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Initialisation

Step 1.) Install Expo

Our StudentPeak application relies on a framework & platform called EXPO which allows us to build universal react applications which can be used on web and mobile devices.

To download expo:

https://docs.expo.dev/get-started/installation/

Step 2.) Install a simulator

Android emulator Download:

https://docs.expo.dev/workflow/android-studio-emulator/

IOS emulator Download:

https://docs.expo.dev/workflow/ios-simulator/

Step 3.)

Download ADB

https://www.howtogeek.com/125769/how-to-install-and-use-abd-the-android-debug-bridge-utility/

Step 4.)

Download Expo on a mobile device

Android: https://play.google.com/store/apps/details?id=host.exp.exponent&hl=en_GB&gl=US

IOS: https://apps.apple.com/us/app/expo-go/id982107779

Execution Instructions

1. Open up your command line and change the directory to the path where your code is located etc on windows “cd pathToCode”.

2. Then type “npm install” into the terminal to download the project dependency’s inside the code directory.

3. If you’re testing this project on a emulator device make sure the emulator is up and running before you execute the next command. Or, if you are using a physical device plug in your mobile device to your computer.

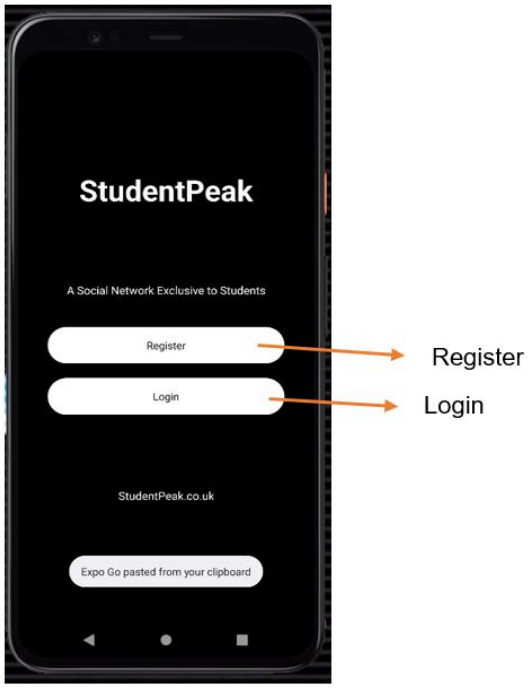
4. Now execute the command “npm start”.

5. Ensure no errors were present when attempting to execute npm start if there were try to fix the errors or, rerun the 1st and 4th step.

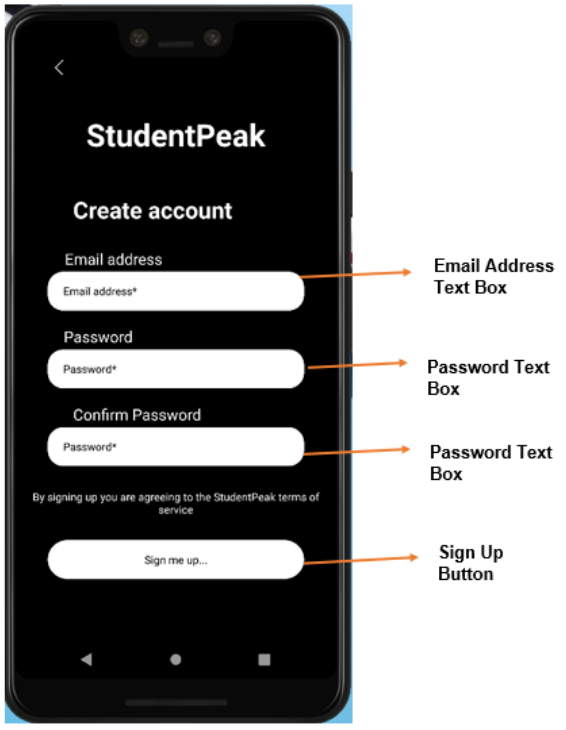
6. Then a new website called “http://localhost:19006/” should be loaded into your browser change the “6” to a “2”. So, the full website is “http://localhost:19002/”

