

Screen Sketches

Team 2_UG_4

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Actors

1. General Users: Have the privilege to:

- Create a group (makes user Owner for that group)
- Join a group
- View and search public groups
- Change profile
- Post/chat in groups
- Share files in groups
- View schedule
- View group members

2. Owner: Have the same privileges as viewers in addition to (in the group they created):

- Edit created group
- Rename the group
- Delete the group
- Delete files/posts/chats in the group
- Change ownership
- Ban users

3. Administrators: Have the Owner privileges in all groups:

- Viewing any group
- Delete user accounts
- Reset passwords

Non-Functional Requirements:

- The application should function as an Android App
- The user should not have to wait for longer than 0.5 seconds for any UI, element to respond
- The application must support a minimum of 5 active users
- The user should not have to wait more than 5 seconds to create/join a group
- The application should be written in a way to scale up the number of users
- Groups should appear in the public search in less than 5 seconds
- Users should be able to join up to 10 groups at a time
- Files should be able to load files in at least 5 seconds
- Groups should be able to support 10

Data Model (Tables and Fields):

//Demo 3

Users

- User ID (Primary Key)
- Username
- Password
- Email
- Location
- Admin boolean

Groups

- Group ID (Primary Key)
- Title
- Message
- Public/private

Members

- Member ID (Primary Key)
- Group ID (Foreign Key)
- User ID (Foreign Key)
- Permission ID (Foreign Key)

Permissions

- Permission ID (Primary Key)
- Access Level

//Demo 4

Chat Message

- Chat ID (Primary Key)
- Group ID (Foreign Key)
- User ID (Foreign Key)
- Content
- Timestamp

File Save

- ID (Primary Key)
- Group ID (Foreign Key)
- User ID (Foreign Key)
- File
- Timestamp

Group Events

- Group Event ID (Primary Key)
- Member ID (Foreign Key)
- Group ID (Foreign Key)
- Time
- Message

