

## Iteration 2

### Group 12

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July 10, 2018

# Iteration Plan

## USER STORIES AND ACCEPTANCE TESTS

### User Story 8

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#### Story

<b>ID</b>	US:8 (N - 5 hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to click a button to view the professors profile
<b>So That</b>	I can check the information of professor

#### Acceptance Tests

<b>ID</b>	AT:8.1
<b>Given</b>	The app is in the “course information” page
<b>When</b>	A student tries to click the button for professor’s profile
<b>Then</b>	The student can see the professor’s information (office hours, etc.)

### User Story 9

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#### Story

<b>ID</b>	US:9 (N - 4hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to change my password
<b>So That</b>	I can change to new password I want

#### Acceptance Tests

<b>ID</b>	AT:9.1
<b>Given</b>	The app is in the “user’s profile” page
<b>When</b>	A student press “change password” button
<b>Then</b>	he can change password of his account

## User Story 10

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<b>ID</b>	US:10 (S - 6hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to register a new account
<b>So That</b>	I can create a new account

### Acceptance Tests

<b>ID</b>	AT:10.1
<b>Given</b>	The app displays the "Sign In" page
<b>When</b>	Student press "register" button
<b>Then</b>	the app display "Register Account" page

<b>ID</b>	AT:10.2
<b>Given</b>	The app displays "Register Account" page
<b>When</b>	Student finish filling the new email and password, then click" register "
<b>Then</b>	the app displays "Sign In" page and account is registered

## User Story 11

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### Story

<b>ID</b>	US:11 (S - 9hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to utilize a search bar on the offered course page
<b>So That</b>	I can ease the process of course selection

### Acceptance Tests

<b>ID</b>	AT:11.1
<b>Given</b>	The app is in the "offered courses" page
<b>When</b>	A student searches for a particular course
<b>Then</b>	The course shows up on after the student searches

<b>ID</b>	AT:11.2
<b>Given</b>	The app is in a particular course page
<b>When</b>	The student just searched for a particular course
<b>Then</b>	The student can search for another course

## User Story 12

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### Story

<b>ID</b>	US:12 (S - 6hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to click a button in schedule page
<b>So That</b>	I can view the offered course page to check courses

### Acceptance Tests

<b>ID</b>	AT:12.1
<b>Given</b>	The app is in the schedule page
<b>When</b>	A student wants to check out another course to register to
<b>Then</b>	The student can click on a button to go to the offered courses page

<b>ID</b>	AT:12.2
<b>Given</b>	The app is in offered courses page
<b>When</b>	A student clicked on the button to go to the offered courses page
<b>Then</b>	The student can see and register new courses he/she wants

## User Story 13

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<b>ID</b>	US:13 (S - 9hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to view the money cost of all courses in user profile page
<b>So That</b>	I can pay for the courses

### Acceptance Tests

<b>ID</b>	AT:13.1
<b>Given</b>	The app is in user's profile page
<b>When</b>	A student wants to check his/her tuition balance
<b>Then</b>	The student can click a button to show his/her balance

## User Story 14

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<b>ID</b>	US:14 (S - 9hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to get warning when the number of courses is over the required number of courses in single term
<b>So That</b>	I can stop registration

### Acceptance Tests

<b>ID</b>	AT:14.1
<b>Given</b>	The app is in the offered courses page
<b>When</b>	A student wants to register for more than required number of courses
<b>Then</b>	The app will issue a warning

## User Story 15

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<b>ID</b>	US:15 (C - 6hrs)
<b>As A</b>	Student
<b>I Want</b>	To be able to view how many spots left in a course
<b>So That</b>	I can see if I still can register this course

### Acceptance Tests

<b>ID</b>	AT:15.1
<b>Given</b>	The app is in the course information page
<b>When</b>	A Student wants to see if he/she can still register in a course
<b>Then</b>	The student can click a button to see how many spots left in a course