7. The expo developer page should be loaded into your browser now, click the appropriate command for the device which you wish to execute this program on or, scan the QR on your phone

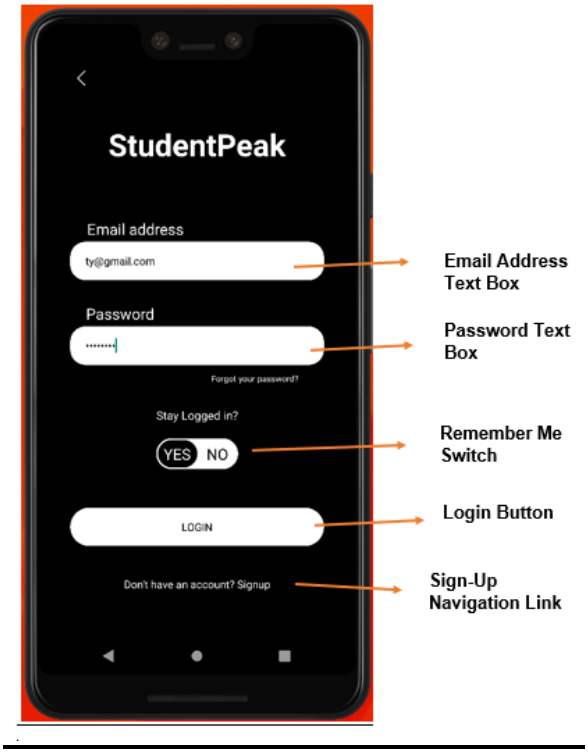
Welcome Screen

Screen	Description
	On the Welcome screen a user can either: 1. **Register** to create a new account on the application. 2. **Login** into the application if the user has pre-existing valid user account information.

Register Screen

Screen	Description
	On the register screen, the user can create an account to use to login into the app. On the register screen, the user is prompted to fill out a form and enter some credential information being a username and password into the corresponding text boxes fields. Once the user clicks the “Sign me up …” the user’s inputted credentials are then validated against certain criterias the application has for an email and password field. If this validation process is successfully the user’s account will then be created with the inputted credentials.