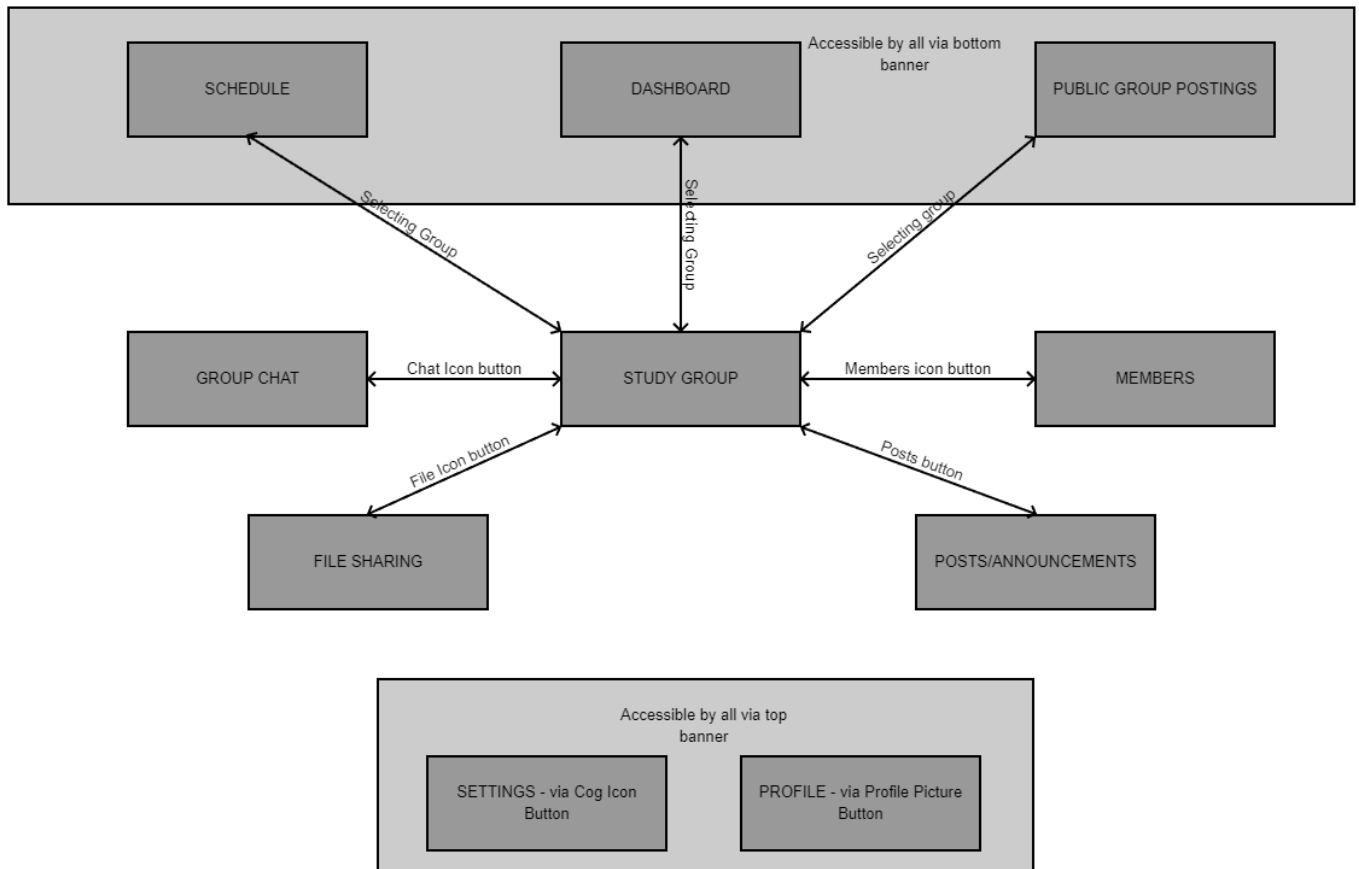
Personal Events

- Personal Event ID (Primary Key)
- Member ID (Foreign Key)
- Time
- Message

Announcement

- Announcement ID (Primary Key)
- Member ID (Foreign Key)
- Time
- Message

Screen Flow diagram:

