**CS490**

**Blitz**

**Sprint 1 Retrospective Document**

Tianyang Yu, Jing Chang, Zhicheng Zhou, Yuying Wang, Hanchen Li, Dingzhe Li, Zheng(Arthur) Chen

**1. What went well?**

**General:**

1. As an user, I want to have a page to login or sign up.
   1. Server:
      1. Description: Provide API to enable login and sign up.
      2. Work time: 5 hrs
      3. Member: Hanchen Li

Complete: We first check the correctness of the password, and then return whether the user has been successfully logged in.

* 1. iOS:
     1. Description: Implementing user interface for login and sign up
     2. Work time: 10 hrs
     3. Member: Jing Chang

Complete: The transition between login and signup page works perfectly. Both pages are well connected to the server.

1. As an user, I would like to reset my password when I forget it.
2. Server:
   * 1. Description: Provide API to enable reset password
     2. Work time: 2 hrs
     3. Member: Dingzhe Li

Complete: The server is able to first send an email to the user’s mailbox, and users can change their password by using the link in the email.

* 1. iOS:
     1. Description: Implementing a reset page
     2. Work time: 5 hrs
     3. Member: Tianyang Yu

Complete: The transition between resetting and login page works great, and the reset password request can be sent to the server correctly.

1. As an user, I would like to choose from requesting or providing a service after I open the app.
   1. iOS:
      1. Description: Implementing a Role-selected page
      2. Work time: 3 hrs
      3. Member: Zhicheng Zhou

Complete: Services can be correctly showed up after selecting roles.

1. As an user, I would like to browse the requests by different categories.
2. Server:
   * 1. Description: Provide a API that can let client request for specified category
     2. Work time: 10 hrs
     3. Member: Yuying Wang

Complete: The server will take any search criteria, then search and return any post that matches.

1. As an user, I would like to select one from several service providers who respond to my request.
2. Server:
   1. Description: Implement candidate list
   2. Work time: 5 hrs
   3. Member: Yuying Wang
3. As an user, I would like to receive notification when my request get accepted.
   1. Server:
      1. Description: Implementing Push function
      2. Work time: 10 hrs
      3. Member: Yuying Wang
4. As an user, I want to close my request / service at anytime.
   1. Server:
      1. Description: Implementing post management API
      2. Work time: 5 hrs
      3. member: Hanchen Li
5. As an user, I want to check the satisfaction rating of service provider / requester.
   1. Server:
      1. Description: Implementing query for rating API
      2. Work time: 3 hrs
      3. Member: Yuying Wang
6. As an user, I would like to have a search box to search for certain request or service.
   1. Server:
      1. Description: Implementing search API
      2. Work time: 5 hrs
      3. member: Zheng Chen

Complete: The server will take some search criteria, then search and return any post that matches.

**User Profile:**

1. As an user, I would like to update my password.
   1. Server:
      1. Description: Add password function on User Page
      2. Work time: 1 hrs
      3. Member: Dingzhe Li

Complete: An email will be sent to the user’s mailbox, they can change their password by clicking the link.

* 1. IOS:
     1. Description: Add password changing field on user profile page
     2. Work time: 5 hrs
     3. Member: Tianyang Yu

Completed: Add a changing password field in the profile page, and it is well connected to the server.

1. As an user, I would like to see my profile, including avatar and nickname.
   1. Server:
      1. Description: Implementing User profile API
      2. Work time: 4 hrs
      3. Member: Zhicheng Zhou
2. As an user, I want to update my own information at anytime.
   1. Server:
      1. Description: Implementing User profile editing function
      2. Work time: 2 hrs
      3. Member: Dingzhe Li

Completed: The information will be correctly updated.

**Carpool**:

1. If there is no desired provided service, as a carpool requester, I would like to post a request including information such as pick up location, destination, time and number of passengers requesting.
   1. Server:
      1. Description: Implementing API for post function
      2. Work time: 5 hrs
      3. member: Yuying Wang

Complete: Server will take all the information of the post and store it into the MongoDB.

1. If there is no desired requested service, as a carpool provider, I would like to post a new service including information such as departure point, destination, time and number of passengers can hold.
   1. Server:
      1. Description: Implementing Post Function
      2. Work time: 3 hrs
      3. member: Dingzhe Li

Complete: Server will take the information needed for the provider, and store it into the database.

**Non-Functional Requirements:**

1. iOS developers need extra time for learning the language and IDE
   * 1. Description: Learn develop iOS app using SWIFT and Xcode.
     2. Work time: 20hrs
     3. Members: Tianyang Yu, Jing Chang, Zhicheng Zhou

Complete: Each member spends at least 10 hrs per week on swift and iOS learning.

1. The Server will be written in Node.js for the best concurrency performance. Data will be stored in MongoDB.
   1. Server
      1. Description: Design Server and implementing
      2. Work time: 40 hrs
      3. Member: Hanchen Li

Complete: We implement the server in Node.js and database is MongoDB

1. The Server should be able to handle five million connections simultaneously with no perceptible delay.
   1. Server
      1. Description: Optimize Server Functionality
      2. Work time: 5 hrs
      3. Member: Dingzhe Li

Complete: Our server is designed with high scale-ability.