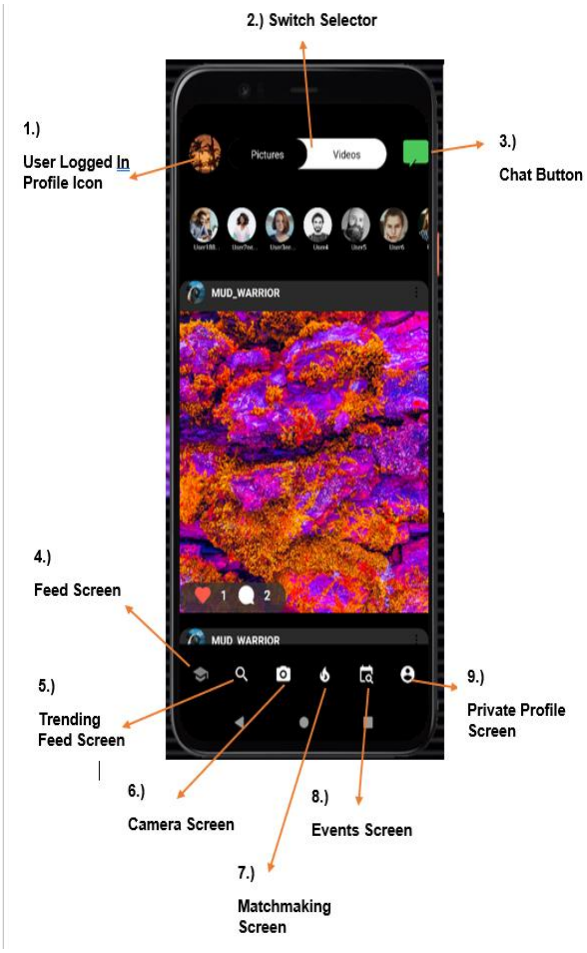
Login Screen

Screen	Description
	On the login screen the user can enter their credentials being an email address and password into the corresponding text boxes for these fields. Once the login button is clicked these details are then authenticated. If the inputted credentials are valid, the user is logged into the application. However, if these details are invalid the user is prompted with an error message. The “Remember Me Switch” allows the user to save their login credentials if valid which avoids the user having to login into the application every time the app is closed. The “Sign-Up” button at the bottom of the screen navigates the user to the sign-up page if the user wishes to create a new account whilst they are on the login page.

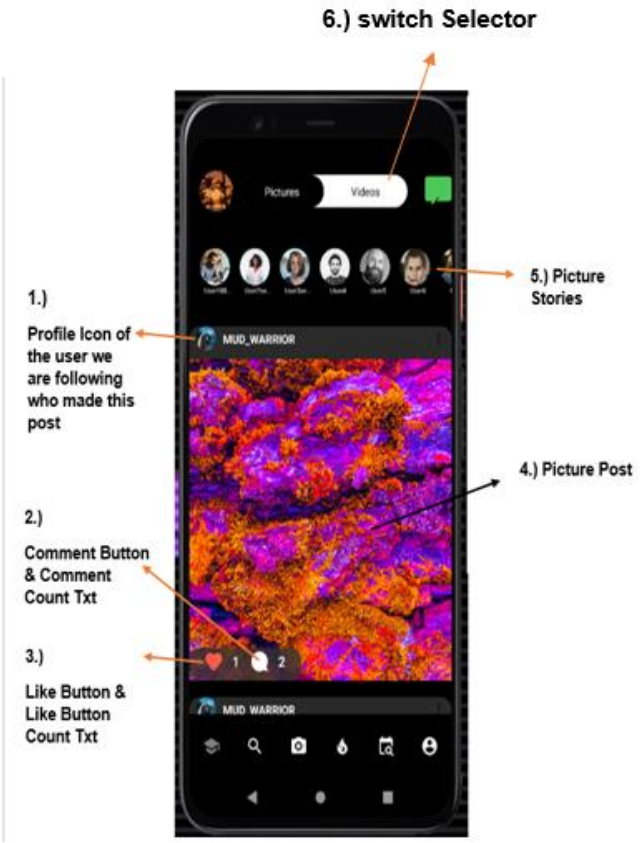
Feed Screen

The **"Feed Screen"** is the main screen the user is redirected to once they have successfully logged in. Within this screen a user can view pictures / video posts made by the users they are following by controlling the switch selector on the screen to view picture posts or, video posts.

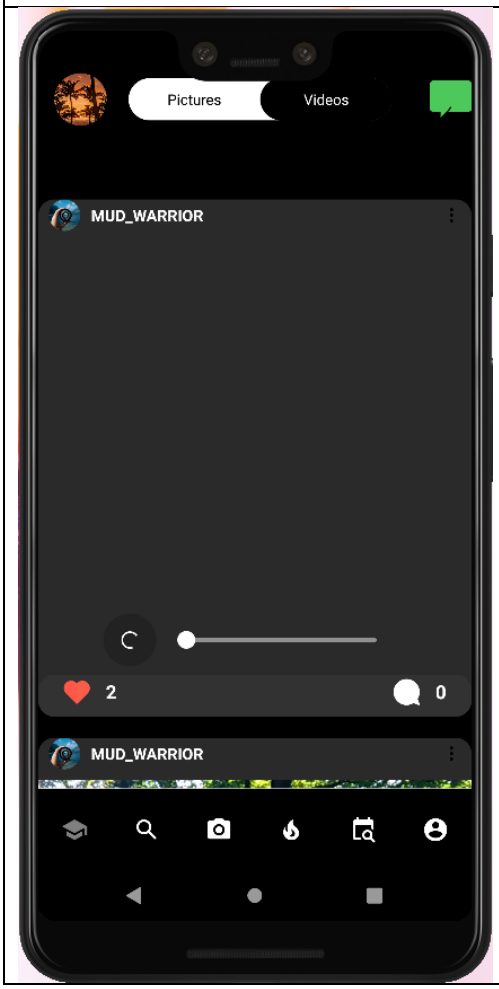
Disclaimer: if you're not following anyone this page will be empty.

