

Purdue University

## Sprint 2 Planning Document

### MonsterChat Application

Team #14:

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## **1. Sprint Overview**

For our second sprint we will be mainly focusing on adding more functionality and GUIs which will make our app look more polished and more refined than the prototype from the previous sprint. The three main goals of this sprint are:

1. Implement GUIs for all views for iOS.
2. Implement GUIs for all views for Android.
3. Integrate background Swift code with MCF.

**Scrum Master:** Rayten Rex

**Scrum Meetings/Time:** MWF at 1:00 pm

**Risks/Challenges:**

We need to get certain functionalities implemented at a reasonable pace so we have enough time to build on those functionalities to get GUIs implement and have a more complete and polished second version.

## **2. Current Sprint Detail**

**User Story:** As a user, I want to be able to change the color setting of the GUI because I want to customize my app experience.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to change the GUI Color. (Android)	2	Cole
Create a Settings page with the ability to change the GUI Font. (iOS)	2	Vishal
Write the color setting to a config file (Android)	2	Andrew
Write the color setting to a config file (Android)	2	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to change the color of their GUI.

**User Story:** As a user, I want to be able to change the font setting of the GUI because I want to customize my app experience.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to change the GUI Font. (Android)	2	Cole
Create a Settings page with the ability to change the GUI Font. (iOS)	2	Zeyu
Write the font setting to a config file (Android)	2	Andrew
Write the font setting to a config file (iOS)	2	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to change the font of their GUI.

**User Story:** As a user, I want to be able to change the theme of the GUI because I want to customize my app experience.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to change the GUI Theme. (Android)	4	Cole
Create a Settings page with the ability to change the GUI Theme. (iOS)	4	Vishal

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to change the theme of their GUI.

**User Story:** As a user, I want to be able to change the style setting of the GUI because I want to customize my app experience.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to change the GUI Style. (Android)	4	Cole
Create a Settings page with the ability to change the GUI Style. (iOS)	4	Zeyu
Write the style setting to a config file (Android)	4	Andrew
Write the style setting to a config file (iOS)	4	Rayten
Embel an ability in setting page to upload user's own image as a chat background	4	Zeyu

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to change the style of their GUI.

**User Story:** As a user, I want to be able to change my “in app name” across sessions because it will allow me to remain anonymous.

Task Description	Estimated Time	Owner
Create a Home Page with ability to change the Username. (Android)	4	Cole
Create a Home Page with ability to change the Username. (iOS)	4	Vishal

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to change their name that is displayed when they chat.

**User Story:** As a user, I want to be able to save my “in app name” across sessions because I do not want to have to type in my name everytime I use the app.

Task Description	Estimated Time	Owner
Write the username to a file (Android)	2	Andrew
Read the username from a file (Android)	2	Andrew
Write the username to a file (iOS)	2	Rayten
Read the username from a file (iOS)	2	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to save their usernames across sessions.

**User Story:** As a user, I want to be able to view my past conversation(s) because I would like to be able to access information that I may have forgotten.

Task Description	Estimated Time	Owner
Write chat messages to a log (Android)	8	Andrew
Read chat messages from a log (Android)	10	Andrew
Create a Log List window to display logged chats. (Android)	4	Cole
Create a Log View window to display logged chats. (Android)	4	Cole
Write chat messages to a log (iOS)	8	Rayten
Read chat messages from a log (iOS)	10	Rayten
Create a Log List window to display logged chats. (iOS)	5	Vishal
Create a Log View window to display logged chats. (iOS)	5	Zeyu
Create a search bar to easily find user's intend conversation among conversations(iOS)	2	Zeyu
Create a button to allow user to stick his most favourite conversation in the top of the logged chats (iOS)	5	Zeyu

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to view their past conversations to see old information they might have forgotten.

**User Story:** As a user, I want to be able to view chat rooms because I want to know what chat rooms are available to me.

Task Description	Estimated Time	Owner
Retrieve a list of available chat rooms by querying surrounding devices of the chat rooms they are joined to. (Android)	4	Michael
Create a Chat Rooms List window that allows the users to view the available chat rooms (Global always exists). (Android)	4	Cole
Create a Chat Rooms List window that allows the users to view the available chat rooms(Global always exists). (iOS)	4	Zeyu
Create a search bar to find user's wanted chat rooms among available chat rooms(iOS)	3	Zeyu
Display missing number of messages and most recent conversation time beside the chat room name(iOS)	4	Zeyu

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to view the Chat Rooms that are available for them to join.