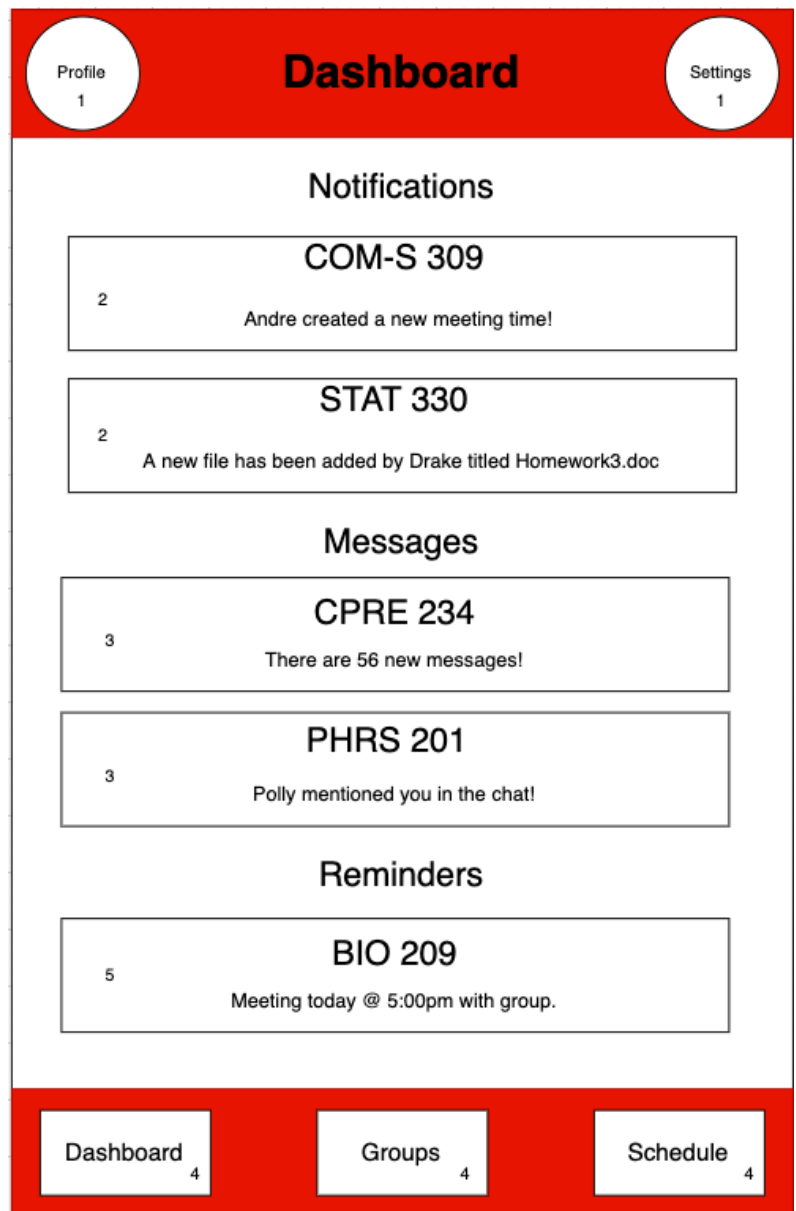


Screen Sketches:
Dashboard Sketch
Brady Heath

1. The profile and setting buttons take the user to their personal profile and personal settings. This makes it easier for the user to navigate to those with ease wherever they are.
2. There is a notification section so the user can see what is new when they open the app. These show the different groups the user is in and if there isn't anything new the group won't show up. Once the group is entered the notification for that group will disappear.
3. Messages notifications show up to show the user what different messages the groups have or if the user has been mentioned in a group chat. These notifications will clear when the user opens the group chat.
4. There are three buttons that will be at the bottom of the app which are Dashboard, Groups, and Schedule. These are easy shortcuts to each different respective pages of the ap

5. There are reminders for different events that are on the user's Schedule page. If there is a meeting or assignment due that is on the schedule it will show up here for an easy reminder instead of having to go to the page.

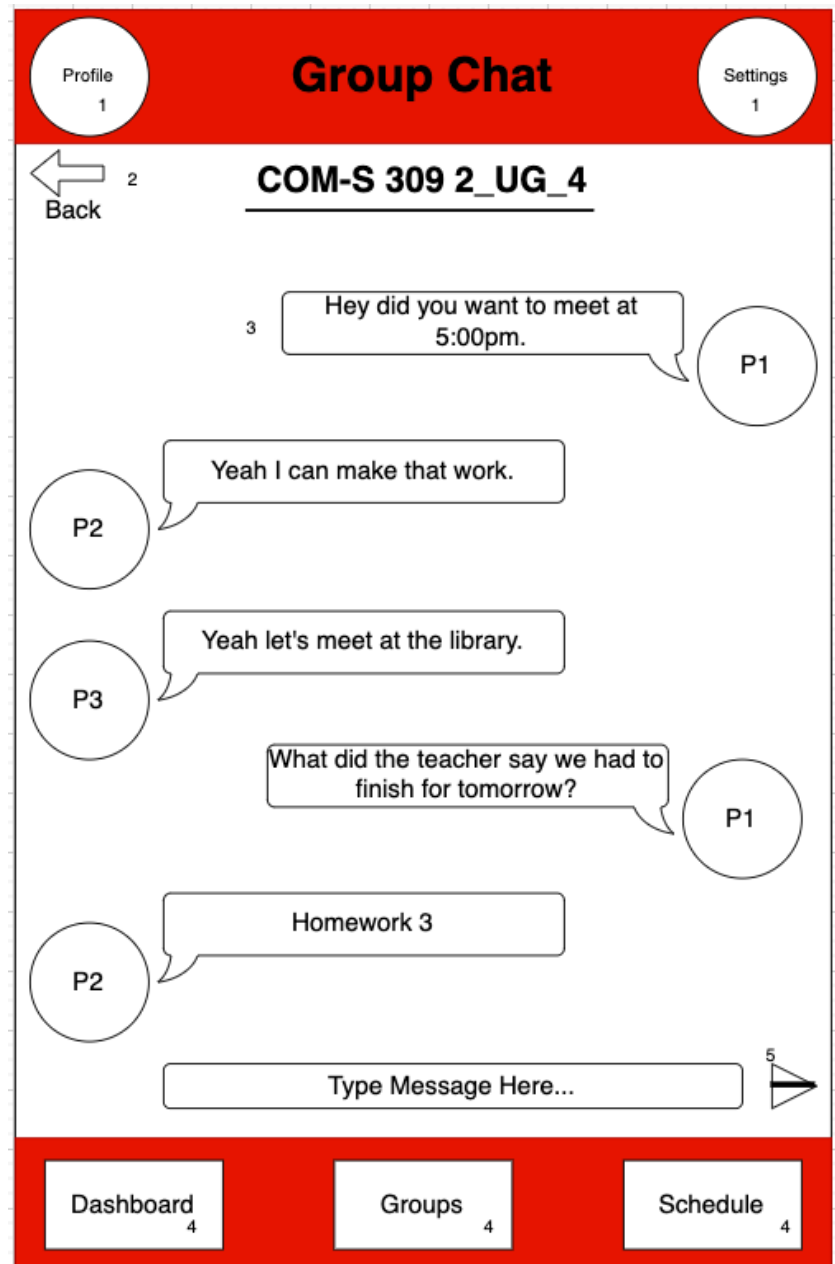
This is the main dashboard page. This page will show different messages, reminders, and notifications. This page is meant to help make the app easier to use and understand as well as reminding the users of important things.