Screen	**Description**
	Below will be the description of the features on this screen labelled 1-3: 1. **"Private profile Icon"** – the image in this icon will correlate to the profile image of the user logged in – if this icon is clicked it will redirect the user to their **"Personal Profile Screen"** 2. **"Switch Selector"** – this allows the user to transition between the picture / video feed screen as the selector controls which feed screen is currently visible on display. 3. **"Chat Button"** – this button redirects the user to the message inbox where chats and conversations can be made with other users on the app. The labels on the diagram, labelled 4-9 on the bottom tab navigation of screen each allow the user to navigate to corresponding screen which the icon correlates to once clicked. 4. **"Feed Screen"** - displays pictures /video posts made by users you're following. 5. **"Trending Screen"** – displays posts your friends have liked, viral posts/tags on the app and trending stories. This page also links to other pages such as the explore page which you can search for other users and search for posts by their tag. 6. **"Camera Screen"** - allows a user to upload a picture/video which is then publicly visible on that user's profile. 7. **"Matchmaking Screen"** - click here to start matching up with other users. 8. **"Events Screen"** - click here to view events happening near you. 9. **"Private Profile Screen"** – click here to view your personal profile.

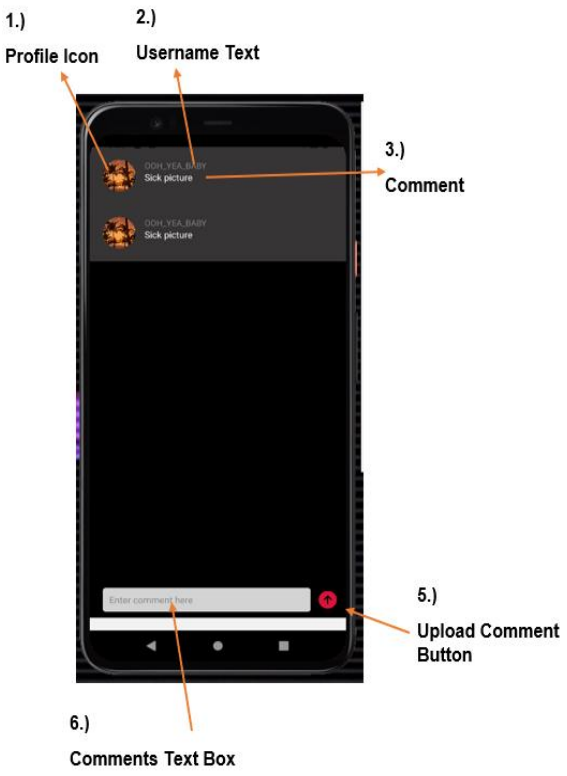
Picture Feed

Screen	Description
	This is the "**Picture Feed Screen**" which is nested on the "**Feed Screen**". 1.) The profile icon tab is a component which displays the profile image, username of the user which the post is attached to (author). If the user clicks any part of these components the user will then be navigated to the profile page correlating to who the profile icon tab was about. 2.) The comment button and comments count components once clicked redirects the user to the comments display page for the specific post which the event was triggered for. 3.) The like button and likes count components once clicked redirects the user to the likes display page for the specific post which the event was triggered for. 4.) Is the photo media file which a user we are following has uploaded to their profile in the recent X amount of time. 5.) This is the stories display which consists of; the profile icons, usernames of the user logged in friends which have made an upload to their story in the recent X amount of time. 6.) The switch selector on the **"Feed Screen"** controls whether this screen or the **"Video Feed Screen"** is visible. Once the switch selector is set on the "Pictures" option the "**Picture Feed Screen**" is then made visible on the **"Feed Screen".**

