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Software Requirements Specification

1. PURPOSE

- 1.1. This document is to explain and define the requirements of the app Social Task (Name Pending). The intent of this document will be software developers, project managers, sponsors.

2. SCOPE

- 2.1. By the end of this project we should have an application that a user can use its GUI that will organize its task. All tasks will be shared between users. Also be able to notify users when tasks are due and are approaching. Whale allows for customization of certain tasks and viewability of shared tasks.

3. DEFINITIONS

3.1. *Portrait mode*

- 3.1.1. Holding a smart device in a way that where the length is longer than the width

3.2. *LTS*

- 3.2.1. Long term Support - meaning unity services will continue to update this version of their software

3.3. *SCM*

- 3.3.1. Source Control Management -

3.4. *Public*

- 3.4.1. Only viewed by user and any other user

3.5. *Friends*

- 3.5.1. Only viewed by any other user tagged as a friend

3.6. *Groups*

- 3.6.1. Only viewed by user and any other user tagged within a group

3.7. *Private*

- 3.7.1. Only viewed by only the user

4. GENERAL DESCRIPTION

4.1. *PRODUCT DESCRIPTION*

- 4.1.1. This product works as a time management software that will allow users to keep track of tasks they need to do throughout the week, while also displaying these tasks to the public and their friends in order to have a sense of accountability when people see you have not completed a task.

4.2. *PRODUCT FUNCTIONALITY*

- 4.2.1. Product will allow user to do the following:
 - 4.2.1.1. Create task
 - 4.2.1.2. Edit existing task
 - 4.2.1.3. View existing task created by other users
 - 4.2.1.4. View existing task created by friends
 - 4.2.1.5. View existing task created by the user

- 4.2.1.6. Editing the visibility of existing task to be only seen by following:
 - 4.2.1.6.1. User
 - 4.2.1.6.2. User's joined groups
 - 4.2.1.6.3. User friends
 - 4.2.1.6.4. Any user
- 4.2.1.7. Create groups that will have other users within the group
- 4.2.1.8. Directly message other users
- 4.2.1.9. Befriend other users thus allowing visibility of certain existing task
- 4.2.1.10. Edit when users on existing task should be notify by said task

4.3. *USER CHARACTERISTICS*

- 4.3.1. Users shall be people who are already familiar with social media apps. While also users should be people that deal with day-to-day errands and tasks that need help managing their time.

5. REQUIREMENTS

5.1. *FUNCTIONAL REQUIREMENTS*

5.1.1. Task

- 5.1.1.1. The GUI shall permit the user to enter the following parameters when creating a task:

- 5.1.1.1.1. Title
- 5.1.1.1.2. Location
- 5.1.1.1.3. Due Date and time
- 5.1.1.1.4. Description of task
- 5.1.1.1.5. Whether the task is repeatable
- 5.1.1.1.6. Whether the task is public
- 5.1.1.1.7. Whether other users are able to join the task
- 5.1.1.1.8. Whether other users are involved in the task
- 5.1.1.2. The software shall allow users to edit all the parameters previously stated
- 5.1.1.3. The software shall share task that the user creates for other users to see on their Home feed screen
- 5.1.1.4. The software shall notify user when task are due
- 5.1.1.5. The software shall allow the user to mark task as complete
- 5.1.1.6. The software shall allow the user to organize task based off subject that relate to the task

5.1.2. User profile

- 5.1.2.1. Sign up
 - 5.1.2.1.1. The software shall allow user to set up a profile using the following:
 - 5.1.2.1.1.1. Email address
 - 5.1.2.1.1.2. A unique username
 - 5.1.2.1.1.3. Password

- 5.1.2.1.2. The software shall allow the user to create a unique username that no other user has used
- 5.1.2.1.3. The software shall require the user to create a password with at least:
 - 5.1.2.1.3.1. One capitalize letter
 - 5.1.2.1.3.2. One lowercase letter
 - 5.1.2.1.3.3. One digit
 - 5.1.2.1.3.4. One special character
 - 5.1.2.1.3.5. Minimum character length of 8
- 5.1.2.2. Remove profile
 - 5.1.2.2.1. The software shall allow the user to remove the profile
- 5.1.2.3. Profile management
 - 5.1.2.3.1. The software shall allow the user to change their username

