

Team Nahasapeemapetilon -- The End

SoftDev pd07

2019-01-07

Roles

Adil Gondal - Prime Minister

Amit Narang - Chief Justice of India

Rubin Peci - Minister of Defense

Qian Zhou - Minister of Home Affairs

CryptUwU - Cryptocurrency Forum

Components:

Front End:

Foundation: Make page look nice; perhaps allow dropdowns so that less space may be needed and facilitate navigation

JavaScript: Used to facilitate navigation and display of threads without the need to refresh page; perhaps alerts could be used to notify user in things such as login

APIs:

Nomics, provide current/historical data for cryptocurrencies; to be displayed in CHARTS page

Libraries:

json, turn strings into dictionaries, allow for parsing through data

Flask, create page

urllib, retrieve info from urls

time, creates timestamp

sqlite3, database

passlib, hashing passwords

util

crypto.py, connects with nomics api and retrieves appropriate data;

uses urllib, json;

forum.py manages forum functions, such as: making a thread and replying to a thread, upvote, preparing data for display in forum.html and thread.html; (preparing data for display in home.html?)

connects with posts.db, users.db;

uses sqlite3, time;

If too big, may split into another thread.py to handle individual thread issues

user.py, enables user function, such as login verification, register account, and deal with posts/comments/votes that user has made;

connects with users.db;

uses sqlite3, passlib;

data

keys.json, store keys

users.db, contain tables login, user_posts, user_saved_coins

posts.db, contain tables threads, thread_id

templates

home.html, home page; uses forum.py to generate crypto.py to get Bitcoin graph

profile.html, profile page; uses user.py to generate

register.html, allows user to register or login

forum.html, displays the threads for each subtopic of a topic; uses forum.py to generate

thread.html, displays particular thread; uses forum.py

charts.html, information about major cryptocurrencies; uses crypto.py to generate

app.py

root: display home.html; calls on forum.py & crypto.py

auth: authenticates with user.py, (correct: redirects to profile)

profile: loads profile.html

register_page: loads register.html

register: authenticates registration w/ user.py, (yes: root, no: register_page)

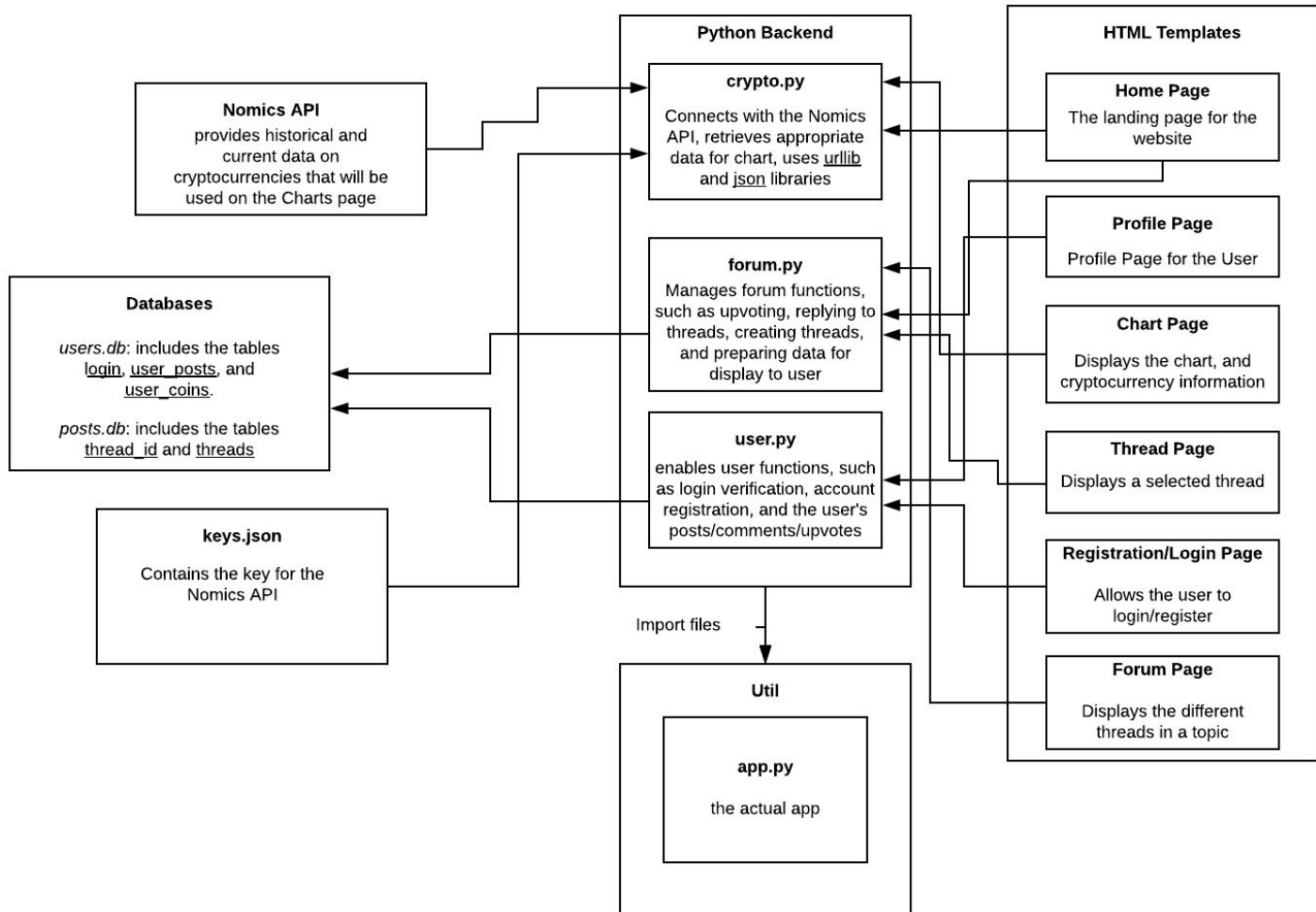
forum: loads forum.html, gets request (topic & subtopic), w/ forum.py

