0 Project Title

An Online Web-Streaming Service for Bitcoin-Exchanges.

1 Progress

I have completed part of landing page for our program including left-side style layout and private account related functionalities. In the landing page, users could observe the dynamic data about fiat-cryptocurrency exchange and crypto-crypto currency exchange directly and clearly. The data are real-time changing. Furthermore, the users can get a private account in our system which will be leveraged for store transaction data from other exchange websites. It is a better method to collect competitor's data and attract more customers to use our website more frequently.

2 Deviation to Timeline

The first deviation of timeline is that we picked the overlay layout as our main menu, which is a little harder than the traditional design, then we spend more time on this part. The second deviation is that according to the requirement of assignments, "bitcoin stream", we changed what we focused on before in the whole project. Originally, the data we intend to exhibit in the website was collected from four exchange websites, however, we made a change on this part, some data will be recollected in the form of global data.

3 Obstacles

First of all, the main obstacles in this project are that it's hard to differentiate our web program with the other cryptocurrency exchange website. We need to study the structure of other website and think about how to make our functionalities different from other websites. Then, when we find out some sections in other websites, such as Binance and GDAX, we need to think about whether we have enough time to design and implement our designed functionalities. These two parts cost us a large volume of time.

Secondly, we decided to make a world map to show the real-time and dynamic exchange data all over the world. Even though the Bitnodes give us the source code to crawl the data seconds by seconds, the code is python programmed in the source code. Thus, if we use the same way as Bitnodes did, we need to spend lots of time to figure out the running mechanism in Bitnodes. We may finally quit on this job but to do it in a simpler way.

4 Milestones and Reporting

Week	Task	Status
1	Participate orientation and kick-off meeting	Completed.
2	Arrange a meeting with my team members.	Completed.
3	Group meeting and discussing how to do and what to do in the next stage on details of exchange website.	Completed.
4	I was preparing to writing individual and group proposal. Have a deeper discussion about the outline and technology we are going to use in the project.	Completed.
5	Finalized and submitted the all related documents about proposals.	Completed.
6	Start to identify how to implement the functionalities about storing private transaction data, layout for our website and dynamic exchanging data in world map.	Completed.
7	Working on user login, register modules.	Completed.
8	Working on how to get back the password when user forget the password.	In progress.
9	Woking on adjusting whole layout.	In progress.

10	Plan to work on implementing dynamic exchanging data and learn bitnodes.	In progress.
11	Plan to test all functionalities that will come out in our website.	Not started.
12	Plan to finalize the final presentation.	Not started.
13	Plan to finalize the final related reports.	Not started.

Table 1 Update of own time lines for completion

5 Contributions to our group

Slack is the main communication platform in the process doing our research and coding. We use it to talk much about the project details and feelings sometimes (As shown in Figure 1).