5.1.3. Friends

- 5.1.3.1. The software shall allow the user to add other user as a “friend” tag

5.1.4. Database

- 5.1.4.1. The database shall store user data
 - 5.1.4.1.1. The database shall store username
 - 5.1.4.1.2. The database shall store password hash
 - 5.1.4.1.3. The database shall store email address
 - 5.1.4.1.4. The database shall store given name
 - 5.1.4.1.5. The database shall store surname
 - 5.1.4.1.6. The database shall store biography
 - 5.1.4.1.7. The database shall store profile picture
 - 5.1.4.1.8. The database shall store created datetime
 - 5.1.4.1.9. The database shall store last login datetime
- 5.1.4.2. The database shall store task data
 - 5.1.4.2.1. The database shall store the scope of users to share it with
 - 5.1.4.2.1.1. Friend
 - 5.1.4.2.1.2. Group
 - 5.1.4.2.1.3. Public
 - 5.1.4.2.1.4. Private
 - 5.1.4.2.2. The database shall store the task description
 - 5.1.4.2.3. The database shall store the task picture
 - 5.1.4.2.4. The database shall store the task title
 - 5.1.4.2.5. The database shall store the task date
 - 5.1.4.2.6. The database shall store the location
 - 5.1.4.2.7. The database shall store user limit
 - 5.1.4.2.8. The database shall store if it is joinable
 - 5.1.4.2.9. The database shall store created datetime
- 5.1.4.3. The database shall store task subject data
 - 5.1.4.3.1. The database shall store title

- 5.1.4.3.2. The database shall store created datetime
- 5.1.4.3.3. The database shall store if it is a group or not
- 5.1.4.4. The database shall store chat data
 - 5.1.4.4.1. The database shall store the last message
 - 5.1.4.4.2. The database shall store last message time
- 5.1.4.5. The database shall store chat message data
 - 5.1.4.5.1. The database shall store message text
 - 5.1.4.5.2. The database shall store message media
 - 5.1.4.5.3. The database shall store created datetime
- 5.1.4.6. The database shall store friendship data
- 5.1.4.7. The database shall store task comment data
 - 5.1.4.7.1. The database shall store text
 - 5.1.4.7.2. The database shall store created datetime
- 5.1.4.8. The database shall store task like data
 - 5.1.4.8.1. The database shall store created datetime

5.1.5. Nav Bar buttons

- 5.1.5.1. Home button shall change the screen the user is currently on to be that of the home feed screen.
- 5.1.5.2. Chat button shall change the screen the user is currently on to be that of the chat screen.
- 5.1.5.3. New task button shall change the screen the user is currently on to be that of the search screen
- 5.1.5.4. Interactions button shall change the screen the user is currently on to be that of the interactions screen.
- 5.1.5.5. Subjects button shall change the screen the user is currently on to be that of the my tasks screen.

5.1.6. Home feed buttons

- 5.1.6.1. Mode Switch shall change the feed to display between
 - 5.1.6.1.1. Task of all user within the database
 - 5.1.6.1.2. Mode Switch shall change task of other user's friends
- 5.1.6.2. The title of the home screen
- 5.1.6.3. Settings button shall change the screen the user is currently on to be that of the settings screen.
- 5.1.6.4. Task Button shall change the screen the user is currently on to be that of the new task screen

5.1.7. My tasks buttons

- 5.1.7.1. Subject button change the screen the user is currently on to be that of the selected subject screen
- 5.1.7.2. Back button shall change the screen the user is currently on to be that of the previous screen

5.1.8. Settings Buttons

5.1.8.1. Account settings

- 5.1.8.1.1. The username text field shall allow the user to type in a username
- 5.1.8.1.2. The email text field shall allow the user to type in a email
- 5.1.8.1.3. Profile picture button shall change the current screen the user is on to the upload new profile picture screen
 - 5.1.8.1.3.1. Back button shall change the screen the user is currently on to be that of the previous screen
 - 5.1.8.1.3.2. Save button shall store selected profile picture in the user data
- 5.1.8.1.4. Linked accounts dropdown shall allow the user to select an account to link to
 - 5.1.8.1.4.1. Google
 - 5.1.8.1.4.2. Notion
- 5.1.8.1.5. Private account dropdown shall allow the user to select between their account visibility to be Public or Private

5.1.8.2. Appearance settings

- 5.1.8.2.1. The theme mode button shall change the color scheme of that between a white scheme or a dark gray scheme.
- 5.1.8.2.2. Size of task slider shall allow the user to adjust the size of the containers of tasks on the home feed screen.

