



PURDUECLASS

Sprint 2 Planning Document

Team 35

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Sprint Overview

In the second sprint, we hope our application could work on most page and the notification function could work perfectly for all users. Also, we hope we could find a way to use blackboard login in on our application. In addition, we hope our user profile could have more function at profile page.

Scrum Master: Qifeng Chen

Meeting Plan: Tuesday/Thursday 4:30pm

Risks and Challenges:

We need to research a way to login in blackboard on the swift platform and keep signed in on the phone. Also, we need to keep track the homework on the blackboard. Those are the primary problems we may facing on the sprint 2.

Current Sprint Detail

User Story #1

As a user, I would able to see my profile page.

| # | Description | Estimated Time | Owner |
|---|---|----------------|----------|
| 1 | User could jump to the profile at home page | 1 Hrs | Shunqiao |
| 2 | User could see the current username at profile page | 1 Hrs | Shunqiao |
| 3 | User could see the change password at profile page | 1 Hrs | Shunqiao |
| 4 | User could log out from the profile page | 2 Hrs | Qifeng |
| 5 | User could have forget current password button | 2 Hrs | Qifeng |
| 6 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

Acceptance Criteria:

1. User could jump to the profile page on home page
2. User could jump to the profile page on class information page
3. User could jump to the profile page on Homework page
4. User could see the username on profile page
5. User could change password on profile page
6. User could know the current password by answer the current answer
7. User could log out from profile page
8. User could easily get familiar with the layout and interact with elements

User Story #2

As a user, I would able to see my home page.

| # | Description | Estimated Time | Owner |
|---|-------------|----------------|-------|
|---|-------------|----------------|-------|

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|---|--|-------|--------|
| 1 | User could jump to the home page at any page | 1 Hrs | Qifeng |
| 2 | User could see the recent homework due on home page | 4 Hrs | Qifeng |
| 3 | User could see the current schedule on home page | 4 Hrs | Qifeng |
| 4 | User could tap the homework and direct to the homework page | 2 Hrs | Qifeng |
| 5 | User could tap the schedule and direct to the scheduler page if has course | 1 Hrs | Qifeng |
| 6 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

Acceptance Criteria:

1. User could jump to the home page at class information page
2. User could jump to the home page at profile page
3. User could jump to the home page at homework page
4. User could jump to the home page at scheduler page
5. User could see the recent homework due on home page
6. User could tap the homework and direct to the home page
7. User could tap the schedule and direct to the scheduler page
8. User could easily get familiar with the layout and interact with elements

User Story #3

As a user, I would like to add and delete course to the schedule.

| # | Description | Estimated Time | Owner |
|---|--|----------------|--------|
| 1 | Create a “add course” button that can pass the course information to the | 3 Hrs | Juanda |

| | | | |
|---|---|-------|--------|
| | schedule page | | |
| 2 | Create a “delete course” button that can remove the course information from the schedule page | 3 Hrs | Juanda |
| 3 | Write an algorithm to connect the buttons and schedule | 3 Hrs | Juanda |

Acceptance Criteria:

1. Given the “add course” button is correctly implemented, user can add courses that have spaces available to the schedule.
2. Given the “delete course” button is correctly implemented, user can remove courses when they search/review courses that are already in the schedule.
3. Given the algorithm, which connects the buttons and the schedule UI, correctly implemented, the schedule will be updated after the buttons are pressed and button correctly indicate if a course can be added or removed.

User Story #4

As a user, I would like to see course information in the schedule page.

| # | Description | Estimated Time | Owner |
|---|--|----------------|--------|
| 1 | Create a table view in the schedule page that present the courses in a schedule format | 6 Hrs | Juanda |
| 2 | Create the course blocks that can synchronize the added course to the schedule | 6 Hrs | Juanda |
| 3 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

1. Given the table view is correctly implemented, when goes to the schedule page, the schedule template should locate at the center of the page
2. Given the course blocks is correctly implemented, when added a new course, there should be a new course block created.
4. Given the course blocks is correctly implemented, when delete a new course, the matched course block should disappear.
5. User could easily get familiar with the layout and interact with elements

User Story #5

As a user, I would like to see detailed course information by touching the thumbnails in the schedule and switch course sections by touching the thumbnails.

| # | Description | Estimated Time | Owner |
|---|--|----------------|----------|
| 1 | Create functions to the course blocks that display pop up window when touched. | 4 Hrs | Shunqiao |
| 2 | Create a popup window that display the detail information of the course | 4 Hrs | Shunqiao |
| 3 | Create a “delete course” that allows user to delete this course on the schedule. | 4 Hrs | Shunqiao |
| 4 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

Acceptance Criteria:

1. Given the course blocks are correctly implemented, when click on the course block, there should be a pop up window that display the detail information of the course.
2. Given the “delete course” button is correctly implemented, when click on the button, the pop up window should disappear and the course block should disappear.
3. User could easily get familiar with the layout and interact with elements

