Ayush Bindal, John Brooks, Manoah Inje, Jalen Mann, Zhaorong Tu (Group 14)

Professor Xiangyu Zhang

CS 30700

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Grapevine Sprint Planning 1

Sprint Overview

Overview:

For our first sprint, we plan to establish a solid foundation for our project to build onto in future sprints. In this sprint, we hope to complete the UI for a few important pages such as login and registration, navigation, and the homepage. We also plan to create a database that will hold basic user and group information. By the end of the sprint, the team aims to have functional UI components, database interactions, and tested algorithms to ensure a smooth user experience.

SCRUM Master: Ayush Bindal

SCRUM Meeting Schedule: Tuesdays (2:00 - 4:00 PM EST), Thursdays (2:00 - 4:00 PM EST)

Risks and Challenges:

The first sprint comes with several risks and challenges, primarily due to our need to establish processes and set up the technical foundation of the project. One risk we may incur is with our user stories. Some of our user stories may be too vague or require changing, causing disruptions to the development process. Another risk is we may not completely finish our user stories. If one of the user stories turns out to be more difficult than expected it could delay the project and work on other user stories, leading to some being unfinished at the end of the sprint. Lastly, we should be sure we are testing habitually and often to ensure we don't have to redo entire sections of code.

Current Sprint Detail

User Story #1

As a user, I would like to be able to register an account.

#	Description	Estimated Time	Owner
1	Create UI panel to retrieve relevant user information (Purdue email, password, name etc…)	5 hours	John
2	Create a mock program to demonstrate interactions between the client and the server-database	3 hours	Jalen
3	Create algorithm to populate database with user information	2 hours	Zhao
4	Debug and test algorithm using unit tests	2 hours	Zhao
5	Handle error checking on the UI Panel	3 hours	John

Acceptance Criteria:

1. Given that the UI for account registration is implemented correctly, when a user enters their information and submits the form, then the client should validate all required fields.

2. Given that the UI for account registration is implemented correctly, when a user enters invalid fields the system should display an error message and prevent the user from proceeding.

3. Given that the server manages new accounts correctly, users cannot register existing emails in the database

4. Given that the database connection is correctly implemented, when a valid account request is made, then a new account should be created.

5. Given that unit tests are written for the account creation algorithm when the tests are executed, then they should verify that valid user data is successfully added to the database.

User Story #2

As a user, I would like to verify my enrollment in a university by sending a confirmation code to my university's email when I register an account.

#	Description	Estimated Time	Owner
1	Create registration UI panel to accept confirmation code	2 hours	John
2	Create algorithm to send unique confirmation code	2 hours	Zhao
3	Create an algorithm to validate the entered confirmation code with sent confirmation code.	2 hours	Zhao
4	Create a client-side response to redirect to the groups page after a successful registration	2 hours	John
5	Debug and tests algorithm using unit tests	2 hours	Zhao

Acceptance Criteria:

1. Given that the registration UI panel is implemented correctly, it should validate the formatting of the confirmation code before requesting anything from the server.

2. Given that the registration confirmation succeeds, the user should be redirected to a new page

3. Given that the server-side logic for the confirmation code is implemented correctly, every new user should be able to have a unique confirmation code without duplicates.

User Story #3

As a user, I would like to be able to login to an account.

#	Description	Estimated Time	Owner
1	Create UI panel to retrieve user information	4 hours	John
2	Create an algorithm to compare database with entered user information (using a mock request)	3 hours	Zhao
3	Create client response to redirect user upon successful login	2 hours	John
4	Debug and test algorithm using unit tests	3 hours	Zhao
5	Handle error checking on the UI Panel	3 hours	John

Acceptance Criteria:

1. Given that the UI panel is implemented correctly, when a user enters an incorrectly formatted email, shows an error on the panel

2. Given that the user inputs an incorrect username and password, they should be notified the username or password is incorrect.

3. Given that the user inputs a username and password of an existing account, they should be redirected to the home page.

User Story #4

As a user I would like to navigate to other pages via a taskbar.