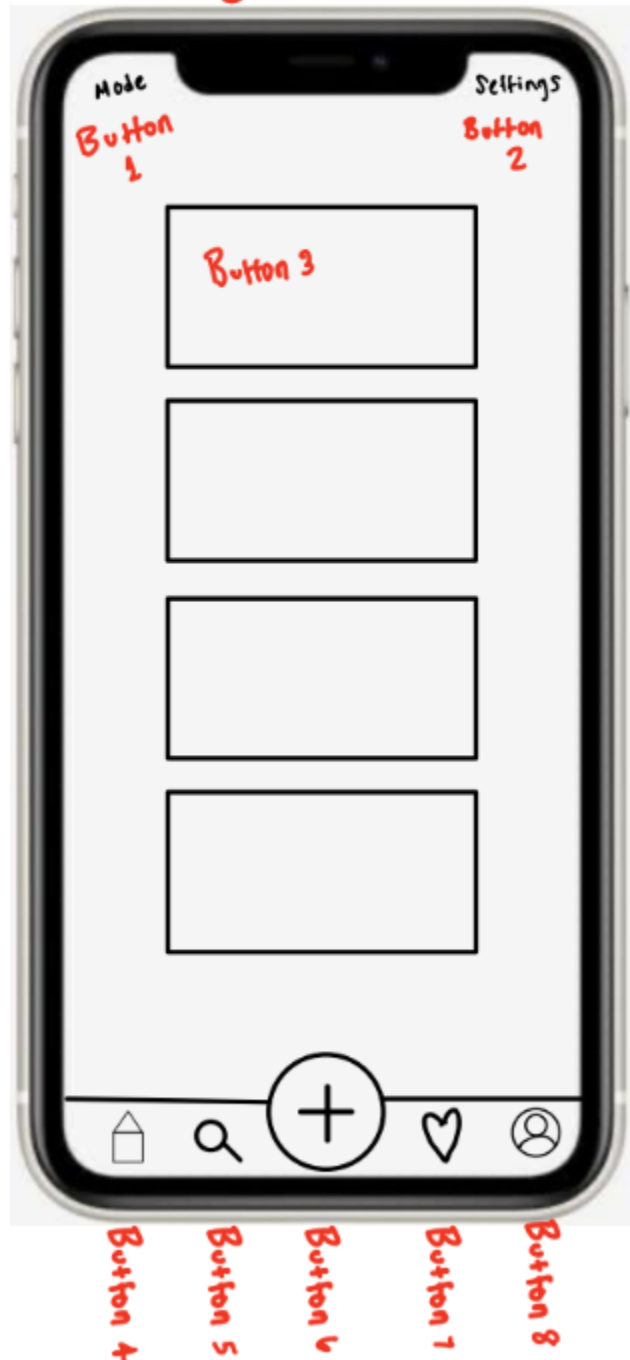
5.2. NON-FUNCTIONAL REQUIREMENTS

5.2.1. User Interface

The GUI is based on a standard smartphone aspect ratio of 16:9 with a screen resolution of 1280x720.

5.2.1.1. Home feed screen

Figure 1



- 5.2.1.1.1. The home feed screen (shown in figure one) shall have 8 different buttons

