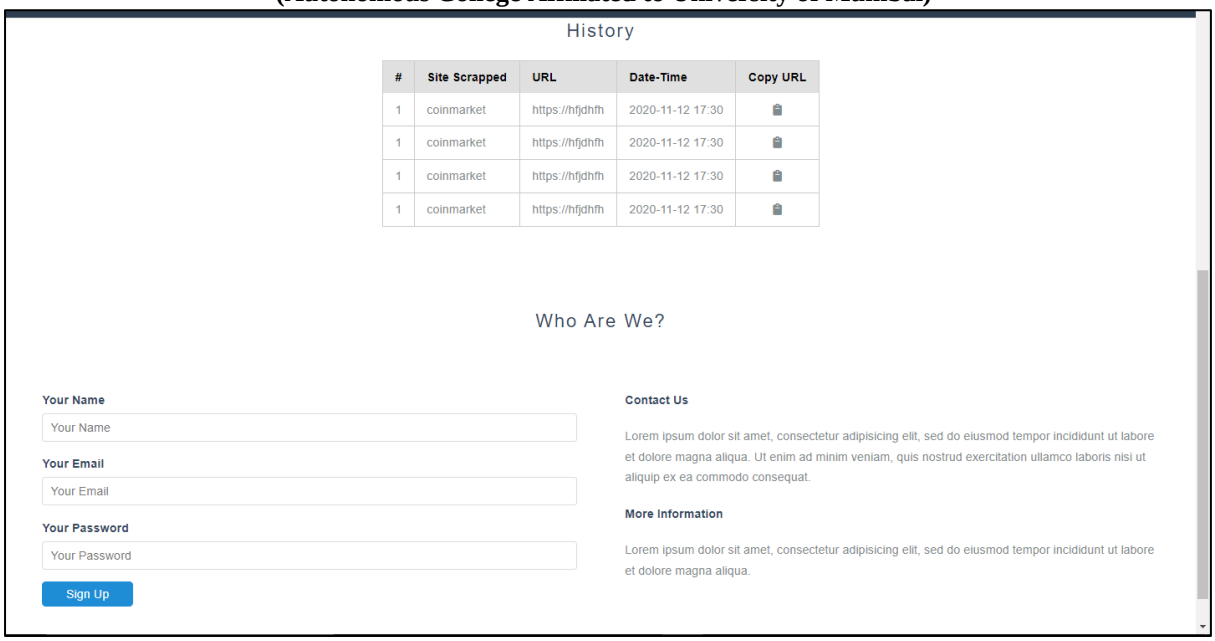
All the pages are implemented using HTML, CSS for UI/UX design, JavaScript for client-side validation, Django as backend and SQLite3 as database. The excel file is generated using Python.

The database contains User's First Name, Last Name, Email Id, Phone number, Password and Scraped Excel Sheets as fields.

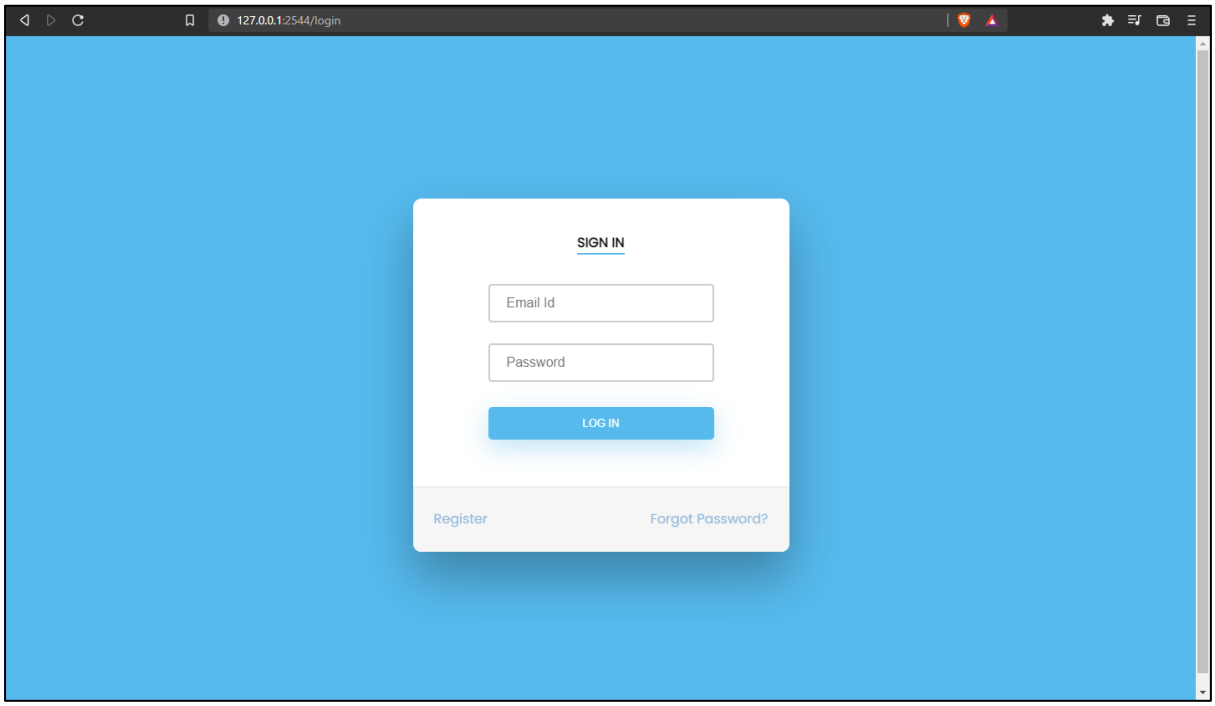
The following are the implementation screenshots.