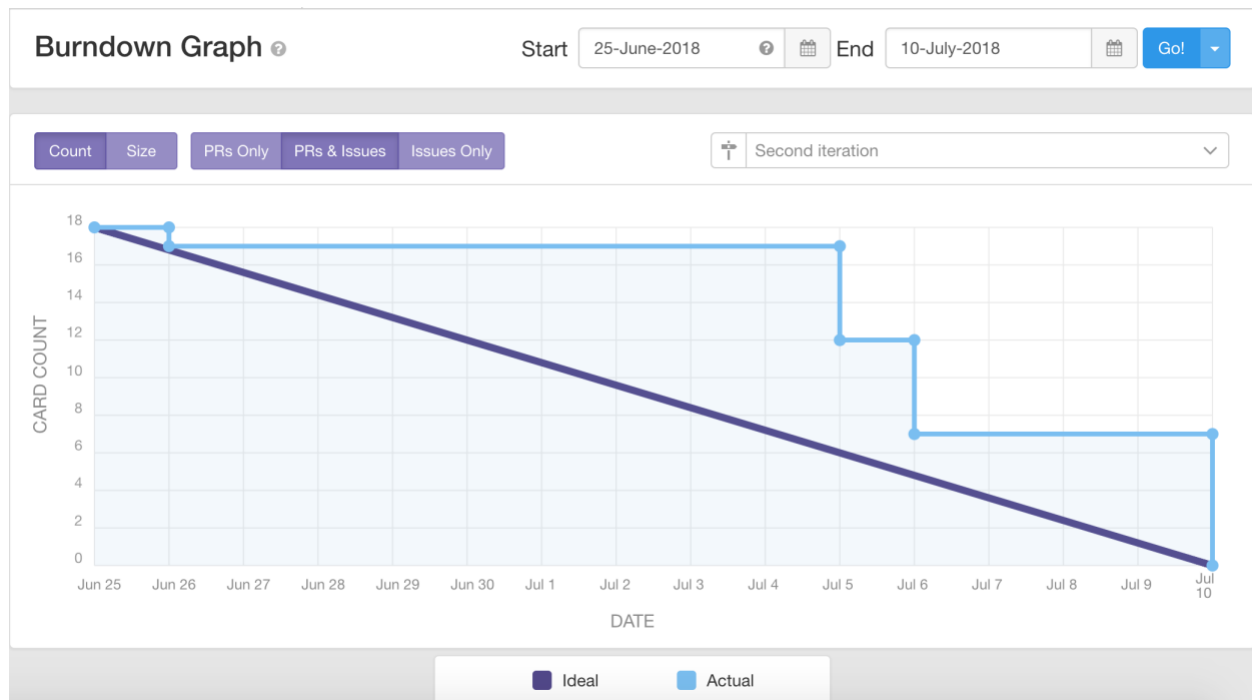
<b>ID</b>	AT:15.2
<b>Given</b>	The student wants to see how many spots are left in a course
<b>When</b>	The student clicked on a button to show available spots
<b>Then</b>	The app will display how many spots are left and how many students can still register in a course