User Story #6

As a user, I would like to be able to save the schedule in the app, edit later, and save the schedule into my photo collections.

| # | Description | Estimated Time | Owner |
|---|--|----------------|----------|
| 1 | Save the added course information as the local variable that store in the app automatically. | 4 Hrs | Shunqiao |
| 2 | The variable is editable and the app will save the updated information locally. | 4 Hrs | Shunqiao |
| 3 | Create “save” button that allows user to save the overview of the schedule to the local photo collections. | 4 Hrs | Shunqiao |
| 4 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

Acceptance Criteria:

1. Given the course save locally is correctly implemented, when user terminate the app and open the app again, goes to the schedule page, all the courses the added before should display in the schedule table view.
2. Given the course save locally is correctly implemented, when user terminate the app and open the app again, goes to the schedule page, they should be able to edit the course blocks.
3. Given the “save” button is correctly implemented, when click on that button, goes to the local photo collection, the overview of the schedule should be saved there.
4. User could easily get familiar with the layout and interact with elements

User Story #7

As a user, I would like to be able to export the schedule to the iOS or google calendar.

| # | Description | Estimated Time | Owner |
|---|-------------|----------------|-------|
|---|-------------|----------------|-------|

| | | | |
|---|---|-------|----------|
| 1 | Create a “export” button that invoke a popup window | 1 Hrs | Shunqiao |
| 2 | Create a popup window that display the choice of destination calendar | 2 Hrs | Shunqiao |
| 3 | Create a popup window that allows user to input the authority information that needed to export to the calendar | 2 Hrs | Shunqiao |
| 4 | Create a “confirm” button to export all the courses on the schedule to the destinate calendar | 5 Hrs | Shunqiao |
| 5 | User could interact with a friendly and nice looking UI | 2 Hrs | Dayu |

Acceptance Criteria:

1. Given the export button is correctly implemented, when click on the export button, the pop up window should display
2. Given the popup window is correctly implemented, it should display the choice of destination calendar in a button format.
3. Given the button is correctly implemented, when click on the button, there should be a popup window that ask for the authority information that needed to export to the calendar
4. Given the “confirm” button is correctly implemented, when click on the confirm button, the content of the course should be export to the destination calendar.
5. User could easily get familiar with the layout and interact with elements

User Story #8

As a user, I would like to be able to log in Blackboard.

| # | Description | Estimated Time | Owner |
|---|------------------------|----------------|--------|
| 1 | Create two text fields | 2 Hrs | Qifeng |

| | | | |
|---|---|-------|--------|
| 2 | Create a confirm button | 1 Hrs | Qifeng |
| 3 | Link the confirm button to blackboard | 5 Hrs | Qifeng |
| 4 | Import current classes and homework information from blackboard after the button is pressed | 5 Hrs | Qifeng |

Acceptance Criteria:

1. Given the two text fields correctly implemented, the user can put in username and password.
2. Given the confirm button correctly implemented, the correctness of username and password will be checked.
3. Given the algorithm that linking the button and blackboard correctly implemented, PurdueClass will obtain all the class information and homework information.
4. Given the current classes and homework correctly imported, PurdueClass will store them locally and update them every hour.

User Story #9

As a user, I would like to see all current homework.

| # | Description | Estimated Time | Owner |
|---|--|----------------|---------|
| 1 | Create a table view with each homework in a cell | 4 Hrs | Xinmeng |
| 2 | Sort the list in chronological order | 3 Hrs | Xinmeng |
| 3 | Create texts in each cell to display description of homework | 2 Hrs | Xinmeng |

Acceptance Criteria:

1. Given the table view correctly implemented, the user will a list of homework with brief description and due date.

2. Given the algorithm of sorting homeworks correctly implemented, the user will see the most current homework in the top cell followed by other homeworks which are due later in a chronological order.
3. Given the texts of cells correctly implemented, the user can see brief description of homework.

User Story #10

As a user, I would like to see the past homeworks.

| # | Description | Estimated Time | Owner |
|---|--|----------------|---------|
| 1 | Create a table view with each homework in a cell | 4 Hrs | Xinmeng |
| 2 | Make this table view visible when scrolling up homework page | 2 Hrs | Xinmeng |
| 3 | Sort the list in chronological order | 3 Hrs | Xinmeng |

Acceptance Criteria:

1. Given the table view correctly implemented, the user will a list of homework with brief description and due date.
2. Given the setting of visibility of table view correctly implemented, the user can only see the past homework if the scene is scrolled up.
3. Given the algorithm of sorting homeworks correctly implemented, the user will see the most recent past homework in the bottom cell with all other homeworks which are due later in a chronological order on the top.