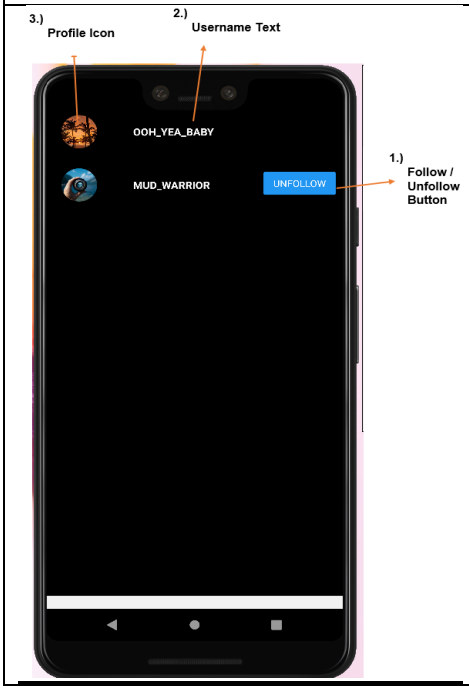
Video Feed

Screen	Description
	The Video Feed Screen has the same concept as the “Picture Feed Screen” however, this screen displays the alternative being videos to the “Feed Screen”.

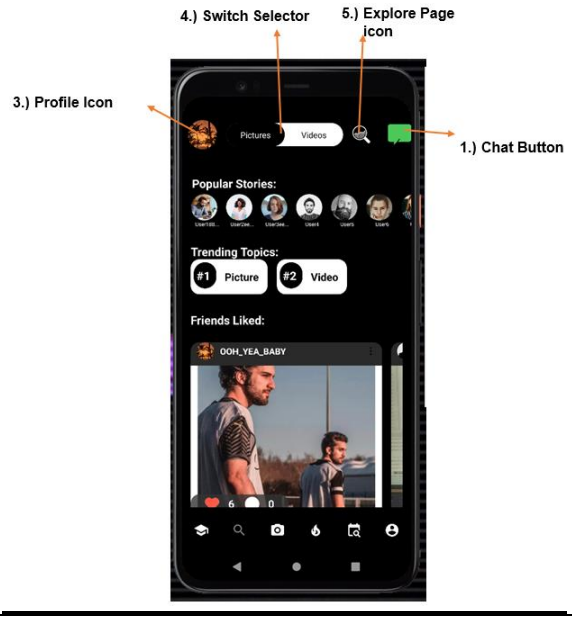
Comments Display Screen

Screen	Description
	This is the “Comments Display Screen” which is triggered by clicking on the comment button/ count text on a specific post. This screen then displays the comments made correlated to this specific post. 1.) The profile icon is a component which displays the profile image of the user who posted that specific comment. If clicked on this will navigate the user to the profile page the user who made the comment correlates to. 2.) The username text is a component which displays the username of the user who posted that specific comment. If clicked on this will navigate the user to the profile page the user who made the comment correlates to. 3.) Is a text component which displays the comment made by the user which it correlates to. 4.) The comments text box is a component which is a text which captures the comment the user wants to make. 5.) The upload button is a component which uploads the text captured in step 4 into the database and adds it to the display if successful.