# Tasks

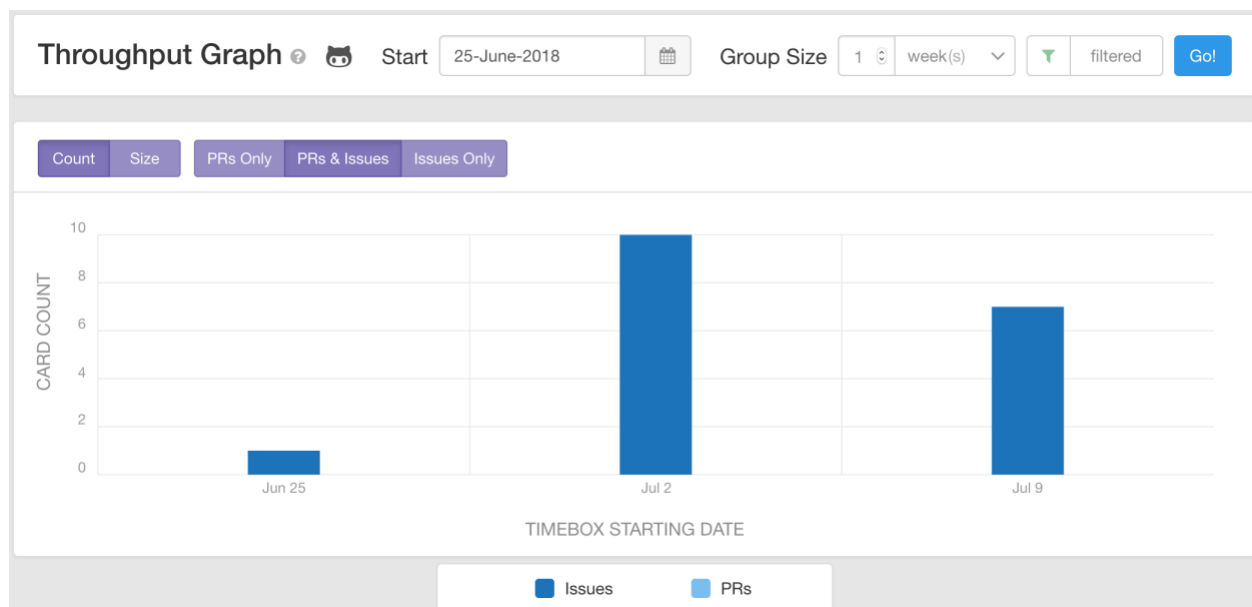
User Story	Task(s)	Estimate	Dev Pair	Start	Expected	Status
<b>US:8</b>	Create Unit Test for the professor's profile feature	5 hrs.	Chasteen Redondo and Jon Macdonald	June 25, 2018	July 5, 2018	FINISHED
<b>US:8</b>	Create a button that will show a professor's profile	5 hrs.	Chasteen Redondo and Jon Macdonald	June 25, 2018	July 5, 2018	FINISHED
<b>US:9</b>	Create Unit Test for changing Password	4 hrs.	Peter Chartier and Mao Zheng	June 25, 2018	June 26, 2018	FINISHED
<b>US:9</b>	Create the changing of password functionality	4 hrs.	Peter Chartier and Mao Zheng	June 25, 2018	July 5, 2018	FINISHED
<b>US:10</b>	Create Unit Test for Registering account	6 hrs.	Peter Chartier and Mao Zheng	June 25, 2018	July 6, 2018	FINISHED
<b>US:10</b>	Create the button to register account in sign in page	6 hrs.	Peter Chartier and Mao Zheng	June 25, 2018	July 3, 2018	FINISHED
<b>US:10</b>	Create Register Account page	6 hrs.	Peter Chartier and Mao Zheng	June 25, 2018	July 3, 2018	FINISHED
<b>US:11</b>	Create Unit Test for the search bar functionality	9 hrs.	Peter Chartier and Mao Zheng	June 27, 2018	July 6, 2018	FINISHED
<b>US:11</b>	Create a search bar to easily search for a course	9 hrs.	Peter Chartier and Mao Zheng	June 27, 2018	July 6, 2018	FINISHED

<b>US:12</b>	Create Unit test for button in schedule page that will go to the offered courses	6 hrs.	Chasteen Redondo and Jon Macdonald	June 28, 2018	July 6, 2018	FINISHED
<b>US:12</b>	Create button in schedule page that will go to the offered courses	6 hrs.	Chasteen Redondo and Jon Macdonald	June 28, 2018	July 9, 2018	FINISHED
<b>US:13</b>	Create Unit Test for the viewing of money costs	9 hrs.	Bin He and Xiaoze Xia	June 27, 2018	July 9, 2018	FINISHED
<b>US:13</b>	Create a feature to view money costs of all the courses	9 hrs.	Bin He and Xiaoze Xia	June 27, 2018	July 9, 2018	FINISHED
<b>US:14</b>	Create Unit Test for the warning user story	9 hrs.	Bin He and Xiaoze Xia	June 27, 2018	July 9, 2018	FINISHED
<b>US:14</b>	Create a feature to warn students when the number of courses he/she registered is over the required number of courses in single term	9 hrs.	Bin He and Xiaoze Xia	June 27, 2018	July 9, 2018	FINISHED
<b>US:15</b>	Create Unit Test for the viewing of how many spots are left in a course	6 hrs.	Peter Chartier and Mao Zheng	June 28, 2018	July 9, 2018	FINISHED
<b>US:15</b>	Create a functionality to view of how many spots are left in a specific course	6 hrs.	Peter Chartier and Mao Zheng	June 28, 2018	July 9, 2018	FINISHED
<b>US:8-15</b>	Create an Espresso Test that will go through all the functionality of the app	4 hrs.	Everyone	June 25, 2018	July 4, 2018	FINISHED

