Iteration Plan

Guidelines:

- A feature is completed when it is tested by another member and merged to main repository.

- Time for each task is the expected time for accomplishing the task.

- The plan is subject to change according to actual coding progress.

Estimating Time To Complete the task:

- Best case: 10 hours/week, a person; total 40 hours/week, 4 people in a group

- Worst case: 20 hours/week, a person; total 80 hours/week, 4 people in a group

- Average case: 15 hours/week, a person; total 60 hours/week, 4 people in a group

First Iteration:

First week: (Mar 19 - Mar 23)

Total estimating time: 40 – 80 hour

Task		EST Time by hrs (best - worst)
Task1: Application server to handle requests/responds	Jun	5 – 10
1 Creates node.js application server		1 - 2
2 Creates logger to log all behavior/actions of app server		1 - 2
3 Creates simple template engine for rendering HTML page		3 – 6
Task2: GUI common layout and HTML template	Jun	4 – 8
1 Creates GUI common layout (such as containers, menu, tabs, …)		2 - 4
2 Creates HTML template		2 – 4
Task3: GUI layout for discussion space, instant messaging space and HTML template	Brennan	7 – 14
1 Creates GUI layout for discussion space (buttons, input box, …)		3 – 6
2 Creates GUI layout for instant messaging (buttons, input box, ….)		2 – 4

3	Creates HTML template for discussion space and instant messaging space		2 – 4
Task4: Create basic HTML index pages, login form		Faraz	3 - 6
1	Creates static index page and login form		1 – 2
2	Creates home web page for authorized users		1 – 2
3	Creates schedule web page for authorized users		1 – 2
Task5: Database access modules		Akio	8 – 16
1	Creates a database access module to create/update/modify/searching data collection (table)		4 – 8
2	Creates a database access module to insert/update/modify/delete data from data collection		4 – 8
Task6: Implement basic functionality of discussion space		Faraz	7 - 14
1	Implements functionality to create topics/questions		2 – 4
2	Implement functionality to post comments for created topics/questions		2 - 4
3	Implement functionality to display comments, questions, and topics		2 – 4
4	Implement functionality for self regulation		1 – 2
Task7: Integrate all components which are done in first week		Brennan	2 – 4
Task8: Peer code review		All member	4 – 8

Second week: (Mar 26 - Mar 30)

Total estimating time: 40 – 80 hours

Task		EST Time by hrs (best – worst)
Task1: Implement functionality for instant messaging	Faraz	7 – 14
1 Implements functionality to send message to other user		2 – 4
2 Implements functionality to receive message from online user		2 – 4
3 Implements functionality to display high priority message/latest message,		3 – 6
Task2: Implement simple functionality for system administrator	Akio	8 – 16
1 Implements functionality to create/modify/update/delete user profile		4 – 8
2 Implements functionality to create/modify/update/delete user profile according to users' request		4 – 8
Task3: Implement simple functionality for scheduling	Brennan	7 – 14
1 Implements functionality to create schedule		2 – 4
2 Implements functionality to modify/update schedule		3 – 6
3 Implements functionality to delete schedule		2 – 4
Tak4: Implement functionality for searching (by key word)	Jun	6 – 12
1 Implements functionality to search posted topics from discussion space		2 – 4
2 Implements functionality to search posted question from discussion space		2 – 4
3 Implements functionality to search instant message		2 – 4
Task5: Integrate and test all components are done in first 2 weeks	Jun	2 – 4
Task6: Peer code review for all tasks finished in first 2 weeks	All members	10 - 20

Third week: (April 2 - April 10)

Total estimating time 56 – 112 hours

Task		EST Time by hrs (best – worst)
Task1: Implement functionalities for uploading/downloading/searching media and user login		12 – 20
1 Implements functionality to upload media	Jun	2 – 4
2 Implements functionality to download media	Jun	2 – 4
3 Implements functionality to search media (key-word searching)	Akio	2 – 4
4 Implements functionality to let user login system	Jun	2 – 4
Task2: Integrates all components done in 3 weeks and integration test	Faraz, Brennan	7 – 14
Task3: Test each feature of the system and code review		32 – 64
1 Test/debug discussion space feature	Akio	8 – 16
2 Test/debug instant messaging feature	Faraz	8 – 16
3 Test/debug instant scheduling feature	Brennan	8 – 16
4 Test/debug searching feature	Akio	8 – 16
Task4: Deploy the system on csc server	Jun	5 – 10

Summary of the first iteration

Total estimating time for best case: 136 hours

Total estimating time for worst case: 272 hours

Total estimating time for average: 204 hours from March 19 to April 10