thread: loads thread.html, gets request (id), with forum.py

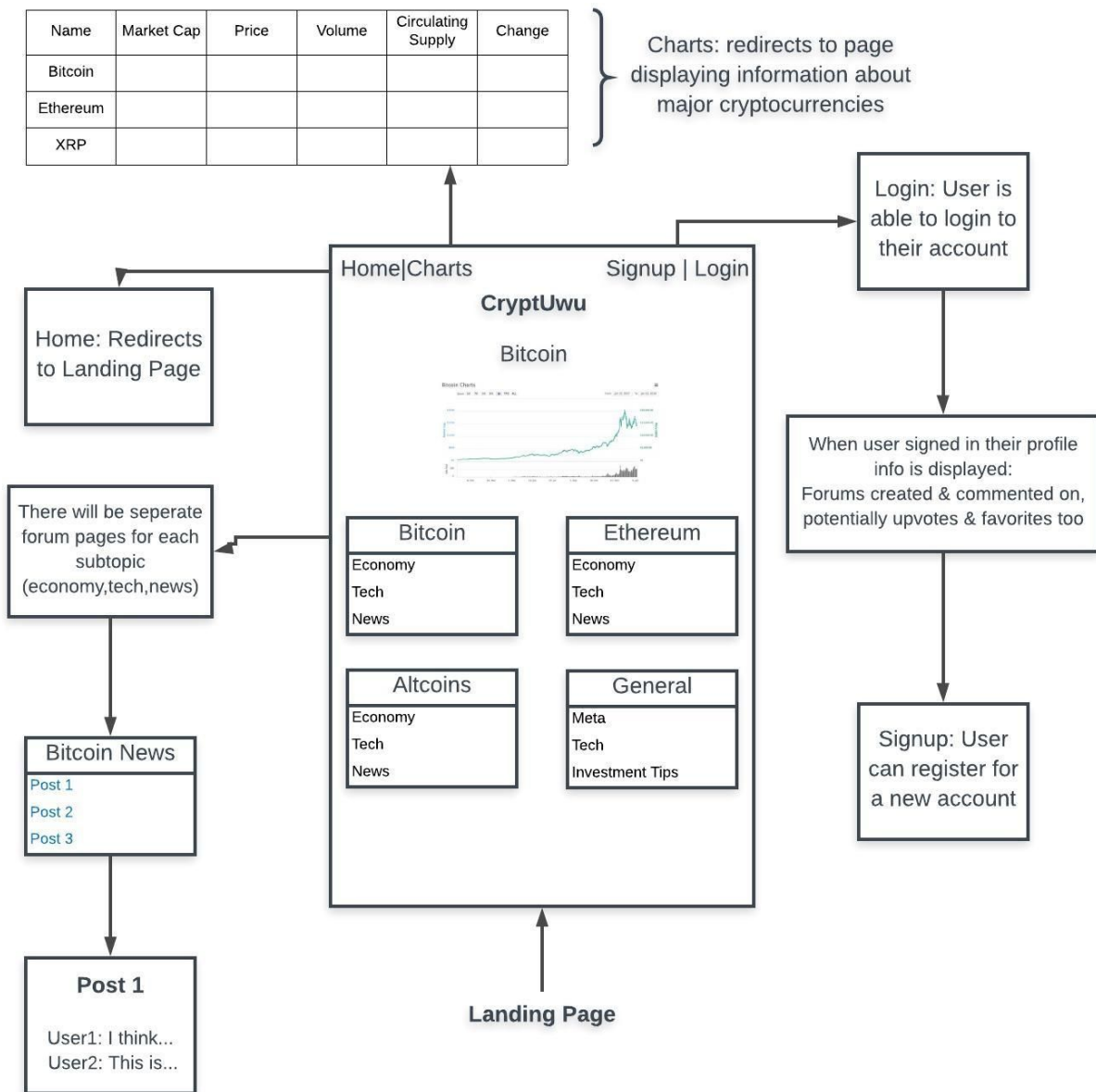
addpost: adds a post, uses forum.py (redirect: forum)

chart: loads charts.html, uses crypto.py

Component Map:



Site Map:



Database Schema:

login

Username (String)	Hashed password (String)
"rpeci"	90281u3hojkasjsa

rpeci_threads (repeat for all users)

POST (string)	ID (int)
"I love bitconnect!"	1

rpeci_posts (repeat for all users)

POST (string)	ID (int)
"I still love bitconnect!"	2

rpeci_saved_coins (repeat for all users)

Coin (string)
Bitcoin

1 (will always be the thread id, repeat for all threads)

Post (string)	ID(int)	user(string)	Time-stamp (string)	Upvotes
"I love bitconnect!"	1	rpeci	2018-01-07:13:15	100

(contains the rest of the thread with each post getting a global number)

Threads (stores all the threads)

Topic (String)	ID(int)	Post(string)	user(string)
btc_news	1	"I love bitconnect!"	rpeci

Task Delegation:

Adil Gondal

- Setup login system using passlib to hash and salt passwords
- Oversee the project and make changes as necessary

Amit Narang

- Work on Landing Page and Charts page for website
- Work on CSS for web pages

Rubin Peci

- Utilize the Nomics API to get accurate crypto-market information to display to users
- Setup the database files
- Help with the backend for the forum, once done with the cryptocurrency API

Qian Zhou

- Work on setting up subpages for forums
- Work on CSS for web pages