Group Chat Sketch

Brady Heath

1. The profile and setting buttons take the user to their personal profile and personal settings. This makes it easier for the user to navigate to those with ease wherever they are.
2. There is a back button to get access to the rest of the group page or dashboard. This makes it easier for the user to navigate the pages.
3. Messages will show up here and the message bubbles will point to the users who typed the message. The messages are saved for a select period of time before being deleted allowing users to check them at their own time.
4. There are three buttons that will be at the bottom of the app which are Dashboard, Groups, and Schedule. These are easy shortcuts to each different respective pages of the app.



5. The message input and submit button will be located toward the bottom. Once the user clicks type message here they will be given access to type using their device's keyboard and then click the submit button to send the message for the other users to read.

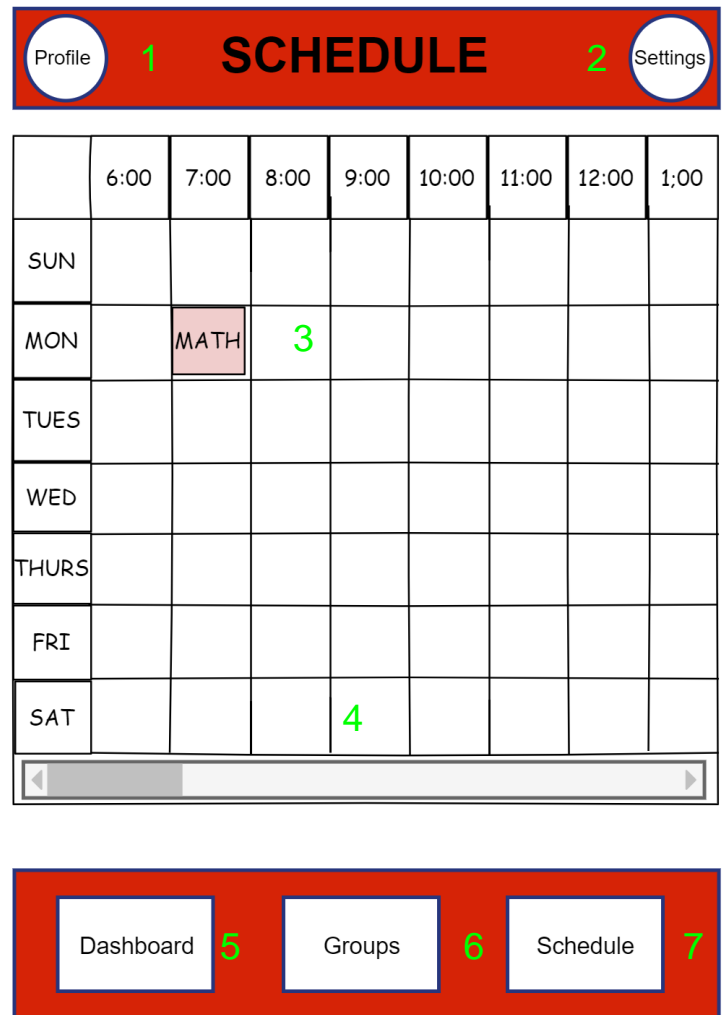
This sketch is the group chats page. This page will allow users to send messages to their groups for other users to see and read. This helps keep communication between users all on one app instead of having to use multiple apps.