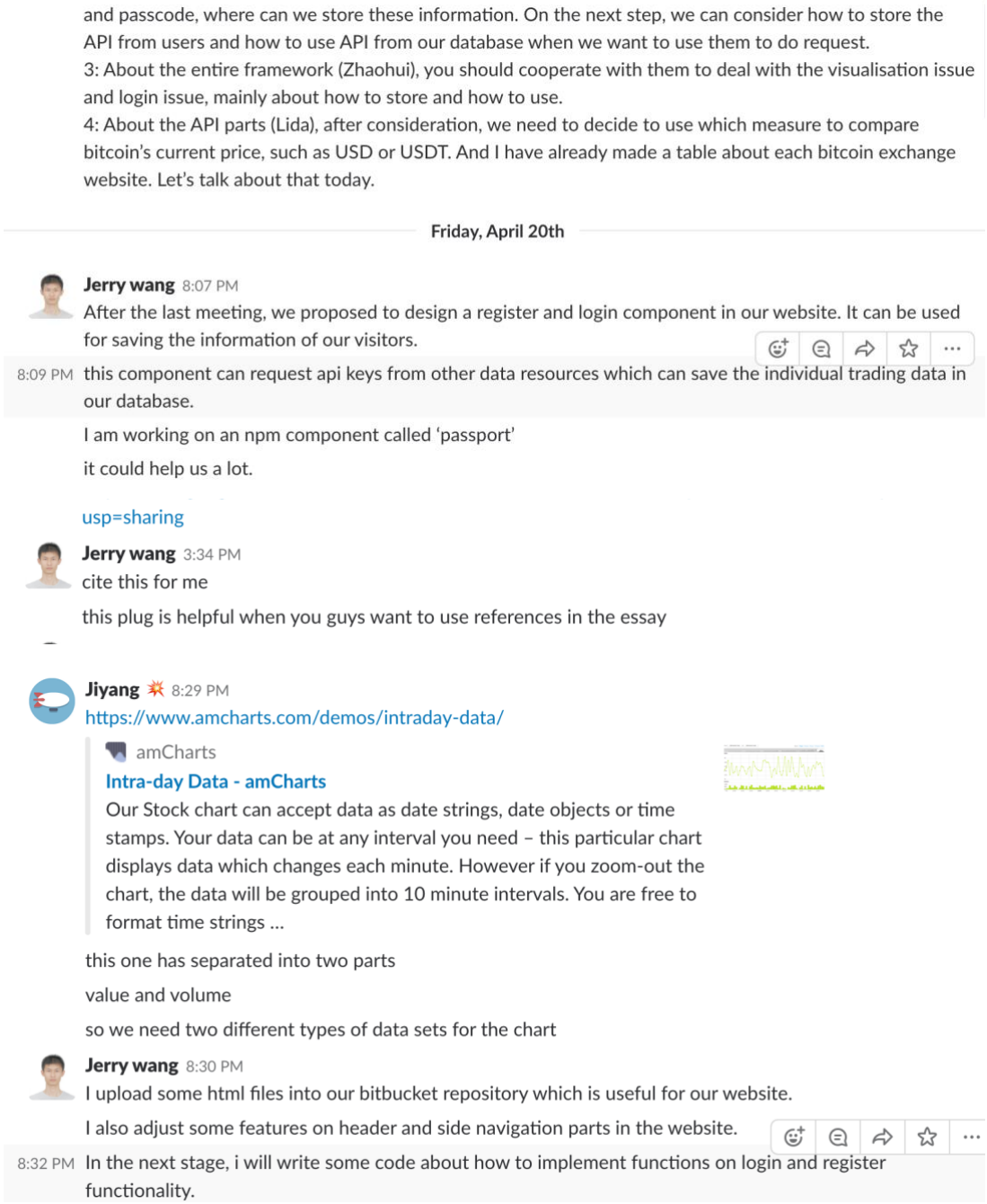

Figure 1 Parts of the records of discussing projects issues on slack.

Another platform we are using is Bitbucket and Gitkraken. The former is leveraged as a git repository which helps us to reserve our code easily. As shown in the figure 2, I have upload several

times in bibucket with many html files. Those of them will be modified later on. Moreover, I have to mention that GitKraken tool which is good at "git merge" operations. We have four members, when we want to merge our branches, we are confused about some conflicts. It gives us so much help on details of merging code.

