

CS307 – Sprint2 Retrospective

Purdue Course Assistant

Team Members:

Chen Fang
Zhengshang Liu
Ransen Niu
Jiaping Qi
Ziqi Wang
Hao Xu

What went well?

Overall:

We completed full functionality of the server and database, established the communication between server and client in this sprint.

Our server is able to process all client requests and has already been connected to the database. Server is able to process the majority computation of entire program, such as: deciding course list according to tags, selecting course information with certain course name, changing courses' and users' information according to different request, etc. Our client is able to send request to the server to achieve the following functionalities: creating user, requesting user information, requesting course information, modifying user information, adding user comments, modifying rating information. And the client is able to receive and process corresponding server responds.

We met at lecture time every Tuesday and Thursday and held regular meetings every weekend.

Detail:

As a user, I would like to create an account	Estimate Time	Owner
Connect action with server and database.	10	Ziqi Wang
Implement the action function to send the user information newly submitted to server.	8	Ziqi Wang

Completed: Whenever client sends “createu” request, and server is able to verify the non-duplication of the user entity and is able to create entity for new user.

As a user, I would like to login and manage my account	Estimate Time	Owner
Connect login action with server and database.	10	Hao Xu
Implement the action function to send the username and password to server.	6	Jiaping Qi
Have server checked the correctness of information submitted for login.	9	Jiaping Qi

Completed: Login page is able to send login information back to the server, and the server could check the correctness of the user login information. Afterwards, the server would allow the user connected to his profile if the logging information is correct. Otherwise, it would show the error message.

As a user, I would like to view any information I added to my profile	Estimate Time	Owner
Connect view personal information action with server and database.	10	Hao Xu
Implement the function to deal with the information received from server to display user's information.	7	Hao Xu

Completed: Whenever MyInfoPageViewController sends “getuinf” request, the server is able to fetch corresponding user information from the database and write it back to client's stream.

MyInfoPageViewController is able to parse the string returned by the server and display user information in the correct format.

As a user, I would like to find my password or username back if I forget them. As a developer, I would like to reset user's password if user has request	Estimate Time	Owner
Send E-mail which include password resetting instruction.	10	Zhengshang Liu
Create function to reset password in database according to user's request.	8	Zhengshang Liu

Completed: The server is able to reset user's password, and send a new password email to the user.

As a user, I would like to have an organized user interface.	Estimate Time	Owner
User instance holds user's information as well as set and get functions.	10	Zhengshang Liu
User has authorization to modify his information.	6	Chen Fang

Completed: The user is able to update his profile in the Save Info view.

As a user, I would like to get recommendation courses based on courses history and interest.	Estimate Time	Owner
Create tags entities in the courses database and save the tags related to the courses.	5	Ransen Niu
Create function to receive the tag requirement and send the appropriate course.	7	Ransen Niu

Completed: The database could store the tags of courses . And the server is able to generate corresponding courses with received tags from the user.

As a user, I would like to view courses related to a tag.	Estimate Time	Owner
Create tags entities in the courses database and save the tags related to the courses.	5	Ransen Niu
Create function to receive the tag requirement and send users the related course.	12	Ransen Niu

Completed: The database could store the tags of courses. And the server is able to generate corresponding courses with received tags from the user.

As a user, I would like to take a pre-test for each courses and get feedback.	Estimated Time	Owner
Allow database to save the pre-test for each course.	12	Chen Fang
Create function to check user's answer and give feedback after pre-test	9	Ziqi Wang

Completed: The database is able to save the pretest information, and the server is able to return the pre-test based on user's request.

As a developer, I would like to manage user's account.	Estimate Time	Owner
Create function to modify information in database.	9	Jiaping Qi

Completed: The server has the function to update database.

As a developer, I would like to collect the rating for each courses from user.	Estimate Time	Owner
Create function to get the rating, update total rating and store in database.	9	Chen Fang
Create function to reply the request when the rating is needed	9	Ziqi Wang

Completed: The database is able to save the ratings for each course, and the server would update and return the rating of a specific course when required.

As a developer, I would like to organize the comments and tags.	Estimate Time	Owner
Create function to get the comment and tags, update tags' counts, and store in database.	10	Chen Fang

Completed: Whenever the client sends "add comment" and "set request", the server is able to modify the corresponding course entity in the database and update the comment and tag attributes accordingly.

As a developer, I would like to grade the user's pre-test.	Estimate Time	Owner
Create function to get the user answers and compare with correct answers and return a grade.	6	Chen Fang

Completed: The server has a function to compare user's answer with the correct answer and return a grade to the user.

As a user, I would like to get course information in a short time after sending the request. As a developer, I would like it to be easy to read the source code.	Estimate Time	Owner
Everyone would take certain time to comment and organize their code to make it efficient and understandable by others.	6	All members

Completed: All the code is well-commented and has an organized structure.

The server must be able to handle 50 requests at the same time.	Estimate Time	Owner
Enlarge queue capacity.	7	Jiaping Qi
Hold connection status while connection is unstable.	6	Ransen Niu
Show server busy notification on user interface while server is handling more than 50 connection.	10	Hao Xu

Completed: The server is well-connected to the database and the client.

What didn't go well?

Detail:

As a developer, I would like to delete user's account	Estimate Time	Owner
Create function to delete information in database	10	Chen Fang

Partly Completed: Developer can modify the user account information in database but we didn't finished the function of delete user's account.

As a user, I would like to get recommendation courses based on courses history and interest.	Estimate Time	Owner
Create tags entities in the courses database and save the tags related to the courses.	5	Ransen Niu
Create function to receive the tag requirement and send the appropriate course.	12	Ransen Niu

Partly Completed: Functions for updating courses tags in database were implemented. Tags marked by users are correctly saved in the database. Client side can correctly receive the tag information from server. However, the correctness displayed in the client cannot be guaranteed.

How should you improve?

In sprint 2, we can communicate between server and client fluently. However, our user interface is too simple comparing to our complex functionalities. Thus, in spring 3 we will focus on improving users' experience, including multiple backgrounds, understandable transactions, friendly icon images, etc.

In sprint 2, we used many existed interfaces in objective-c to implement our functionalities. Moreover, we need to get more familiar with objective-c API in order not to write redundant functions. Since programming on ios is a new field for all of us, we will improve ourselves as much as possible.