#	Description	Estimated Time	Owner
1	Create navigation link to go to homepage (groups page is the homepage)	1 hours	Jalen
2	Create navigation link to go to profile info page (profile icon)	1 hours	Jalen
3	Create navigation link to go to events page	1 hours	Jalen
4	Create navigation link to go to the forum page	1 hour	Jalen
5	Create navigation link to go to the messaging page	1 hour	Jalen

Acceptance Criteria:

1. Given that the page navigation works correctly, a user should be able to visit any other page from the Groups page

2. Given that the page navigation works correctly, a user should be able to visit any other page from the Profile page

3. Given that the page navigation works correctly, a user should be able to visit any other page from the Messages page

4. Given that the page navigation works correctly, a user should be able to visit any other page from the Events page

5. Given that the page navigation works correctly, a user should be able to visit any other page from the Forums page

6. Given that the page navigation works correctly, a user should be able to visit any other page from the Friends page

User Story #5

As a user, I would like to customize my profile page

#	Description	Estimated Time	Owner
1	Create a UI page to display current account information and update account information	6 hours	Jalen
3	Create an algorithm to populate database(s) with updated account information (using mock information)	3 hours	Ayush
4	Debug and test algorithms using unit tests	2 hours	Ayush
5	Handle error checking for the appropriate on the UI page	2 hours	Jalen

Acceptance Criteria:

1. Given that the profile page is implemented correctly, when a user accesses it, then the UI panel should display their account information.

2. Given that profile customization is implemented correctly, when a user makes changes, they should be prompted to confirm these changes.

3. Given that invalid data is entered (e.g., empty required fields, incorrect email format, etc…), when the user attempts to save changes, then an appropriate error message should be displayed.

4. Given that updates are processed, when a user submits valid changes, then the user should see a confirmation message indicating their account information has been successfully updated.

User Story #6

As a user I would like to create a group

#	Description	Estimated Time	Owner
1	Create a client-side response to redirect to a groups creation page from the group page (button)	1 hours	Manoah
2	Create UI page to allow users to create a new group	5 hours	Manoah
3	Create an algorithm to store details about the group in the database (using mock information)	3 hours	Ayush
4	Create a client-side response to redirect to a groups page after successful creation or cancel	2 hours	Manoah
5	Debug and test algorithm using unit tests	3 hours	Ayush
6	Handle error checking on the fields on the group creation UI page (required info)	3 hours	Manoah
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Acceptance Criteria:

1. Given that the create group UI page is implemented correctly, users should be able to define a group name and description.

2. Give that the create group UI page is implemented correctly, users should be directed back to the homepage if they cancel group creation

3. Given that the UI panel is implemented correctly, when a user enters group details and submits the form, then a new group should be created.

4. Given a create groups button, when the user clicks on the button, then the user will be redirected to the newly created if all fields are valid.

User Story #7

As a user I would like to scroll through <u>my groups</u>

#	Description	Estimated Time	Owner
1	Create a scroll bar and group panels to scroll through on the UI	4 hours	John
2	Program server response to load in panels as the user scrolls	4 hours	Ayush
3	Write unit tests to verify that the client correctly prompts the server as the user scrolls	3 hours	Ayush
4	Display text if the user is not part of any groups	2 hours	John
5	When a user clicks on a group card, send a request to switch to the individual group page.	3 hours	John

Acceptance Criteria

1. Given that the scroll bar is implemented correctly, the user should be able to scroll through groups and be able to load new groups.

2. Given that the scroll bar is implemented correctly, there should be a left and right button on the sides of the bar to allow the user to scroll without gestures

3. Given that the scroll bar is implemented correctly, the user should be able to see the information on each small group panel as they scroll

4. Given that the scroll bar is implemented correctly, the user should see a specific message if there are no groups to scroll through