Ryan Sand - Schedule

The schedule page is a screen that is always accessible from the bottom bar. It's purpose is for the user to be able to track when each of their groups are meeting and to add their own events.

1. The profile button on the top left is always available and will direct the user to their personal profile screen.
2. Similarly, the settings button on the top right will bring up the settings screen so the user can customize their app and experience.
3. The main component of the schedule page, the calendar grid is used to visually represent the different events that the user has scheduled. These could be group scheduled events or ones that the user makes themselves by tapping on the box on the grid where they want to add one.

4. The grid is large to help the user read it, but this means that a scroll bar will need to be added to allow the full calendar to be viewed.
5. The Dashboard button will always be available and will direct the user to the main page of the app.
6. The Groups tab is also on the bottom bar and brings the user to their personalized groups page.
7. The Schedule button leads back to this page. It is accessible from anywhere using the bottom bar.



Ryan Sand - Profile

The profile page is the screen that is used to allow the user to change and input information about themselves and their account. It is always available from the upper left side of the banner by tapping the Profile button.

1. The profile button leads to this screen, and it is always available for the user to access quickly on the top bar.
2. The settings button on the top right will bring up the settings screen so the user can customize their app and experience.
3. The Profile Pic circle will show the user their current profile picture. Tapping on the picture will allow them to choose a photo from their device to use as a new profile picture.
4. The First and Last Name and Location and Email text fields are used to give the user a space to input that data.

This information is used to identify the user both internally and in the chat. The location will be used to determine which groups are nearby.

5. The Change Password section is used for modifying the current password that the user has. This will likely be more robust in the future with more authentication, but for the sketch I simply added a place to add your password that you would like to change to.
6. The Dashboard button will always be available and will direct the user to the main page of the app.
7. The Groups tab is also on the bottom bar and brings the user to their personalized groups page where they can view and chat in groups they have joined
8. The Schedule button leads to the Schedule page, which is responsible for visualizing the events that a user has. It is accessible from anywhere using the bottom bar.
9. The Use Location for search is a privacy toggle that allows users to say whether they want to include their location on their profile publicly for group searching purposes.

Andy Bruder - Public Groups

This page is used for a user to be able to look for groups to join. These groups are all public and are able to be searched for based on different keywords and sorted based on their qualities.

1) The top banner contains buttons that direct a user to the profile page or the setting page

2) The search bar allows users to look for new groups by keyword

3) The sort box allows users to sort the shown groups by different categories (alphabetical, number of members, etc.)

4) This area will show the group name for a group in the results

5) This button will send a request to join a group from the search results

6) This area will display the course or subject that a group is to be covering

7) This area will display the

number of members currently in a shown group

8) This button will show the dates and times that a group meets when clicked

9) The bottom banner contains buttons that will return the user to the dashboard, the public groups page (current page), and the user's schedule page

Andy Bruder - File Sharing

Profile (1) Settings

(2) GROUP NAME - COURSE

(3) Select file/Change file Selected file name (4)

☐ Upload or replace file with chosen file

(5) ☐ View file selected below

☐ Delete file (requires group editor status or file owner status)

(6)

FILE DIRECTORY SHOWING HEIRARCHIES AND FOLDERS
FOR GROUP - Select file/folder to interact with

(7) ACTION (Upload/View) (8) Cancel

(9) Dashboard Public Groups Schedule

This is a page that is located within an individual group and is specific for that group. It allows members of a group to share and view files with other members.