5.2.1.1.1.1. Button 1: Mode Dropdown

5.2.1.1.1.1.1. The GUI shall display dropdown:

5.2.1.1.1.1.1.1. Public

5.2.1.1.1.1.1.2. Friends

5.2.1.1.1.1.1.3. Groups

5.2.1.1.1.2. Button 2: Settings Button

5.2.1.1.1.2.1. The GUI shall display the settings button

5.2.1.1.1.3. Button 3: Task Button

5.2.1.1.1.3.1. The GUI shall display the task information

5.2.1.2. **Nav Bar**

5.2.1.2.1. The GUI shall display a bar that stays persistent throughout all screens. (As seen in figures 1 - 7)

5.2.1.2.1.1. Button 4: Home Button

5.2.1.2.1.1.1. The GUI shall display the home button

5.2.1.2.1.2. Button 5: Search Button

5.2.1.2.1.2.1. The GUI shall display the search button

5.2.1.2.1.3. Button 6: New Task Button

5.2.1.2.1.3.1. The GUI shall display the new task button

5.2.1.2.1.4. Button 7: Interactions Button

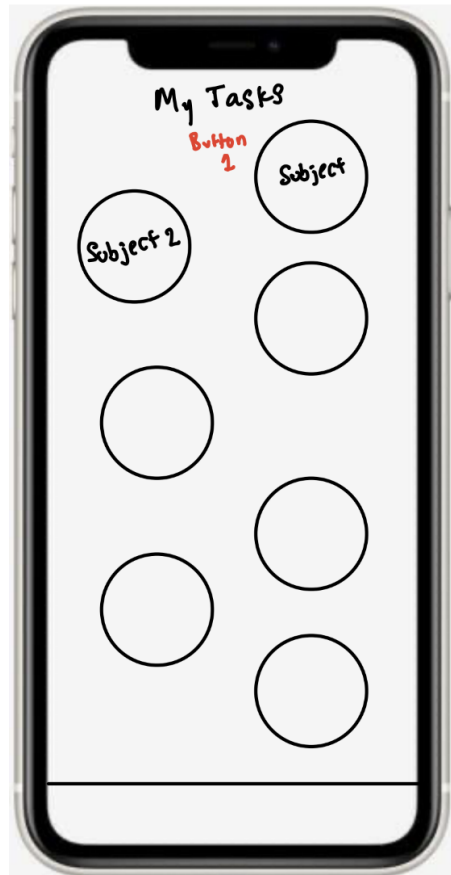
5.2.1.2.1.4.1. The GUI shall display the interactions
button

5.2.1.2.1.5. Button 8: My Tasks Button

5.2.1.2.1.5.1. The GUI shall display the my tasks button

5.2.1.3. My tasks screen

Figure 2



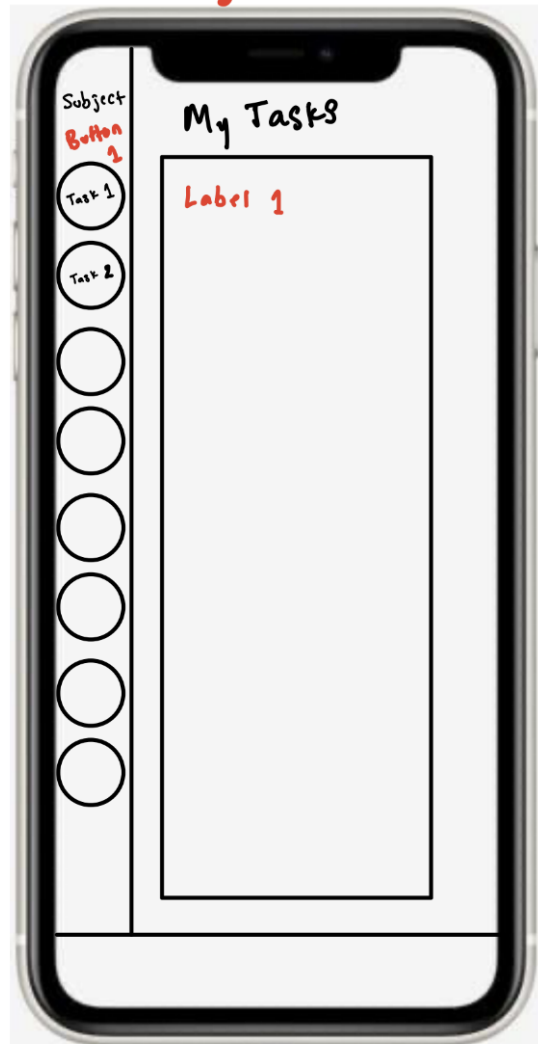
5.2.1.3.1. The software shall have a my tasks subject screen (Shown in figure 2) that will contain all the tasks that the user has made or chosen to participate in