# Burndown Graph

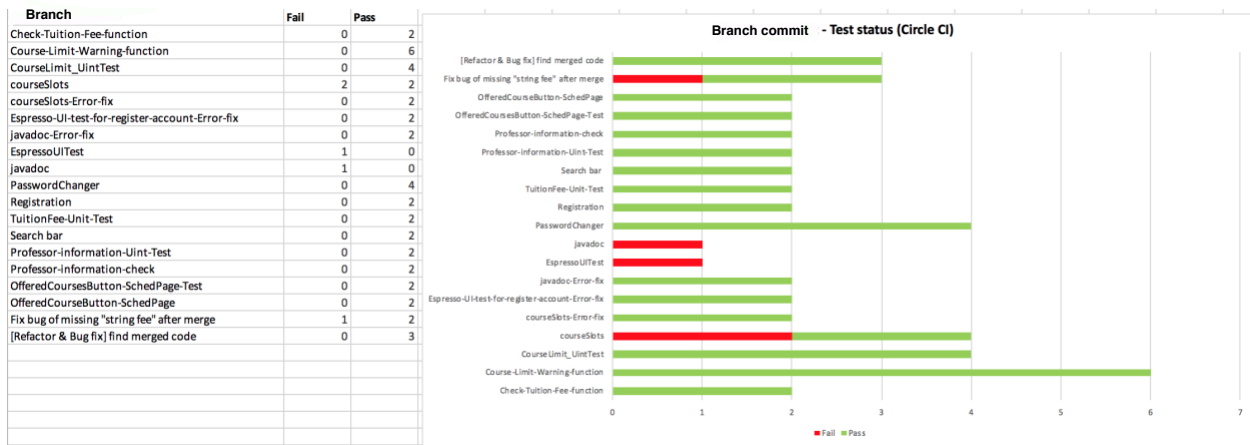


# Velocity Chart

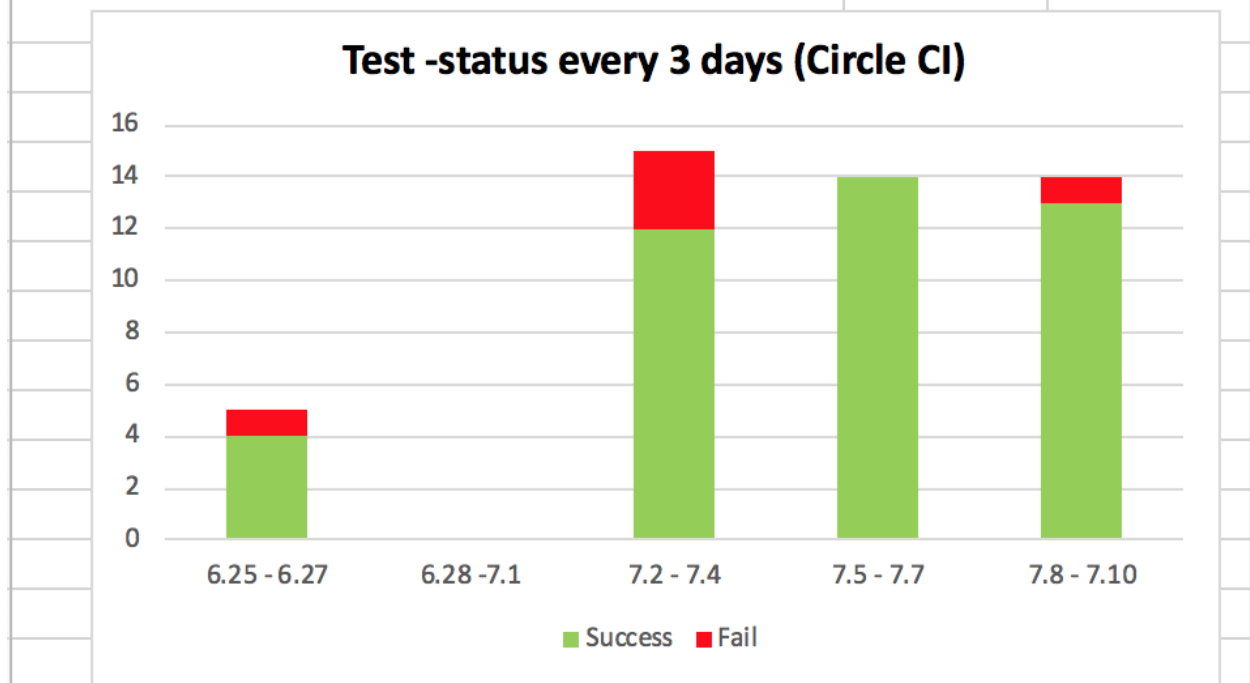




# Testing Graphs



Date	Success	Fail
6.25 - 6.27	4	1
6.28 - 7.1	0	0
7.2 - 7.4	12	3
7.5 - 7.7	14	0
7.8 - 7.10	13	1



# Standup Meeting Minutes

Stand Up Meeting for June 25, 2018

Attendance: Peter Chartier, Bin He, Chasteen Redondo, Mao Zheng, Xiaoze Xia

DONE:

Pair Programming:

- Jon/Chasteen
- Peter/Mao
- Bin/Xiaoze

TO DO:

- Finish Acceptance Tests Template
- Break down Acceptance Tests into smaller Tasks
- Start Assigning Tasks to pairs

Stand Up Meeting for June 27, 2018

Attendance: Peter Chartier, Chasteen Redondo, Mao Zheng, Xiaoze Xia

DONE:

Pair Programming:

- Jon/Chasteen – Professor's Profile, button on schedule page to go back to offered courses
- Peter/Mao – Register a new account, change password, how many spots left
- Bin/Xiaoze – warning when number of courses exceed the required courses, money cost

TO DO:

- Finish Acceptance Tests and breaking it down into smaller tasks
- Finish Assigning tasks to pairs
- Start putting tasks into Waffle
- Start Integration Tests

## Stand Up Meeting for July 4, 2018

Attendance: Peter Chartier, Chasteen Redondo, Mao Zheng, Xiaoze Xia

### DONE:

- Done with the Espresso Tests
- Done with breaking acceptance tests into smaller tasks
- Done with assigning tasks to pairs
- Done with putting tasks into waffle
- Tasks are all in-progress

### New Pair Programming:

- Mao/Chasteen – Professor's Profile, button on schedule page to go back to offered courses
- Peter/Xiaoze – Register a new account, change password, how many spots left
- Bin/Jon– warning when number of courses exceed the required courses, money cost

### TO DO:

- Finish tasks for new pairs
- Start Integration Tests

## Stand Up Meeting for July 9, 2018

Attendance: Chasteen Redondo, Mao Zheng, Xiaoze Xia, Bin He

### DONE:

#### Pair Programming:

- Mao/Chasteen – Done with Professor's Profile, and button on schedule page to go back to offered courses