1) The top banner contains buttons that direct a user to the profile page or the setting page

2) This area will show the group name and the course/subject that it is covering

3) This button will open up a window where the user can navigate to a file they want to upload

4) This area will show the selected file's name

5) These checkboxes will allow the user to specify the type of action they want to perform on this page (upload/replace, view/open, or delete)

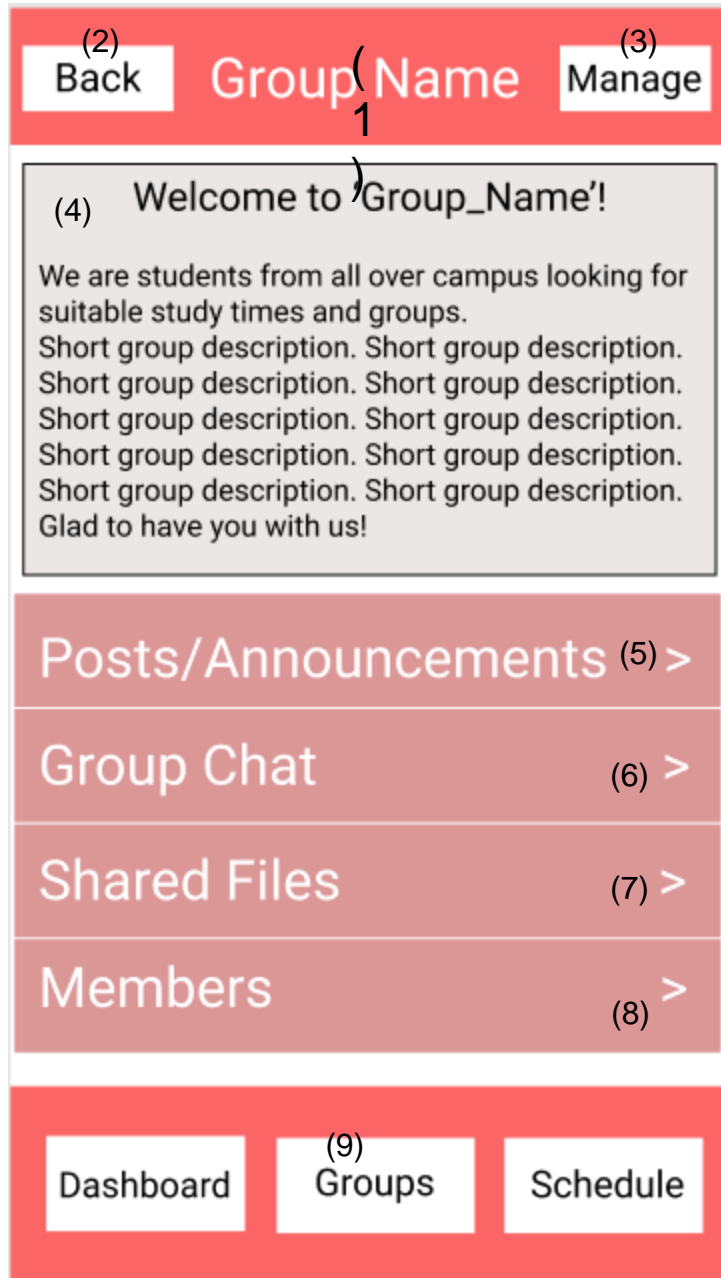
6) This is the area where the file directory will be shown. The user can select where to open, delete,

or upload the file depending on their selected action

7) This is the button that will perform the action that the user has selected in (5)

8) This button will cancel the action that a user has selected in (5) and return them to the group home page

9) The bottom banner contains buttons that will return the user to the dashboard, the public groups page (current page), and the user's schedule page



Omar Muhammetkulyyev - Study Group Screen

This is the main page of a study group. It contains a short description of the group and serves as the root page of other group activities like posts, chat, shared files and members.

1. This area contains the Group Name.

2. The back button returns the user to where it came from, usually a dashboard or public group search screen.

3. Manage button is visible to only Owner/Admins and allows to change the description or any new functionalities to be added.