5.2.1.3.1.1. Button 1: Subject Button

5.2.1.3.1.1.1. The GUI shall display the name subject

5.2.1.4. Selected subject screen

Figure 3



5.2.1.4.1. The selected subject screen (shown in figure 3) will show the tasks from the selected subject

5.2.1.4.1.1. Button 1: Task Button

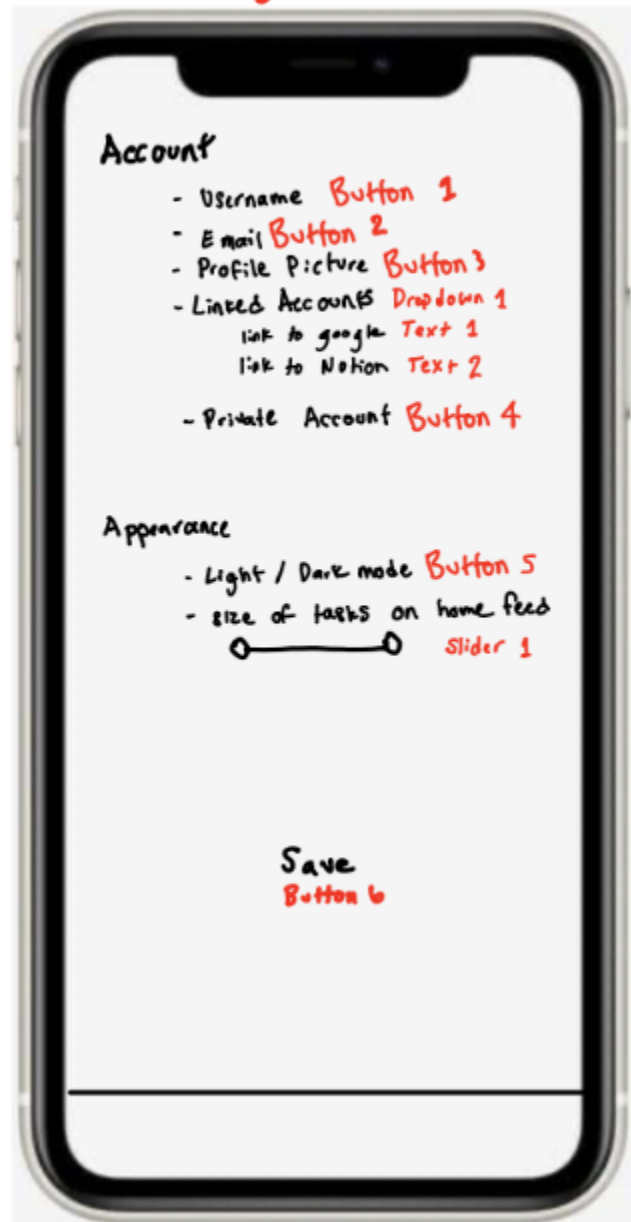
5.2.1.4.1.1.1. The GUI shall display the name of the task

