

## **Team Nahasapeemapetilon -- The End**

SoftDev pd07

2019-01-07

### **Roles**

Adil Gondal - Prime Minister

Amit Narang - Chief Justice

Rubin Peci - Secretary of Defense

Qian Zhou - Secretary of State

## **CryptUwU - Cryptocurrency Forum**

### **Components:**

#### **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** (is name good?), 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? perhaps crypto.py to get that 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 w/ 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)

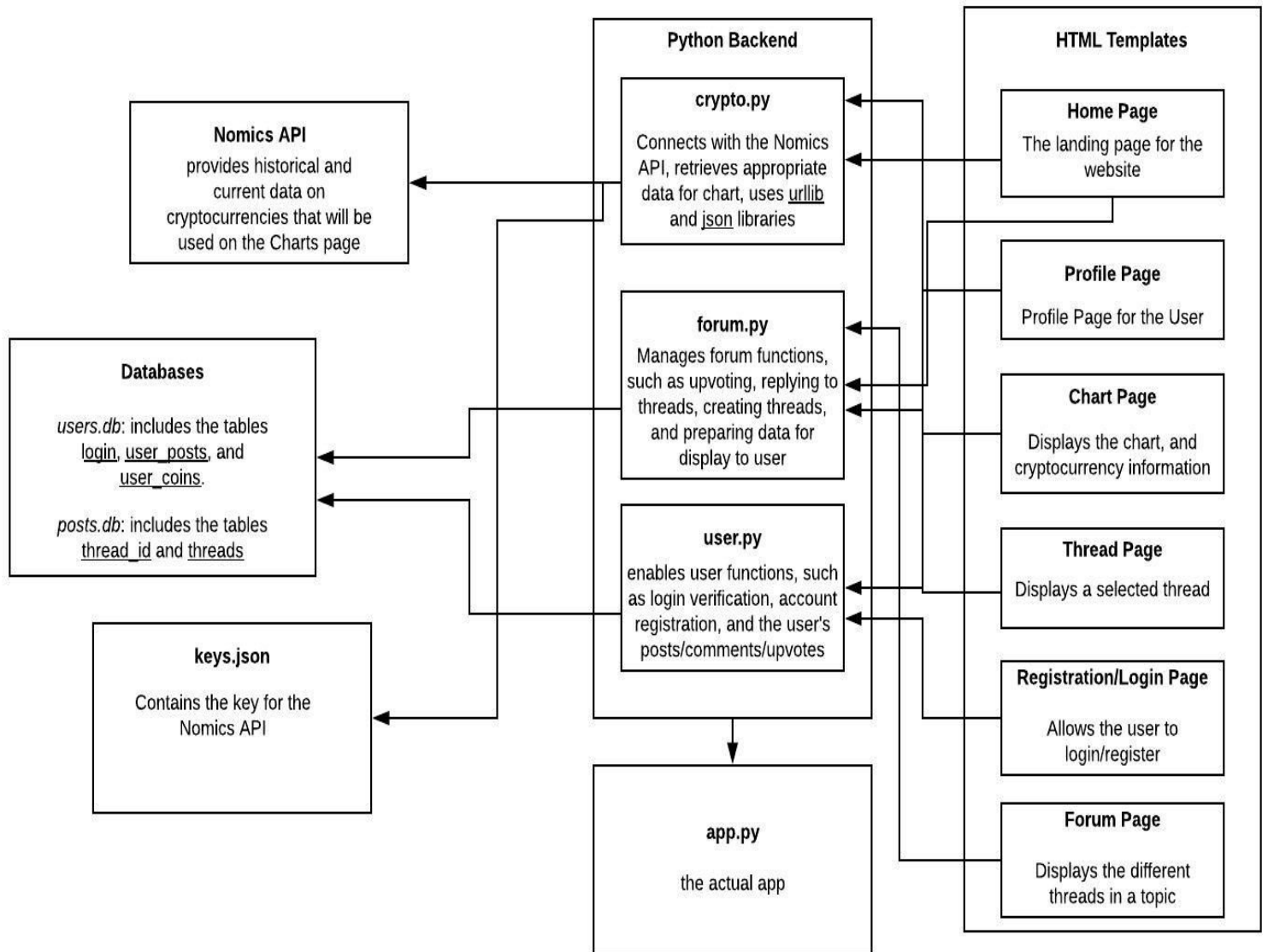
**forum**: loads forum.html, gets request (topic&subtopic), w/ forum.py