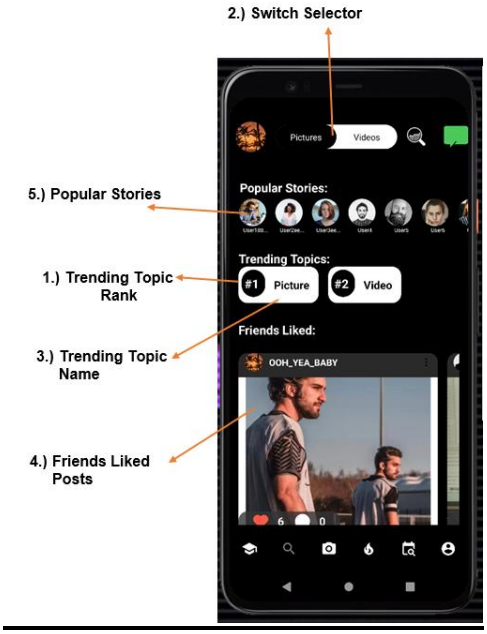
Likes Display Screen

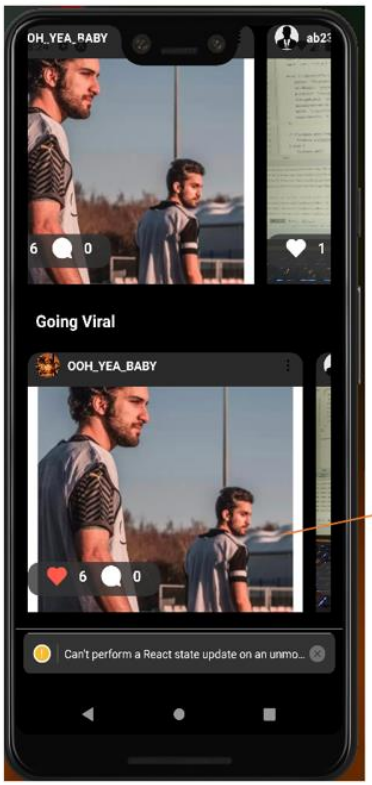
Screen	Description
	This is the “Likes Display Screen” which is triggered by clicking on the like button/ count text on a specific post. This screen then displays the likes made correlated to this specific post. 1.) The profile icon is a component which displays the profile image of users who have liked this specific post. If clicked on this will navigate the user to the profile page the component correlates to. 2.) The username text is a component which displays the username of users who have liked this specific post. If clicked on this will navigate the user to the profile page of the user, this component correlates to. 3.) The follow / unfollow button state is based on the following condition the user logged in has with the user this component correlates to.

Trending Feeds

Screen	Description
	The **"Trending Feed Screen"** displays popular The **"Trending Feed Screen"** has the same corresponding functionalities as the **"Feed Screen"** from the following components in both screens; being the Profile Icon in the top left of the screen, Switch Selector and the Chat Button in the top right corner of the screen. However, the icon labelled number 5, the "**Explore Page**" redirects the user to the explore page if the user clicks this icon.

Trending Pictures / Videos Feeds

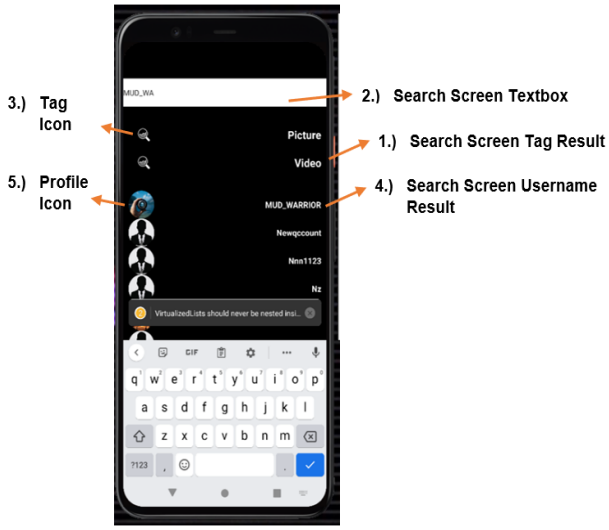
Screen	Description
	The "**Trending Picture/Video Feed**" both display different types of data but, in different formats being videos and pictures. 1.) Trending topic rank is a text component that displays the rank of the tag it's corresponding to. The value of this component is the ordered position/rank given for how popular this tag is, in terms of how many posts this tag when matched against other tags in the database. If this component is clicked the user is then redirected to the **"Search Screen Results".** Once the **"Search Screen Results"** is prompted this page will then populate data on its screen based on the tag which was clicked. 3.) Trending tag topic is a text component which displays the name of the tag it corresponds to. If this component is clicked the user is then redirected to the **"Search Screen Results".** Once the **"Search Screen Results"** is prompted this page which will then populate data on its screen based on the tag which was clicked. 4.) Friends Liked Posts displays all the posts that a user's friends have liked.