4. This field contains a short description of the group and what it is about.

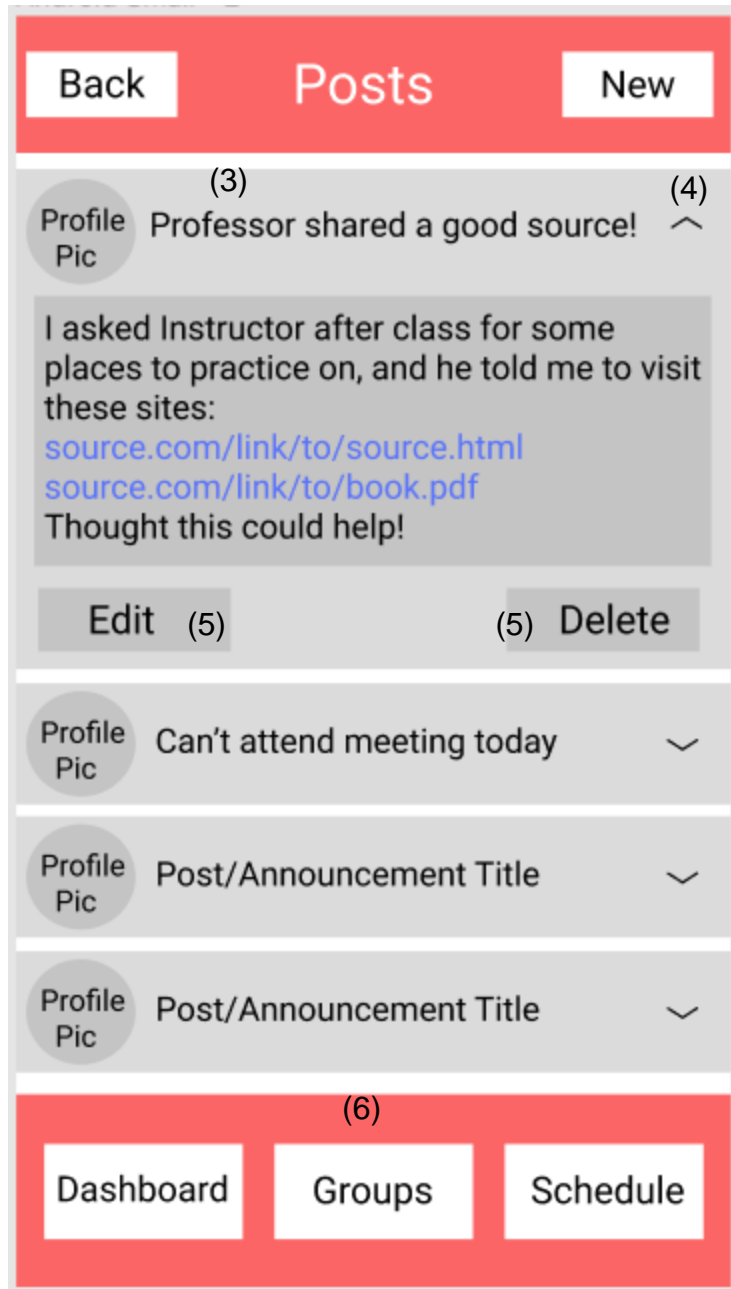
5. The button takes the user to the posts/announcements page where important information about the group might be posted.

6. Group chat button redirects to the group chat for general purpose communication.

7. The button is used to access the shared files that members share within the group.

8. Members screen is accessible through this button where owners/admins can manage the group.

9. The bottom banner contains the quick accesses to the Dashboard, Groups page and the user's Schedule page.



[Omar Muhammetkulyyev](#) - Posts Screen

The posts (also can be referred to as 'announcements') page is where members can share and view useful information within the group. This will be the information that would otherwise be lost if shared in the group chat.