**User Story:** As a user, I want to be able to create and join chat rooms because I want to be able to chat with other users.

Task Description	Estimated Time	Owner
Add a button to Chat Rooms List that allows the user to create a chat room. (Android)	4	Cole
Add a button to Chat Rooms List that allows the user to create Chat Rooms. (iOS)	4	Vishal
Add a button to Chat Rooms List that allows the user to block unwanted Chat Rooms(iOS)	4	Zeyu
Create a search bar to find user's wanted chat rooms among available chat rooms(iOS)	3	Zeyu

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to create and join chat rooms.

**User Story:** As a developer, I want to be able to log errors because I can use the error logs to figure out why the application failed to work.

Task Description	Estimated Time	Owner
Write error messages to a log (Android)	6	Andrew
Write error messages to a log (iOS)	6	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, developers will be able to view errors and understand what crashed the program.



**User Story:** As a user, I would like to be able to enable and disable timestamps because I would like to know when a message is received but also have the option to disable it.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to enable/disable timestamps. (Android)	4	Cole
Create a Settings page with the ability to enable/disable timestamps. (iOS)	4	Zeyu
Write the timestamp setting to a config file (Android)	2	Andrew
Write the timestamp setting to a config file (iOS)	2	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to enable and disable timestamps.

**User Story:** As a user, I would like to change timestamps between military and standard time because I want to see the time in different formats to customize my chat experience.

Task Description	Estimated Time	Owner
Create a Settings page with the ability to change the time formatting. (Android)	4	Cole
Create a Settings page with the ability to change the time formatting. (iOS)	4	Vishal
Write the timestamp setting to a config file (Android)	2	Andrew
Write the timestamp setting to a config file (iOS)	2	Rayten

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to customize their timestamps.

**User Story:** As a user, I would like to improve the networking because I do not want to have to deal with any issues that could be caused by poor network management.

Task Description	Estimated Time	Owner
Have each device spawn a new thread upon opening the app to listen for incoming connections. (Android)	6	Michael
Spawn a new thread for each peer that connects to the device. (Android)	6	Michael
Spawn a new thread for each connection a device sends out. (Android)	6	Michael
Ensure that connections with devices that disconnect are closed. (Android)	6	Michael
Ensure that threads terminate properly and close any streams and connections they may have made. (Android)	6	Michael
Conduct tests to determine delays between messages. (Android)	3	Michael
Conduct tests to determine device range which may vary per device. (Android)	3	Michael
Spawn multiple sessions per chat room. (iOS)	7	Vishal
Try to communicate between two different sessions. (iOS)	7	Vishal
Test to see if a user can belong to two distinct sessions at one time. (iOS)	4	Vishal

**Acceptance Criteria:** If this user story is implemented successfully, users will be able to communicate with other users without noticing any issues that may arise due to poor networking.

### **3. Remaining Backlog**

#### **Functional:**

1. As a user, I want the ability to create and/or join a private chat room because I want to chat with a specific group of people without others being able to join.
2. As a user, I want to be able to view private chat rooms because I want to know what private chat rooms are available to me.
3. As a user, I want some kind of filter to minimize spam because I do not want to have my chat experience ruined by other users.
4. As a user, I want the ability to block the messages of other users because I do not want my chat experience ruined by other users.
5. As a developer, I want to be able to receive feedback from users because I can use the feedback to better the app.
6. As a developer, I want a secure method to transfer data because I do not want my users' personal information to be accessed by a third party.
7. As a user, I want to be able to send a picture because I want allow other people to see them.
8. As a user, I don't want pictures to clog up my chat because I do not want my chat experience to be cluttered by large images.

#### **Nonfunctional:**

1. As a user, I want to send and receive messages quickly or in about under a second.
2. As a user, I want cross-platform communication because I want to be able to chat with users that have a different phone than me.(if time allows)

3. As a user, I want the application to run with as little RAM usage as possible.
4. As a developer, I want easy updates because I do not want it to be difficult to push updates to the user.
5. As a user, I want to be able to use this app without excessive battery strain because I want the app to run a long time without my battery running out.
6. As a user, I want my data to be secure in private chat rooms because I do not want a third party accessing my messages or information.
7. As a user, I want to be able to use this app on Windows phones.