5.) Popular stories will display the most popular stories on the app for a specific media type depending on which screen is visible on the trending feed page.

6.) Going Viral Posts - displays all the viral posts (posts ordered by likes) on the app.

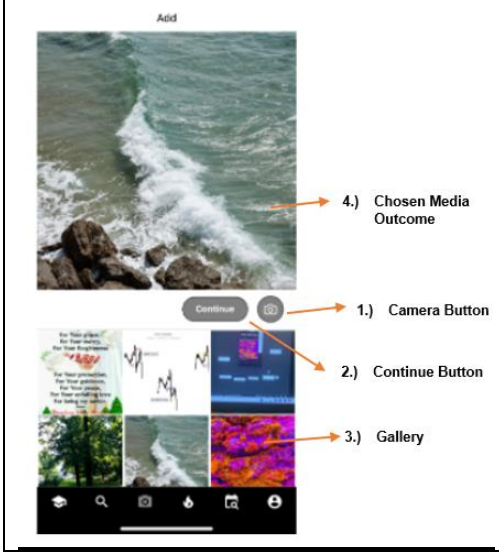
Search Screen

Screen	Description
	The **"Search Screen"** allows the user to search for posts by their postTag or, profiles by the accounts username within database. 1. Search Screen Tag Result – is a text component which corresponds to a postTag in the database which was retrieved as a potential match for the potential postTag the user may have been searching for inside the "Search Screen Textbox". 2. Search Screen Textbox – is an input textbox which allows the user to search for an account by username or, post by a postTag. 3. Tag Icon - is an icon which notifies the user, that the result retrieved on this row when querying the text inside of the "Search Screen Textbox" in the database resulted in a username. 4. Search Screen Username – is a text component which corresponds to a username in the database which was retrieved as a potential match for the potential username the user may have been searching for inside the "Search Screen Textbox". 5. Profile Icon - is an icon which notifies the user, that the result retrieved on this row when querying the text inside of "Search Screen Textbox" in the database resulted in a username. The image inside this icon also correlates to the profile image of the user the icon corresponds to.