1. The Server should not crash or lose data in any circumstances.
   1. Server
      1. Description: Design server crash-recover function
      2. Work time: 10 hrs
      3. Member: Dingzhe Li

Complete: We store our serive

1. All searching or listing should be done within one second under typical network condition.
   1. Server
      1. Description: Optimize Server structure
      2. Work time: 20 hrs
      3. member:Zheng Chen
2. In app chatting will be implemented on a separate chatting server which can deal with more than one million messages per second.
   1. Server
      1. Description: Implement chatting server
      2. Work time: 40 hrs
      3. Member: Yuying Wang

**2. What did not go well ?**

(a) Include general retrospective review for this sprint.

We have underestimated the learning curve on JS, mongoDB(server side) and swift(IOS side), which undermines the overall coding performance and efficiency, resulting in several components unfinished or without polished.

(b) Ensure to list ALL unsuccessful user stories and tasks with detailed discussions. (They should be in line with the Sprint Planning Document for the next sprint.)

1. As an user, I would like to chat with the service provider / service requester.
2. Server:
   * 1. Description: Implementing Chat function
     2. Work time: 20 hrs
     3. Member: Hanchen Li

In-Progress: Laid down the infrastructure but still half way before finish.

1. iOS:
   * 1. Description: Find API to support chat service and integrate with server
     2. Work time: 10 hrs
     3. Member: Zhicheng Zhou

In-Progress: In progress of looking for appropriate API services.

1. As an user, I would like to have a listview on services requested/provided nearby.

a. Server

1. Description: Return the list of posts that are close to current user.
2. Work time: 5 hrs
3. Member: Zheng Chen

In-Progress: Waiting for location data/GPS format to complete.

1. As an user, I would like to receive notification when I get message from other users.
2. iOS:
3. Description: Implementing Push receive
4. Work time: 5 hrs
5. Member: Jing Chang

In-Progress: Do not receive fund to registering Apple developer’s license to enable the remote notification API service.

1. As an user, I want to have some recommend services when I am trying to post similar request
   1. Server:
      1. Description: Implementing match function on the server side
      2. Work time: 10 hrs
      3. Member: Jing Chang

In-Progress: Designing algorithm for matching.

1. As an user, I would like to see my profile, including avatar and nickname.
   1. iOS:
      1. Description: Implementing Profile page
      2. Work time: 4 hrs
      3. Member: Jing Chang

In-Progress: Still investigating how to take photo or load photo from library in iOS.

1. As an user, I would like to see other people’s feedback scores.
   1. Server:
      1. Description: Implementing rating functions
      2. Work time: 5 hrs
      3. Member: Hanchen Li

In-Progress: User profile is completed but still working on the rating function to compute the rating.

* 1. IOS:
     1. Description: Implementing the rating UI
     2. Work time: 3 hrs
     3. Member: Zhicheng Zhou

In-Progress: Add the control into profile page, but is not connected to the server yet.

1. As a carpool provider/requester, I would like to initiate a chat with an existing service requester/provider by clicking the item.
   1. iOS:
      1. Description: Implementing Post page
      2. Work time: 10hrs
      3. member: Zhicheng Zhou

In-Progress: Wait for the chat API.

1. As an user, I want to update my own information at anytime.
   1. IOS:
      1. Description: Add profile changing field on user profile page.
      2. Work time: 10 hrs
      3. Member: Tianyang Yu

Mostly Completed: Finished building the front end control for the profile page, but is not connected to the server yet.

1. As an user, I would like to sort the services provided by time/location.
2. Server
   * 1. Description: Design a filter for Posts by time/ location
     2. Work time: 10 hrs
     3. Member: Dingzhe Li

In-Progress: Waiting for location data/GPS format to complete.

1. As an user, I want to give a feedback to provider/requester when the service is completed.
   1. Server:
      1. Description: Implementing API for leaving comment.
      2. Work time: 10 hrs
      3. member: Dingzhe Li

In-Progress: Still trying to integrate with the client.

1. As a carpool requester, I should be able to see a list of service provider who interested in providing the service, and the price they want.
   1. Server:
      1. Description: Implement API for returning a list of service provider.
      2. Work time:5 hrs
      3. Member: Yuying Wang

In-Progress: Trying to integrate with the client.

**3. How should you improve?**

(a) Mention at least two ways to improve your work in the next sprint and be as detailed as you can in 2-5 sentences.

One good and bad thing from Sprint1 was that we spend a lot of time on learning new technology, so we can minimize the time on learning but maximize the time on coding in Sprint 2. In addition, we will assign tasks in a more reasonable order so that tasks don't block each other. Also we will plan tasks accordingly rather than assigning tasks more than one can handle. The last but not the least, we will focus on core functionalities first to make sure we can get the most important part done.