**thread**: loads thread.html, gets request (id), w/ forum.py

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

**chart**: loads charts.html, uses crypto.py

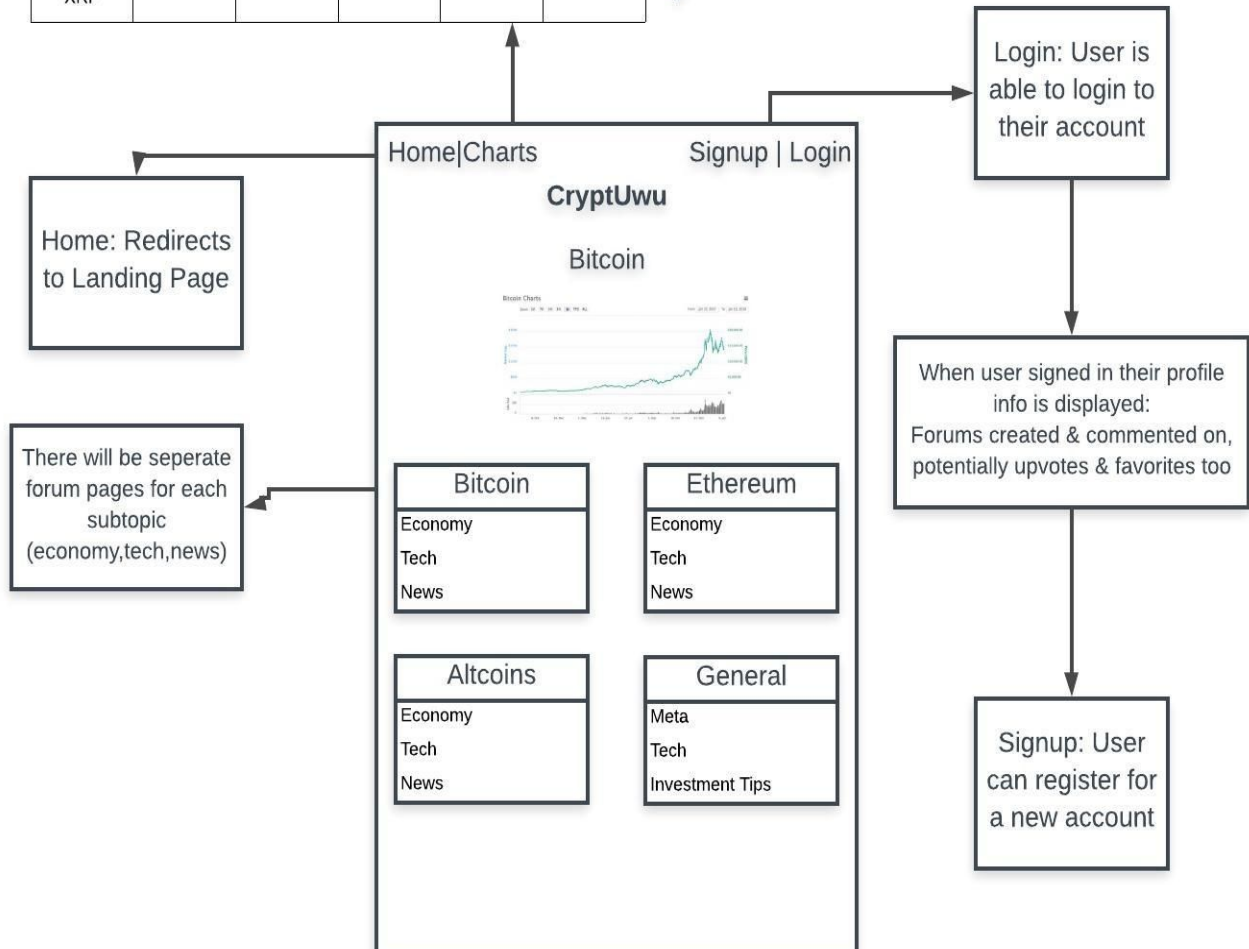
## Component Map:



## Site Map:

Name	Market Cap	Price	Volume	Circulating Supply	Change
Bitcoin					
Ethereum					
XRP					

Charts: redirects to page displaying information about major cryptocurrencies



## Database Schema:

### login

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

### rpeci\_posts (repeat for all users)

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

### 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 CSS and setting up the backend for the forum

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 CSS and setting up the backend for the forum