Main Landing Page:

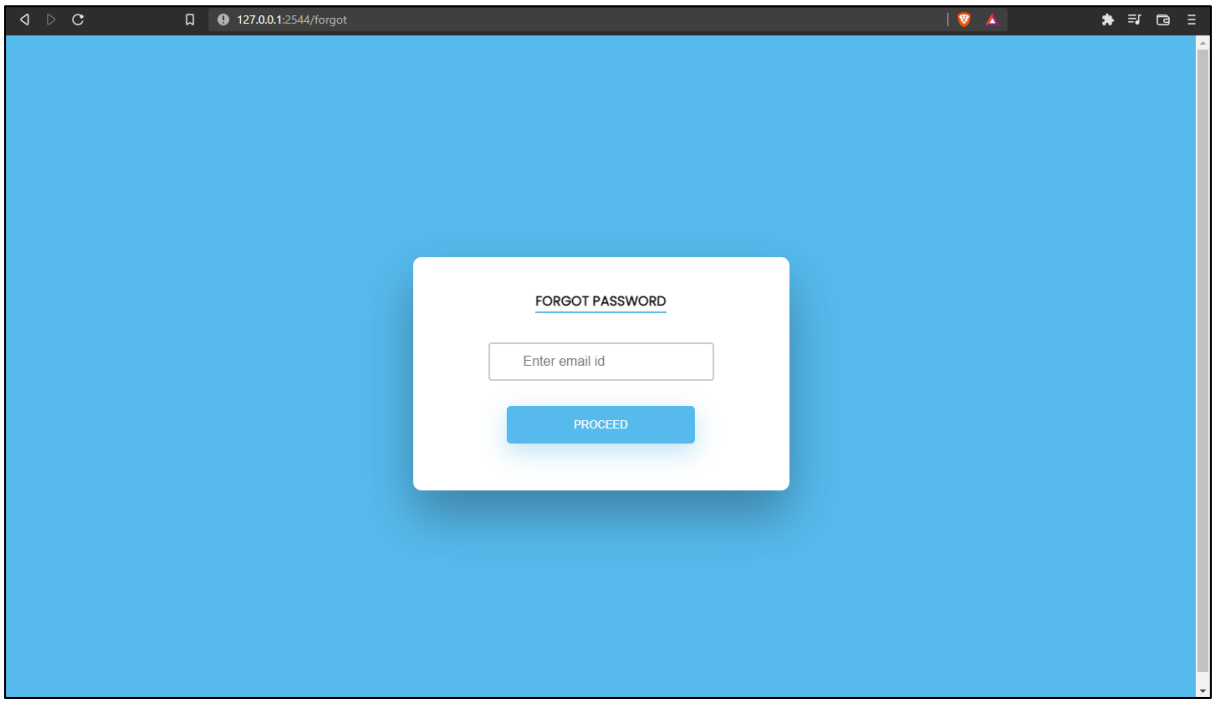



History
Site Scrapped URL Date-Time Copy URL
1 coinmarket https://hfjdhfh 2020-11-12 17:30
1 coinmarket https://hfjdhfh 2020-11-12 17:30
1 coinmarket https://hfjdhfh 2020-11-12 17:30
1 coinmarket https://hfjdhfh 2020-11-12 17:30
Who Are We?
Your Name
Your Name
Your Email
Your Email
Your Password
Your Password
Sign Up
Contact Us
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
More Information
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