5.2.1.4.1.2. Label 1: Selected Task

5.2.1.4.1.2.1. The GUI shall display the selected task

5.2.1.5. Settings screen

Figure 4



5.2.1.5.1. The settings screen (shown in figure 4) shall display different categories of settings as headers

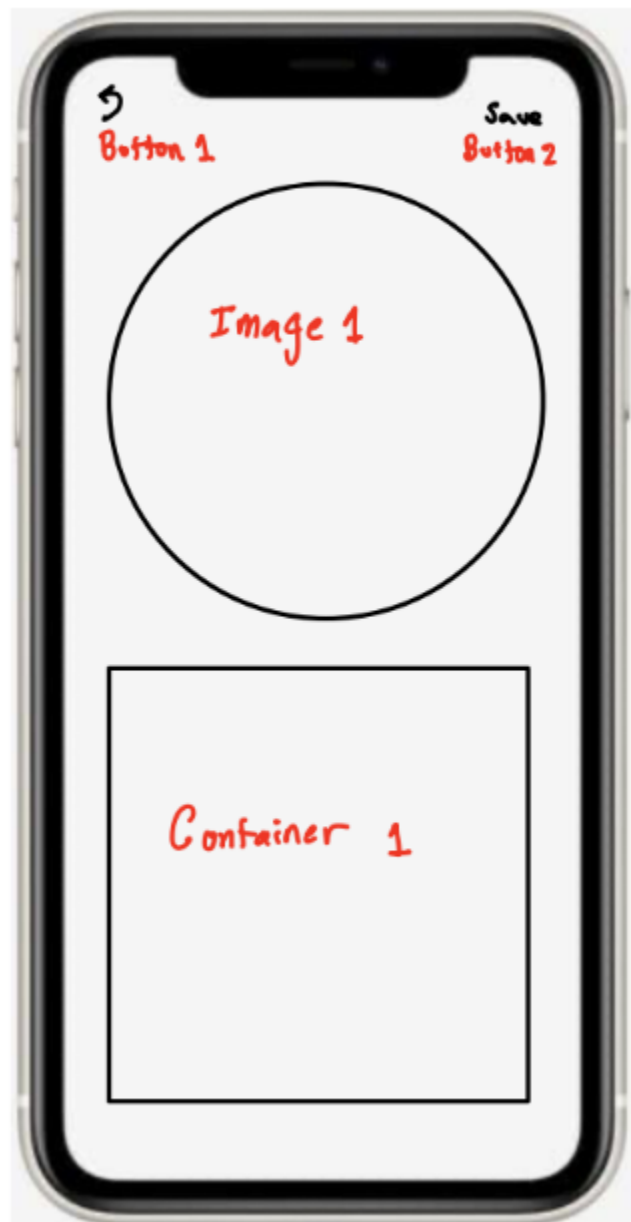
5.2.1.5.1.1. Account settings

5.2.1.5.1.1.1. Button 1: Username

- 5.2.1.5.1.1.1.1. The GUI shall display the username button
- 5.2.1.5.1.1.2. Button 2: Email
 - 5.2.1.5.1.1.2.1. The GUI shall display the email button
- 5.2.1.5.1.1.3. Button 3: Profile Picture
 - 5.2.1.5.1.1.3.1. The GUI shall display the profile picture button
- 5.2.1.5.1.1.4. Dropdown 1: Linked Accounts
 - 5.2.1.5.1.1.4.1. The GUI shall display the linked accounts button
 - 5.2.1.5.1.1.4.1.1. Text 1: Google Link
 - 5.2.1.5.1.1.4.1.2. Text 2: Notion Link
- 5.2.1.5.1.1.5. Button 4: Private Account
 - 5.2.1.5.1.1.5.1. The GUI shall display the private accounts button
- 5.2.1.5.1.2. Appearance Settings
 - 5.2.1.5.1.2.1. Button 5: Theme mode
 - 5.2.1.5.1.2.1.1. The GUI shall display the light/dark mode button
 - 5.2.1.5.1.2.2. Slider 1: Size of the tasks
 - 5.2.1.5.1.2.2.1. The GUI shall display the size of tasks button
- 5.2.1.5.1.3. Button 6: Save button
 - 5.2.1.5.1.3.1. The GUI shall display the save button
- 5.2.1.5.2. Label Ten: The GUI shall display the control center buttons (shown in figure 1)

5.2.1.6. Upload new profile picture screen

Figure 5



5.2.1.7. Uploading Profile Picture Screen(shown in figure 5) will allow the user to change their profile picture

5.2.1.7.1. Button 1: Back button

5.2.1.7.1.1. The GUI shall display the back button

5.2.1.7.2. Button 2: Save button

5.2.1.7.2.1. The GUI shall display the save button

5.2.1.7.3. Image 1: Current Selected Profile Picture

5.2.1.7.3.1. The GUI shall display the currently selected profile picture

5.2.1.7.4. Conatainer 1: Device Photos

5.2.1.7.4.1. The GUI shall display the device photos of the user

5.2.1.8. Interactions screen

Figure 6



5.2.1.8.1. The Interactions screen (shown in figure 6) shall display all recent activities with other users

5.2.1.8.1.1. Label 1: Interactions Label

5.2.1.8.1.1.1. The GUI shall display interactions label

5.2.1.8.1.2. Text Field 1: Search bar

- 5.2.1.8.1.2.1. The GUI shall display a search bar
- 5.2.1.8.1.3. Label 2: Recent Activity Label
 - 5.2.1.8.1.3.1. The GUI shall display recent activity label