User Story #8

As a user I would like to create an event

#	Description	Estimated Time	Owner

1	Create a client-side response to redirect to a events creation page from event page (button)	1 hours	Manoah
2	Create UI page for event creation with fields for title, description, date, time, location (text)	5 hours	Manoah
3	Create an algorithm to store details about the event in the database (using mock information)	2 hours	Ayush
4	Create a client-side response to redirect to a events page after successful creation or cancellation	2 hours	Manoah
5	Debug and test algorithm using unit tests	3 hours	Ayush
6	Handle error checking on UI page (required info)	3 hours	Manoah

Acceptance Criteria:

1. Given that the create event UI page is implemented correctly, users should be able to define an event name and description, date, time, location

2. Given that the create event UI page is implemented correctly, users should be directed back to the homepage if they cancel group creation

3. Given a create event button, when the user clicks on the button, then the user will be redirected to the newly created event if all fields are valid.

User Story #9

As a user I would like to scroll through <u>my events</u>

#	Description	Estimated Time	Owner
1	Create a scroll bar and events panel to scroll through on the UI	2 hours	Manoah
2	Program server response to load in panels as the user scrolls	3 hours	Ayush

3	Write unit tests to verify that the client correctly prompts the server as the user scrolls	2 hours	Ayush
4	Display text if the user is not part of any events	1 hours	Manoah
5	When a user clicks on an event card send a request to switch to the individual event page	2 hours	Manoah
6	Display event details on individual cards such as start time, end time, location, and other appropriate brief information (similar to Airbnb house cards)	2 hours	Manoah

Acceptance Criteria:

1. Given that the scroll bar is implemented correctly, the user should be able to scroll through events and be able to load new events.

2. Given that the scroll bar is implemented correctly, there should be a left and right button on the sides of the bar to allow the user to scroll without gestures

3. Given that the user has not joined any events, display a message indicating that no event has been joined.

4. Given that the event cards work correctly, if a user clicks on a specific event card they should be redirected to the page for that event.

User Story #10

As a user, I would like to be able to set what times I am available

#	Description	Estimated Time	Owner
1	Create a UI Panel to ask the user for times they are available.	4 hours	Jalen
2	Update the user profile in the database with list of available times	3 hours	Zhao
3	Create unit tests to ensure that times are being	2 hour	Zhao

	updated correctly		

Acceptance Criteria:

1. Given that the UI panel is implemented correctly, when the user selects an invalid date and/or time they should see an error message

2. Given that the UI panel is implemented correctly, the user should be able to select a range of times that they're available from a visual calendar popup

3. Given that the user has selected their availability, the user should see a message that their preferences have been successfully updated.

4. Given that the user has successfully updated their availability, the user should only see groups that fit their time availability.

User Story #11

As a user, I would like to be able to set locations I would prefer to meet at

#	Description	Estimated Time	Owner
1	Save scraped location data into the database	6 hours	Ayush, Zhao
2	Create UI panel to select preferred locations	3 hours	Jalen
3	Create an algorithm to store locations in the database	4 hours	Zhao

Acceptance Criteria:

1. Given the location data is saved correctly, when the user goes to select preferred location, then all appropriate Purdue locations should display

2. Given the UI panel is implemented correctly, when the user selects preferred locations, they should be saved on the users profile

3. Given that the UI panel is implemented correctly when the user enters correct information, they should see that the information is displayed on their profile

User Story #12

As a user, I would like to be able to view group reviews and ratings

#	Description	Estimated Time	Owner
1	Create UI panel on group page to display the group's average rating	1 hour	Jalen
2	Create UI panel to display a group review	2 hours	Jalen
3	Create UI on group page that allows scrolling through reviews	2 hours	Jalen
4	Create UI panel to display a lack of reviews/rating	1 hour	Jalen

Acceptance Criteria:

1. Given that the user can navigate to a group page, there is a rating displayed for that group

2. Given that the user can navigate to a group page, if there are no ratings for a group, display a message saying the group has no ratings.

3. Given that the user can navigate to a group page there is a panel where written reviews are shown

4. Given that the user can view written reviews there should be a left and right button to scroll through to other reviews.

