

CS307 – Sprint2 Planning Document

Purdue Course Assistant

Team Members:

Chen Fang

Zhengshang Liu

Ransen Niu

Jiaping Qi

Ziqi Wang

Hao Xu

Sprint Overview

Goals:

Last sprint we finished the UI design and made a server which is able to deal with basic operations. In this sprint, we will implement the server in C++ to manage the requests and the information, connect it to the User Interfaces and implement a database which contains course information, like course tags, user comment and pretest questions, and user information like username, e-mail address, nickname and user's course information. Also, we will connect the server to both client and database, and handles request from clients.

Scrum leader:

Zhengshang Liu

Meeting Schedule:

We plan to meet at lecture time(3:00pm – 4:15pm) every Tuesday and Thursday. We will also hold a regular meeting every weekend and the time is vary depending on our members' schedule. During the meetings, we will discuss each member's progress, address and solve technical questions

Challenges for this sprint:

- Most of us don't have experience to write a server before, so we are going to learn how to write a server and connect it to client and database. The learning process may take some attention.
- The program requires lots of data information, like course information and professor information. The information gathering is going to be a big challenge. So firstly, we would try to ask for access to the university database, and if this is not possible, we are going to gather information by ourselves, which may induce the limited information in the program.
- Since the information required by user interface varies, our server should be strong enough to deal with all kinds of information requests.

Current Sprint Detail

Functional:

As a user, I would like to create an account

Connect action with server and database.

Implement the action function to send the user information newly submitted to server.

Estimate Time

10

8

Owner

Ziqi Wang

Ziqi Wang

As a user, I would like to login and manage my account

Connect login action with server and database.

Implement the action function to send the username and password to server.

Have server checked the correctness of information submitted for login.

Estimate Time

10

6

9

Owner

Hao Xu

Jiaping Qi

Jiaping Qi

As a user, I would like to view any information I added to my profile

Connect view personal information action with server and database.

Implement the function to deal with the information received from server to display user's information.

Estimate Time

10

7

Owner

Hao Xu

Hao Xu

As a user, I would like to view any information I added to my profile.

Create User profile page which receives and display user information.

Link the current page to another related page.

Estimate Time

10

6

Owner

Jiaping Qi

Zhengshang Liu

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.

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

As a user, I would like to have an organized user interface.

User instance holds user's information as well as set and get functions.

User has authorization to modify his information.

Estimate Time	Owner
10	Zhengshang Liu
6	Chen Fang

As a user, I would like to get recommendation courses based on courses history and interest.

Create tags entities in the courses database and save the tags related to the courses.

Create function to receive the tag requirement and send the appropriate course.

Estimate Time	Owner
5	Ransen Niu
7	Ransen Niu

As a user, I would like to view courses related to a tag.

Create tags entities in the courses database and save the tags related to the courses.

Create function to receive the tag requirement and send users the related course.

Estimate Time	Owner
5	Ransen Niu
12	Ransen Niu

As a user, I would like to take a pre-test for each courses and get feedback.

Allow database to save the pre-test for each course.

Create function to check the user's answer and give feedback after pre-test.

Estimate Time	Owner
12	Chen Fang
9	Ziqi Wang

As a developer, I would like to manage user's account.	Estimate Time	Owner
Create function to modify information in database.	9	Jiaping Qi
As a developer, I would like to delete user's account	Estimate Time	Owner
Create function to delete information in database.	10	Chen Fang
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
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
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

Non-Functional:

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

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

* For every new function, we include the testing time which is equal to the developing time.

Hours per person:

Chen Fang: 47

Zhengshang Liu: 40

Ransen Niu: 41

Jiaping Qi: 47

Ziqi Wang: 42

Hao Xu: 43

Total estimate hours: 260

Remaining Backlog

Functional:

- As a user, I would like to check the official information of professors.
- As a user, I would like to view all professors information who have taught a course before.
- As a user, I would like to receive E-mail notifications.
- As a user, I would like to view the capacity of a course. (If time allows)
- As a developer, I would like to set different default language. (If time allows)

Non-functional:

- Be able to connect with MyPurdue System.(If time allows)
- As a developer, I would like to have a readable API.