5.2.1.9. Search screen

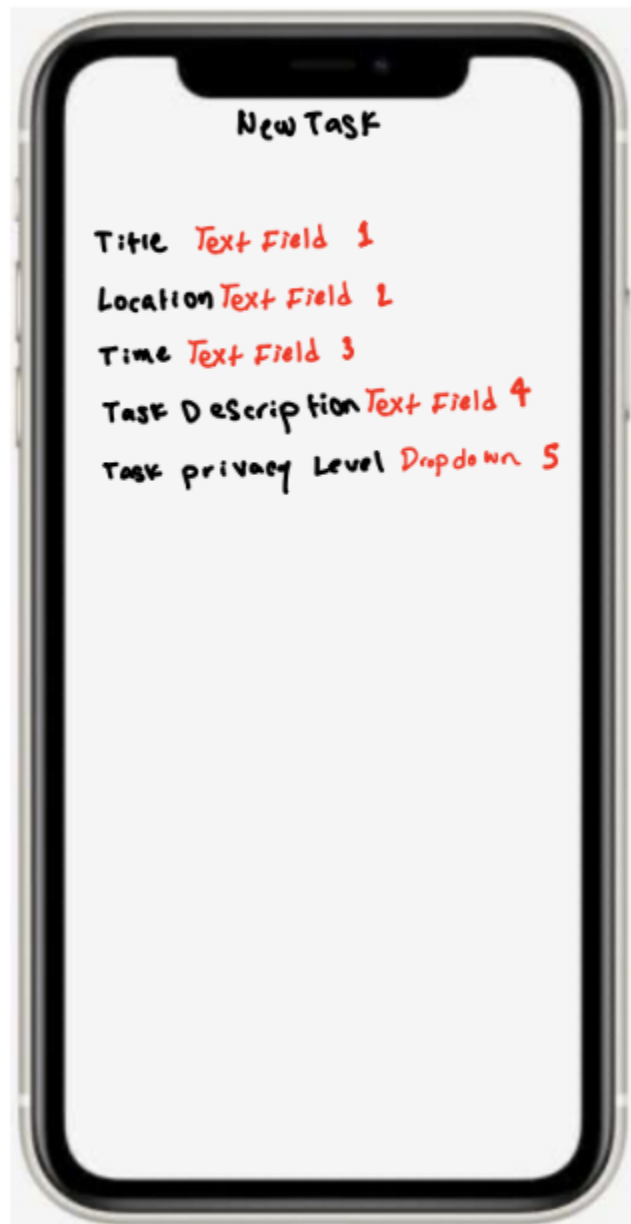
Figure 7



- 5.2.1.9.1. The search page (Figure 7) shall allow the user to search for tasks or other users
 - 5.2.1.9.1.1. Text Field 1: Search Bar
 - 5.2.1.9.1.1.1. The GUI shall display the search bar text field
 - 5.2.1.9.1.2. Button 2: Filter Button
 - 5.2.1.9.1.2.1. The GUI shall display the filter dropdown
 - 5.2.1.9.1.3. Label 3: Results of Search
 - 5.2.1.9.1.3.1. The GUI shall display the results of search labels
 - 5.2.1.9.1.4. Keyboard 4: Keyboard
 - 5.2.1.9.1.4.1. The GUI shall display the keyboard

5.2.1.10. New tasks screen

Figure 8



5.2.1.10.1. The New Tasks Page (Figure 8) shall allow the user to make a new task

5.2.1.10.1.1. Text Field 1: Task Name Text Field

5.2.1.10.1.1.1. The GUI shall display the task name text field

- 5.2.1.10.1.2. Text Field 2: Task Location Text Field
 - 5.2.1.10.1.2.1. The GUI shall display the task location text field
- 5.2.1.10.1.3. Text Field 3: Task Time Text Field
 - 5.2.1.10.1.3.1. The GUI shall display the task time text field
- 5.2.1.10.1.4. Text Field 4: Task Description Text Field
 - 5.2.1.10.1.4.1. The GUI shall display the task description text field
- 5.2.1.10.1.5. Dropdown 5: Task Privacy Level Dropdown
 - 5.2.1.10.1.5.1. The GUI shall display the privacy level dropdown
 - 5.2.1.10.1.5.1.1. Public
 - 5.2.1.10.1.5.1.2. Friends
 - 5.2.1.10.1.5.1.3. Groups
 - 5.2.1.10.1.5.1.4. Private

5.2.1.11. All Chats Screen

Figure 9



5.2.1.11.1. The All Chats Screen (Figure 9) shall allow the user to see all of their direct messages

5.2.1.11.1.1. Text 1: Screen name

5.2.1.11.1.1.1. The GUI shall display the name of the screen

5.2.1.11.1.2. Image 1: User profile picture

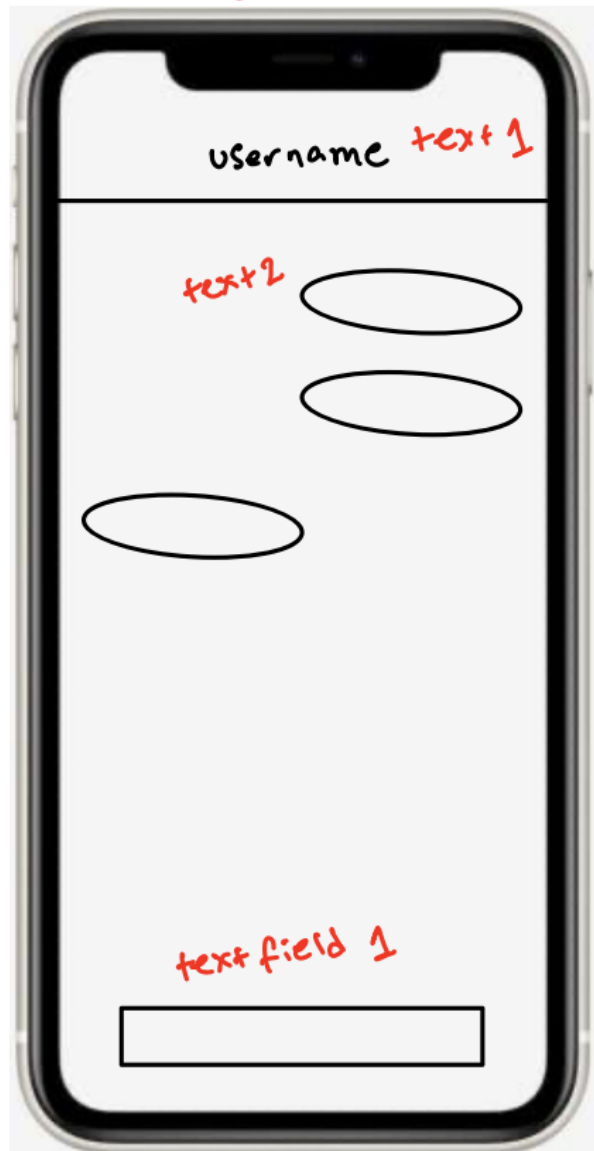
5.2.1.11.1.2.1. The GUI shall display the profile picture of the user being messaged

