



## **Team 28 Sprint 2 Planning Document**

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### **Sprint Overview**

The main goal of our second sprint will be to get the private messaging functionality working. This will require handling messages sent from the client to the server, and storing them properly in the database. In addition, we will have to handle retrieving messages from the server as well. This will be a large undertaking as none of us have experience with this, and, as such, we will need to research to start off how private messaging systems work and how the basic structure of the server will need to be to handle such requests. In addition, we will flesh out user profiles a bit more, and add the ability to rate tutors.

**Scrum Master:** Zachary Rich

### **Meeting Schedule**

Mondays and Wednesdays at 11:30am

### **Risks/Challenges**

The largest challenge in this sprint will be handling the messaging function of our app as this will require a significant amount of infrastructure to support it on both the client and server sides of our application. We will start out with research in order to figure out the best way to approach this.

## Current Sprint Detail

### User Story #1

As a user, I want a notification when someone answers my ad.

#	Description	Time	Owner
1.	Learn how notifications work	2 hours each	Geoffrey Myers and Jonathan Poholarz
2.	Implement system to connect with native android notifications	4 hours	Geoffrey Myers
3.	Connect message system to notifications	4 hours	Curtis Maves
4.	Implement the ability to tap on the notification and have it take a user into the app.	6 hours	Geoffrey Myers

### Acceptance Criteria:

- Given that a user is messaged, they should receive a notification on their phone that a message has been sent to them.
- Given that the user notification system is implemented properly, when a user is notified, they should be able to see what class the student who responded to their ad is in.
- Given that the user notification system is created properly, when a user receives a notification and taps on it, they should be taken to the messaging screen.

## User Story #2

As a user, I want to message other users.

#	Description	Time	Owner
1.	Research best messaging methods	3 hours each	Everyone
2.	Create messaging page UI	4 hours	Geoffrey Myers
3.	Setup messaging functionality on client to connect with server	6 hours	Jonathan Poholarz
4.	Implement the backend work needed to handle incoming messages and sending messages back to the client.	13 hours	Zachary Rich
5.	Come up with a way of creating cookies and specific sockets for each user and their messaging processes.	6 hours	Curtis Maves
6.	Implement some sort of message storing schema with the database	5 hours	Curtis Maves
7.	Write client-side functionality for message sending and retrieval	6 hours	Jonathan Poholarz

### Acceptance Criteria:

- Given that a user clicks the “Message” button on a user’s profile, they will be taken to a page where they may chat with selected user.
- Given that the messaging system is implemented properly, when the user goes to view their messages, they should be able to scroll through their previous messages with the other user.
- Given that the messaging system is created correctly, when the user goes to view their messages, they should be able to view all their conversations with other users.

### User Story #3

As a user, I want to be able to delete my own post or ad.

#	Description	Time	Owner
1.	Write a DELETE request on the server to delete the post from the database, and ensure what is requested is properly deleted.	4 hours	Zachary Rich
2.	Allow users the option not to post their ad to the listings	4 hours	Curtis Maves

#### Acceptance Criteria:

- Given that a user has a message and wants it deleted, the user will be able to select a message and send the request to the server.
- Given that the user is trying to delete their own message, the server will receive the request and remove it from the database.
- Given that the message was properly deleted, the status 200 will be received by the client and the message will be deleted from users' views.

#### User Story #4

As a student, I want to be able to rate tutors.

#	Description	Time	Owner
1.	Implement a data field for users that are tutors to store the rating	2 hours	Zachary Rich
2.	Use JSON parsing to access the string as an integer and create the average rating	2 hours	Zachary Rich
3.	Add rating profile field and button	2 hours	Geoffrey Myers

#### Acceptance Criteria:

- Given that a user navigates to a tutors profile page, they can leave a like or dislike for the tutor.
- Then, the server will compute the averages of the ratings and send them to the client.
- Given the average, the client will display the correct rating percentage accurately and easily readable.

### User Story #5

As a user, I want to reset my password if I forget it.

#	Description	Time	Owner
1.	Write functions to send the emails to the users' stored email address.	5 hours	Jonathan Poholarz
2.	Create functions to ensure the correct verification code was entered when resetting	3 hours	Jonathan Poholarz
3.	Add functionality for updating the password in the back-end database	1 hour	Curtis Maves

### Acceptance Criteria:

- Given that the email system is setup correctly, when the users go to reset their password, they will be sent an email with a randomly generated code, which, when entered into the app, will allow the user to make a new password.
- Given that the verification system is made correctly, when a user enters in the wrong verification code, they will be alerted that the code is incorrect.
- Given that the password reset system is implemented properly, when a user is done creating a new password, they will be taken back to the initial login page.

## User Story #6

As a user, I want to upload an avatar

#	Description	Time	Owner
1.	Add UI functionality for user to select an avatar image	6 hours	Jonathan Poholarz
2.	Add functionality for a user to upload an avatar from the web	7 hours	Geoffrey Myers
3.	Implement functionality for storing the images in the database	4 hours	Zachary Rich
4..	Implement functionality for updating the user's photo in the database	6 hours	Curtis Maves

### Acceptance Criteria:

- Given that the upload function is completed, when a user goes to upload a photo, they should be able to upload straight from their photo gallery on their phone.
- Given that avatar updating functionality is completed correctly, when a user goes to update their avatar, their photo should then be updated in the database and be updated in every instance where their avatar appears.
- Given that the avatar updating functionality is implemented correctly, when a user is done updating their avatar, they should then be taken back to their new updated profile page.

## Remaining Backlog

### Functional

1. As a user, I want to sign in.
2. As a user, I want to select a class.
3. As a user, I want to create a profile.
4. **As a user, I want to upload an avatar.**
5. **As a user, I want a notification when someone answers my ad.**
6. **As a user, I want to message other users.**
7. As a user, I want to post to a message board for a class.
8. As a user, I want to create an account.
9. **As a user, I want to reset my password if I forget it.**
10. As a user, I want to choose if I am a tutor or student, or both.
11. As a user, I want to display what hours I am available.
12. As a user, I want to access this all from a web browser (if time permits).
13. As a user, I want to block other users.
14. As a user, I want to be able to report ads and posts.
15. As a user, I want to be able to pay or tip a tutor (if time permits).
16. As a user, I want to create a group conversation (if time permits).
17. As a user, I want results filtered to my school.
18. **As a user, I want to be able to delete my own post or ad.**
19. As a user, I want my messages to be private (if time permits).
20. As a user, I want the app to be visually appealing.
21. As a student, I want to post an ad.
22. **As a student, I want to be able to rate tutors.**
23. As a student I want to filter results.
24. As a tutor, I want to list my classes.
25. As a tutor, I want to post an ad.
26. As a tutor, I want to list my prices.
27. As an admin, I want to ban users.
28. As an admin, I want moderating capabilities of ads and posts.
29. As a developer, I want well-documented code.
30. As a developer, I want to take a cut of payment through the app (if time permits).

### Non-Functional

1. The app will run on android devices
2. The app will run on other platforms, such as iOS (if time permits).
3. The app will be accessible from the web (if time permits).
4. The app will connect to a back-end webservice and database, such as mongoDB.
5. The app will be simple to use and easy to navigate.
6. The app will be quick and responsive.
7. The system will be able to handle multiple users.