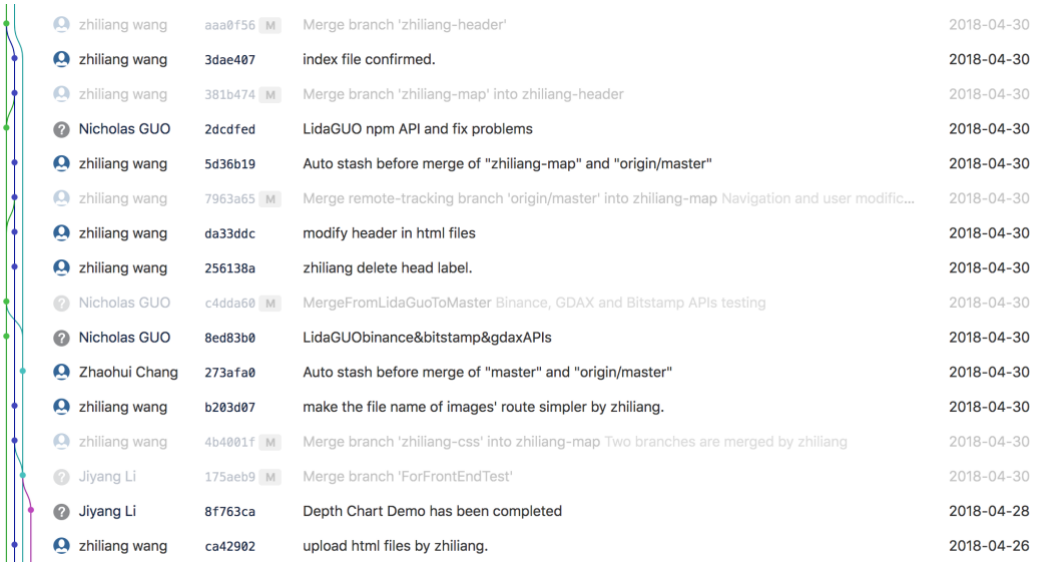

Figure 2 Parts of committing records on Bitbucket repository (zhiliang is me.)

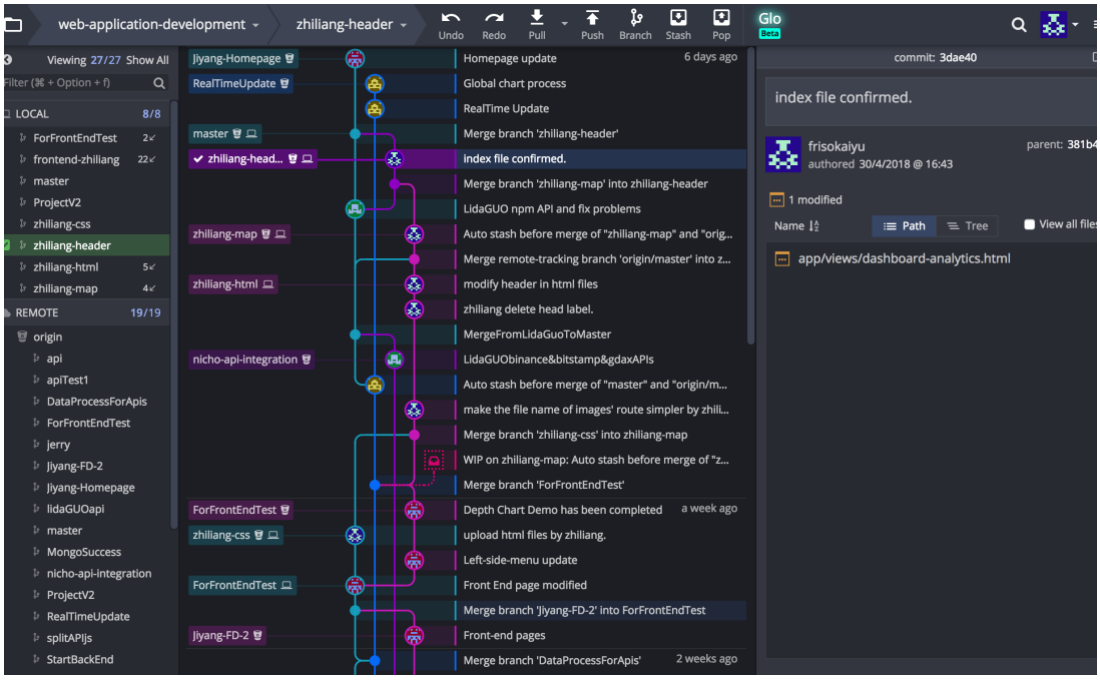

Figure 3 GitKraken interface.