5.2.1.11.1.3. Text 2: Message information

5.2.1.11.1.3.1. The GUI shall display a preview of the messages

5.2.1.12. Chat Screen

Figure 10



5.2.1.12.1. The Chat Screen (figure 10) shall allow the user to direct message another user

5.2.1.12.1.1. Text 1: Username of the user being messaged

5.2.1.12.1.1.1. The GUI shall display the username of the user being messaged

5.2.1.12.1.2. Text 2: Message from users

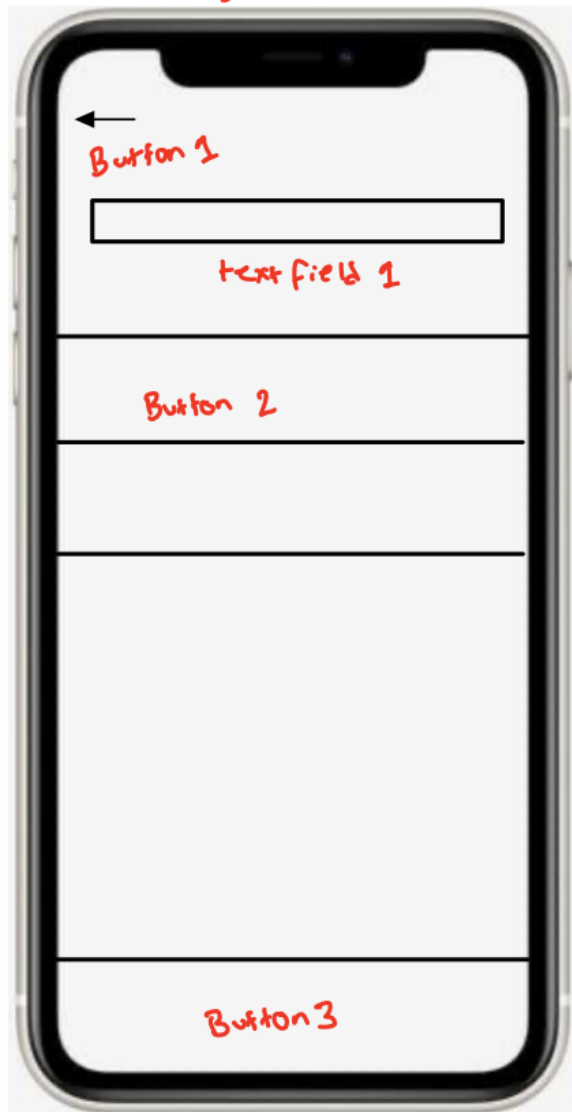
5.2.1.12.1.2.1. The GUI shall display the messages between users

5.2.1.12.1.3. Text Field 1: Text field allowing the user to type

5.2.1.12.1.3.1. The GUI shall allow the user to type in messages to be sent

5.2.1.13. **Create Group Chat Screen**

Figure 11



5.2.1.13.1. The Create Chat Screen (figure 11) shall allow the user to create a direct message to another user

5.2.1.13.1.1. Button 1: Back button

5.2.1.13.1.1.1. The GUI shall allow the user to go back to the other screen

5.2.1.13.1.2. Text Field 1: Search Bar

- 5.2.1.13.1.2.1. The GUI shall allow the user to search for a user to start messaging
- 5.2.1.13.1.3. Button 2: Search Result
 - 5.2.1.13.1.3.1. The GUI shall display the users that result from the search
- 5.2.1.13.1.4. Button 3: Create Chat
 - 5.2.1.13.1.4.1. The GUI shall allow the user to make a direct message with another user

6. OTHER REQUIREMENTS

6.1. *Device Permissions*

- 6.1.1. Software shall request access of smart device photos
- 6.1.2. Software shall request access of smart device location
- 6.1.3. Software shall request access of smart device notifications
- 6.1.4. Software shall access date and time from smart device

6.2. *Privacy Compliance*

- 6.2.1. Software shall adhere to apple and android privacy terms of service of applications

6.3. *Language Compliance*

- 6.3.1. Software shall only be legible in english

7. LATEST UPDATE

- 7.1.1. 12/13/22