1. The back button returns the user to where it accessed the posts page from, usually Study Group page.

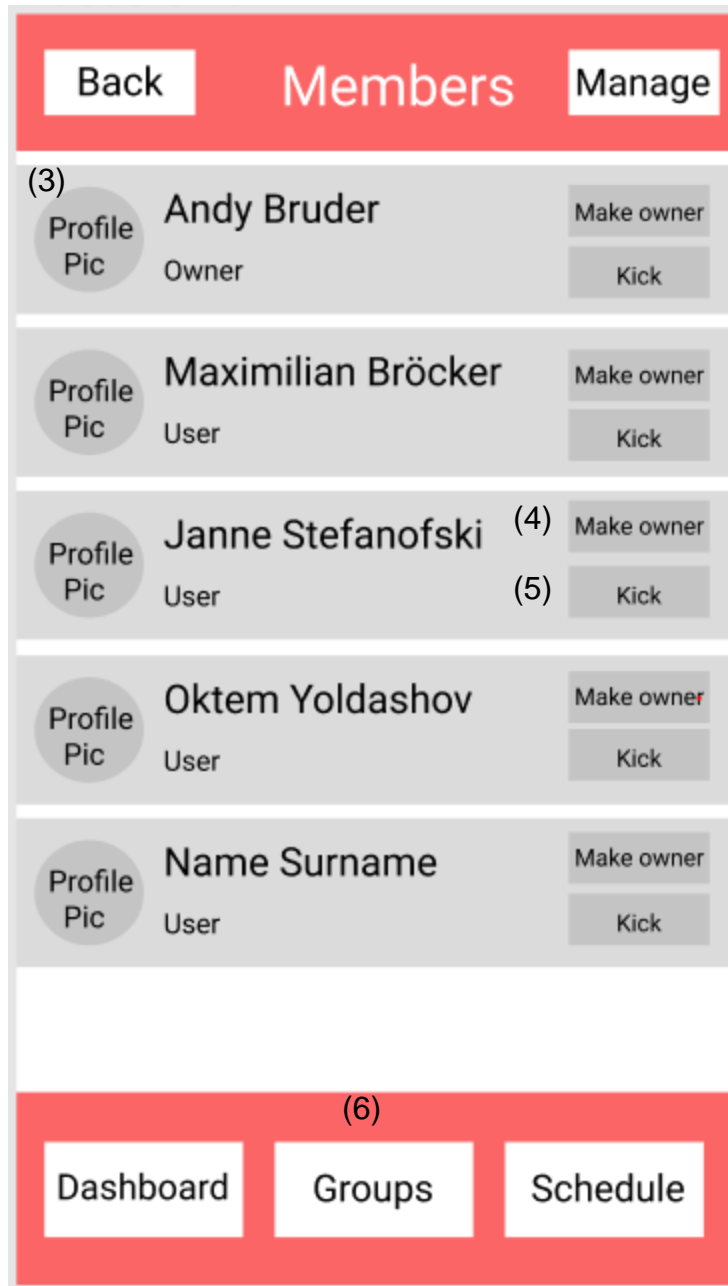
2. The button allows the user to create a post with title and description, like shown below.

3. This is how an ordinary post/announcement will look like. Title and description along with the profile picture of the user who posted it.

4. The 'drop-down' button allows the user to fold and unfold the posts to view their descriptions.

5. These buttons allow the poster, owner of the group and admins to edit or delete the corresponding post/announcement.

6. The bottom banner always contains the quick access buttons: dashboard, public groups and the user's schedule.



[Omar Muhammetkulyyev](#) - Members Screen

The screen contains the list of members of the corresponding group and allows any member within the group to view them. However, owners and admins will have access to changing the owner of the group and kicking users from the group.

1. The back button takes the user to the main Study Group page.

2. The button is visible to only the owner of the group and admins of the app. When it's clicked, the 'editing' mode will be enabled to allow for change of the ownership of the group and ban of the user from the group. It is important to have the button to avoid accidental actions the member did not intend to do.

3. This area contains the profile picture, name and status of the member (owner/user) for general purpose viewing.

4. The button is available to only the owner of the group and admins of the app. When pressed, it transfers the ownership of the from previous owner to a new user.

5. Kick button allows owners and admins to ban the corresponding user from the study group.

6. The bottom banner contains some quick accesses to the Dashboard, Groups page and the user's Schedule page.