- Peter/Xiaoze – Done with Register a new account, change password, and how many spots left
- Bin/Jon– Done with warning when number of courses exceed the required courses, money cost

### TO DO:

- Finish up the Iteration Report
- Post Mortem Review

# Post Mortem Review

## Issues with Development and Solutions

One of the biggest issue with our group was trying to manage the tasks in waffle. One of our group's programming pair commit the branches before the July 5th but we moved the task in waffle.io late, which explains the burndown graph and velocity chart. Another issue is again with the other member of the group. One of our groupmate did not show up for the meetings during the whole iteration. However, the rest of the group were still motivated to finish the iteration. Finally, another big issue we encountered during the second iteration is with issues and bugs. An example is when we made the registration and checking of schedule functionality, our application suddenly crashed. When we tried to find the cause of the problem we figured out that it was caused by missing non-null pointer check before implementing the array. Because of the missing non-null pointer check, our application tried to invoke the null value which caused the crash. We fixed this issue by adding null check such as *if(list != null)*.

## Goal for Upcoming Iteration

Our Goal for the upcoming iteration is to refactor codes that can still be refactored. Another goal of our group is to improve the user interface of our application to be more user-friendly. Also, we will try to fix existing bugs and testing issues in our application. Finally, we are planning to brainstorm what functionality we can add for the last iteration and then wrap everything up and also try putting everything together for the final demo and presentation.

Links:

Github Repository: <https://github.com/bn999286/CourseRegistration>

Circle-CI Repository: <https://circleci.com/gh/bn999286/CourseRegistration>