User Story #11

As a user, I would like to export events to apple calendar.

| # | Description | Estimated Time | Owner |
|---|-------------------------------------|----------------|---------|
| 1 | Create button "export" | 2 Hrs | Xinmeng |
| 2 | Create a dialogue to confirm export | 2 Hrs | Xinmeng |

| | | | |
|---|---|-------|---------|
| 3 | Add events in PurdueClass to calendar after the button is clicked | 8 Hrs | Xinmeng |
|---|---|-------|---------|

Acceptance Criteria:

1. Given the button “export” correctly implemented, the user will get a message that if the events are added successfully.
2. Given the dialogue correctly implemented, the user can confirm or cancel exporting homework schedule to calendar.
3. Given the io stream well connected between PurdueClass and calendar, the user can view all the homework events in calendar.

User Story #12

As a user, I would like to get notice when a due date is approaching.

| # | Description | Estimated Time | Owner |
|---|---|----------------|-------------------|
| 1 | Create notification-enable button | 2 Hrs | Xinmeng, Shunqiao |
| 2 | Pop a window and ask for consent if notification is allowed | 8 Hrs | Xinmeng, Shunqiao |
| 3 | Notice the user with brief message of the homework | 6 Hrs | Xinmeng, Shunqiao |

Acceptance Criteria:

1. Given the notification-enable button correctly implemented, the user can enable notification for a homework.
2. Given the pop window correctly implemented, the settings of Purdue in notification center change so that PurdueClass can send notification.
3. Given the algorithm of sending notification correctly implemented, the user can see brief message and due date of homework in the notification message.

User Story #13

As a user, I would like to add homework manually.

| # | Description | Estimated Time | Owner |
|---|---|----------------|---------|
| 1 | Create a “add” button | 2 Hrs | Xinmeng |
| 2 | Pop a window with textfield and data scroller | 8 Hrs | Xinmeng |
| 3 | Create a confirm button | 2 Hrs | Xinmeng |
| 4 | Insert a new cell in table view | 5 Hrs | Xinmeng |

Acceptance Criteria:

1. Given the add button correctly implemented, the user can see a pop window and manually add homework.
2. Given the pop window correctly implemented, the user can input description and due date of homework.
3. Given the confirm button correctly implemented, the user will be narrated back to homework page and see the updated list of homework.
4. Given the insertion of new cell in table view correctly implemented, the user will see the description and due date of the new homework that was inputted in the pop window.

Remaining Backlog:

Functional Requirement

1. User account

As a user,

- a. I would like to be able to auto log in to the application.
- b. I would like to be able to log in and log out of my account.
- c. I would like to register an account.
- d. I would like to have security questions as key factor to rest the password
- e. I would like to be able to reset password. (In the setting page)

2.Course information

As a user,

- a. I would like to be able to search class information via semester, department, course number, title, and professor.
- b. I would like to be able to get a sorted course information list based on my search filters.
- c. I would like to be able to get detailed course information including meeting time, course availability, number of students, course level and professor information.
- d. I would like to be noticed if there are spots available for specific sections.
- e. I would like to get the professor rating score and get the link to rate my professor website.
- f. I would like to be able to add a course to the schedule.

3.Course Schedule

As a user,

- a. I would like to see course information in the schedule.
- b. I would like to see detailed course information by touching the thumbnails in the schedule.
- c. I would like to be able to switch course sections by touching the thumbnails.
- d. I would like to be able to save the schedule into my photo collections.
- e. I would like to be able to save the schedule in the app and edit later.
- f. I would like to be able to export the schedule to the iOS or google calendar.

4.Homework

As a user,

- a. I would like to be able to synchronize homework information from Blackboard.
- b. I would like to be able to see all available homework posted on Blackboard, in the timeline format.
- c. I would like to be able to add or delete customized tasks.
- d. I would like to be able to add or delete homework.
- e. I would like to be able to mark the state of homework.
- f. I would like to be able to export homework information to the iOS or google calendar.
- g. I would like to be able to set up homework reminder in the timeline.

5.Home

As a user,

1. I would like to see three recent due on home page
2. I would able to see the calendar on home page
3. I would able to switch wot different page at home page

Non Functional Requirement

1.Performance

As a developer,

- a. I would like the iOS application to function without crashing.
- b. I would like all search results to be displayed in 5 seconds.
- c. I would like the application to be launched in 5 seconds.
- d. I would like the application to be responsive to all user requests.

2.Client

As a developer,

- a. I would like the application to run on iOS devices.

3.Server

As a developer,

- a. I would like the server to support real-time server-client communication.
- b. I would like the server to be able to store user data to the database.
- c. I would like the server to be able to handle a large number of users.

4.Appearance

As a developer,

- a. I would like the user interface to be aesthetically pleasing.
- b. I would like the user interface to be organized and user-friendly.

5.Security

As a developer,

- a. I would like to protect user account information in the database.
- b. I would like the server to deny non-authorized request.

6.Usability

As a developer,

- a. I would like the application to recover from misoperations.

7.Design

As a developer,

- a. I would like the application and the server to share a set of well-defined classes.