Backlog

1. **User Registration & Authentication**

   1.1. ~~As a user, I would like to register an account.~~

   1.2. ~~As a user, I would like to be able to log in to my account.~~

   1.3. As a user, I would like to be able to enable 2-factor authentication during registration (stretch)

   1.4. ~~As a user, I would like to reset my password in case I forget it~~

   1.5. ~~As a student, I would like to verify my enrollment in a university by sending a confirmation code to my university's email when I register an account.~~

   1.6. As a user once I create an account I would like to be guided on account setup (courses, available times, etc…) (if time allows)

2. **User, Instructor, & Study Group Profiles**

   2.1. ~~As a user, I would like to be able to modify my account information (password)~~

   2.2. ~~As an instructor, I would like to be able to set my role (TA or professor) and the class I teach using my university email during registration (move to profile)~~

   2.3. As a user I would like to be able to delete my account and all information tied to it.

   2.4. ~~As a student, I would like to be able to set and display what course I am taking, what major I am in, what year I am in, what teachers I have, and what study groups I prefer.~~

   2.5. As a student, I would like to be able to set my current friends

   2.6. ~~As a user, I would like to be able to set what times I am available~~

2.7.   ~~As a user, I would like to be able to set locations I would prefer to meet at~~

2.8.   ~~As a user, I would like to be able to write a bio about myself~~

2.9.   As a user, I would like to be able to connect (make friends) with other users

2.10.   As an instructor I would like to be able to set what courses I am teaching

2.11.   As a instructor I would like to be able to see students enrolled in my courses

2.12.   As a instructor I would like to be able to set my role (UTA, GTA, professor)

2.13.   ~~As a user, I would like to be able to view group reviews and rating~~

2.14.   As an instructor, I would like to be able to specify my group as an instructor led group

3.   **Messaging & Notifications**

3.1.   As a user I would like to message other users

3.2.   As a user I would like to be able to view my message history

3.3.   As a user, I would to receive notifications (emails, browser alerts) about messages

3.4.   As a user, I would like to be able to message one of my friends from their profile

3.5.   As a user, I would like to be able to navigate to a user's profile from my message channel with them

3.6.   As a user I would like to be able to search my message threads for a user and if I do not already have one to create a message thread with them through the search feature.

4.   **Discussion Forum**

4.1.   As a user, I would like to be able to view a list of discussion forum threads

4.2.   As a user, I would like to be able to filter discussion forum threads

4.3.   As a user I would like to be able to start a discussion forum

4.4.　As a user I would like to be able to reply to discussion forums

4.5.　As a user I would like to be able to upvote or downvote a discussion forum

4.6.　As a user I would like to receive notifications about replies to my forum posts

5.　Study Group Discovery & Scheduling

5.1.　As a user I would like to be able to search for other users (potential connects/friends) based on my profile

5.2.　As a user I would to be able to search for other users by filters

5.3.　As a user I would like to schedule events

5.4.　As a user I would like to see a collection of upcoming events on the events page

5.5.　As a user I would like to register for an upcoming event

5.6.　As a user, I would like be filter through upcoming events by date, location, and classes

5.7.　As a user I would like to be able to set reminders about my upcoming events

5.8.　As a student, I would like to rate other students or instructors in my study group (like Uber)

5.9.　As a student I would like to provide a written review for other students and instructors

5.10.　As a user, I would like to create study group profiles

5.11.　As a student, I would like to see public study groups

5.12.　As a user I would like to see private study groups. If they are private I would like to be able to send a request to the host to join the study group.

6.　Navigation and Usability

6.1.　As a user, I would like to be able to view a homepage that summarizes my upcoming events and account info

6.2.　　As a user, I would like to be able to access some info about the creators of the app

6.3.　　As a user, I would like to generate a QR code for my study group

6.4.　　As a user I would like to be able to scan a QR code and join a study group

Non-Functional

1. Maintain relational database to store data that is organized, scalable, and easy to maintain

2. Interface must be fast, responsive, intuitive, and comprehensive

3. Must not be to complicated so that users can create study groups, schedule events

Total hours

Total: 152

John Brooks: 30

Ayush Bindal: 31

Manoah Inje: 30

Jalen Mann: 29

Zhaorong Tu: 32