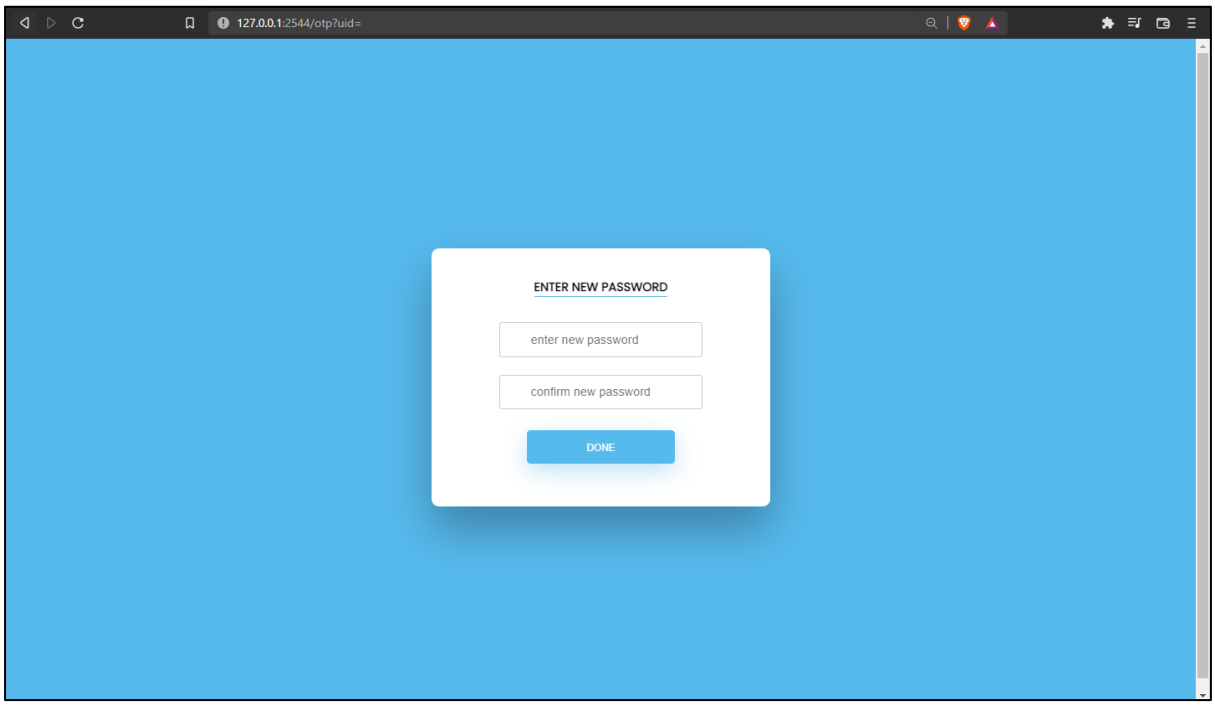
Login:


127.0.0.1:2544/login
SIGN IN
Email Id
Password
LOG IN
Register
Forgot Password?

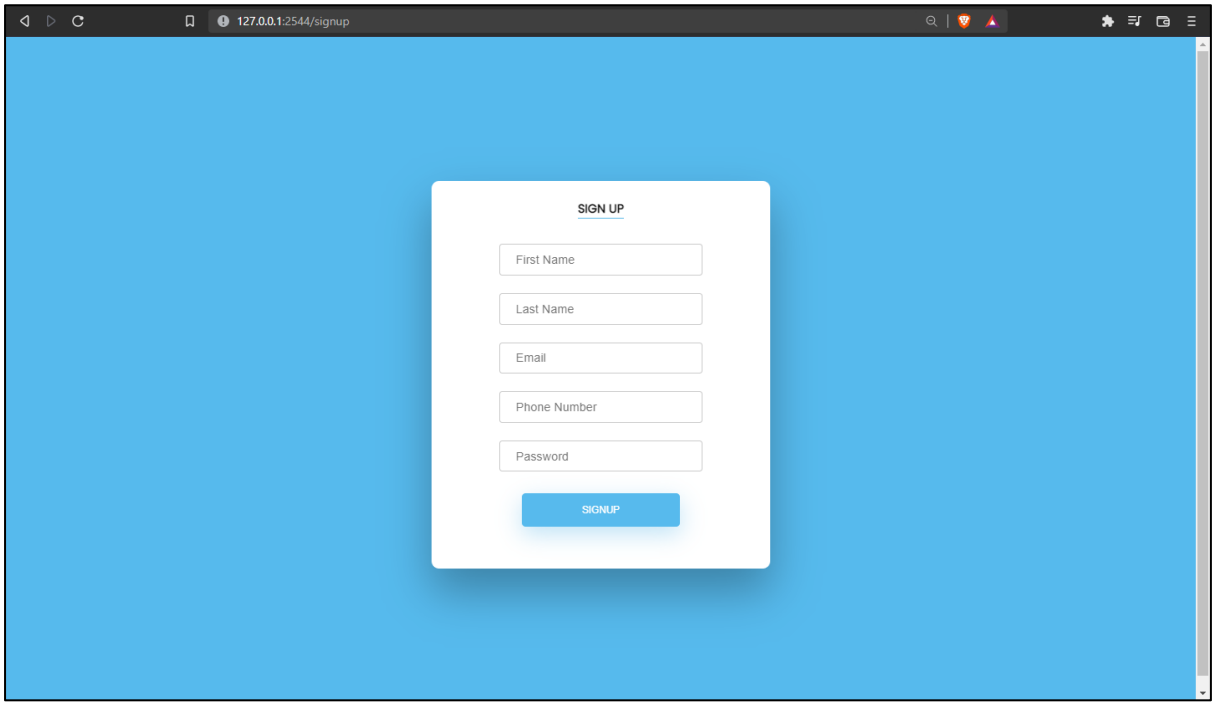
Forgot Password:



Enter New Password:



Signup:



Downloaded Excel File:

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Coin	Price	1h_Chang	24h_Chan	7d_Chang	24h_Volume	Market_Capital
Bitcoin	$47,075.60	0.20%	-0.70%	10.00%	$22,976,968,950	$894,377,779,679
Ethereum	$3,395.45	0.10%	0.00%	12.10%	$13,441,571,408	$408,608,696,192
Tether	$1.00	0.00%	0.00%	0.10%	$63,025,747,764	$81,928,230,789
BNB	$443.48	0.20%	2.50%	8.80%	$1,878,334,627	$74,563,055,988
USD Coin	$1.00	0.00%	0.30%	0.60%	$3,595,606,125	$51,947,212,376
XRP	$0.86	0.30%	0.20%	3.20%	$2,313,229,801	$41,594,649,389
Solana	$121.75	0.80%	9.00%	28.30%	$3,212,945,300	$39,656,073,591
Cardano	$1.21	0.10%	1.50%	9.30%	$1,384,042,659	$38,688,510,639
Terra	$106.98	0.40%	0.50%	12.60%	$2,399,970,372	$37,983,529,967
Avalanche	$98.85	1.00%	6.40%	14.90%	$1,945,077,685	$26,458,319,735
Polkadot	$22.77	0.70%	1.90%	8.60%	$890,479,592	$25,052,283,920
Dogecoin	$0.15	0.60%	1.90%	12.20%	$1,494,792,606	$19,281,858,146
Binance USD	$1.00	0.00%	0.00%	0.00%	$5,009,468,064	$17,464,623,025
TerraUSD	$1.00	0.00%	0.10%	-0.10%	$795,721,451	$16,351,642,022
Shiba Inu	$0.00	0.20%	2.20%	13.30%	$1,436,023,427	$15,242,792,575
Wrapped Bitcoin	$47,061.22	0.10%	-0.70%	10.00%	$204,523,484	$12,905,519,783
Cronos	$0.48	0.10%	-0.10%	10.30%	$82,474,389	$12,087,090,020
Polygon	$1.71	0.40%	2.50%	10.00%	$798,726,573	$11,765,108,125
Lido Staked Ethe	$3,394.16	0.10%	-0.20%	12.40%	$82,418,453	$9,873,068,706
NEAR Protocol	$14.02	0.20%	-3.70%	12.30%	$520,302,928	$9,320,933,484
Dai	$1.00	0.00%	0.10%	0.00%	$266,822,633	$9,221,183,500
Litecoin	$130.23	0.70%	1.20%	6.50%	$863,496,057	$9,111,168,917
Cosmos Hub	$30.37	0.90%	0.00%	7.80%	$839,874,836	$8,848,752,384
Chainlink	$17.38	0.60%	0.50%	10.20%	$671,204,046	$8,115,624,464
TRON	$0.08	1.00%	8.60%	17.00%	$1,948,504,257	$7,640,009,765
Bitcoin Cash	$379.79	0.40%	1.50%	4.90%	$726,725,105	$7,223,914,842
FTX Token	$50.95	0.00%	0.20%	10.40%	$118,800,924	$7,000,418,464