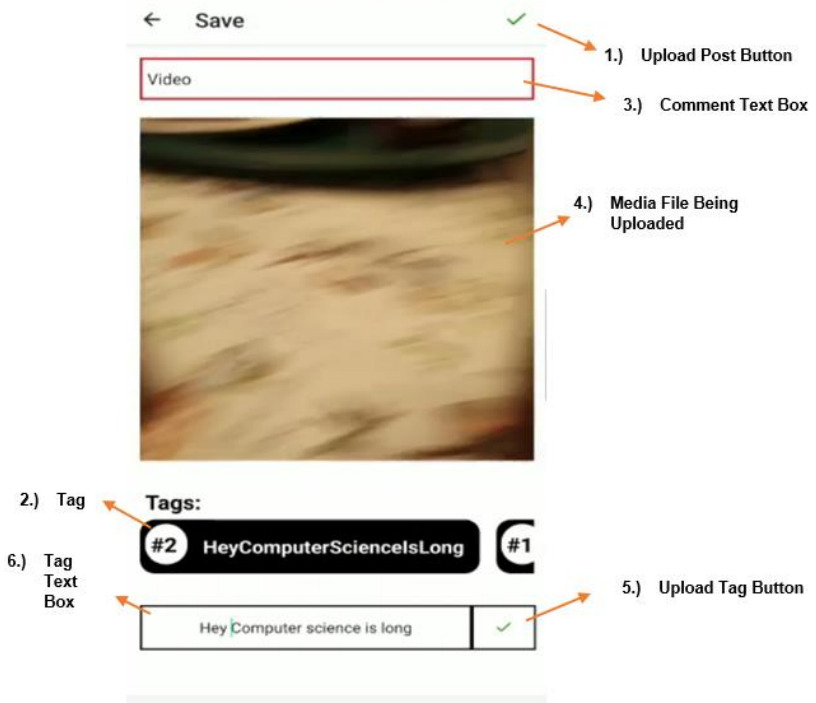
Search Screen Results

Screen	Description
	The **"Search Screen Post Result"** displays posts which relate to a corresponding postTag which this page was prompted to generate results for. 1. Search Screen Post Result – is a component which displays a miniature post as an object which was retrieved as a result of querying a specific postTag. Once this object is clicked on the user will be redirected to a screen called **"ViewPost"** which displays this post in full size.

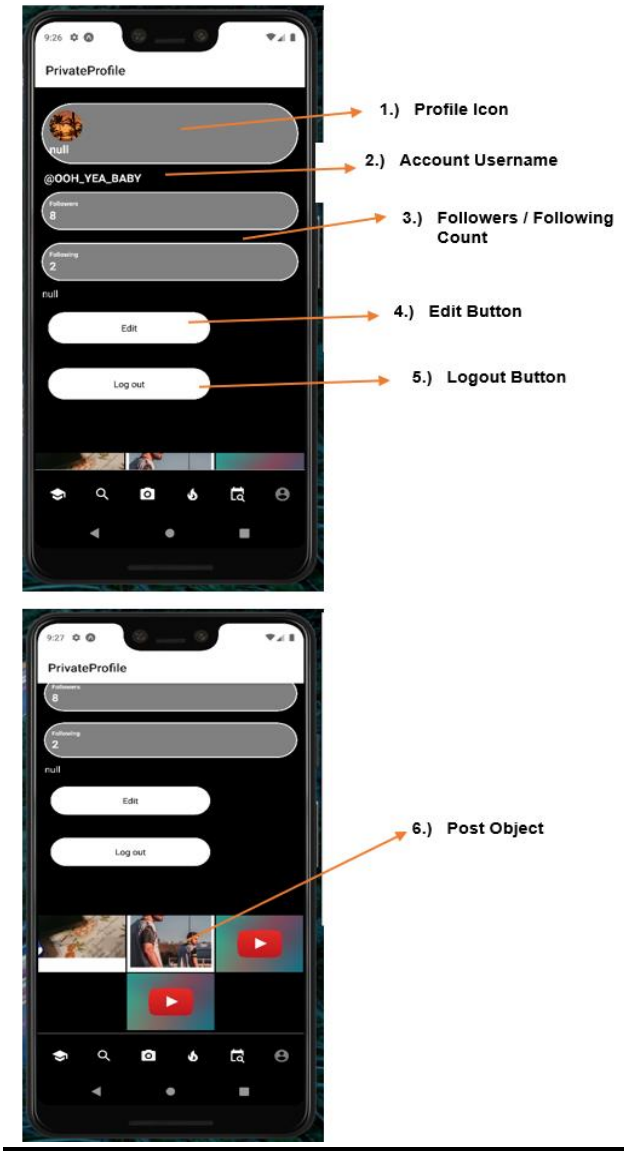
Camera Screen

Screen	Description
	The **"Camera Screen"** allows a user to upload a media file to their profile being a picture/video. 1. Camera Button – navigates the user to a camera screen whereby the user can use the camera on their device to take a picture or video. 2. The continue button forwards the users chosen media file to upload to the "Save Screen". 3. Gallery – allows the user to pick a media file from their files. 4. Chosen Media Outcome – is a video / picture component that displays the media file the user has chosen to upload.

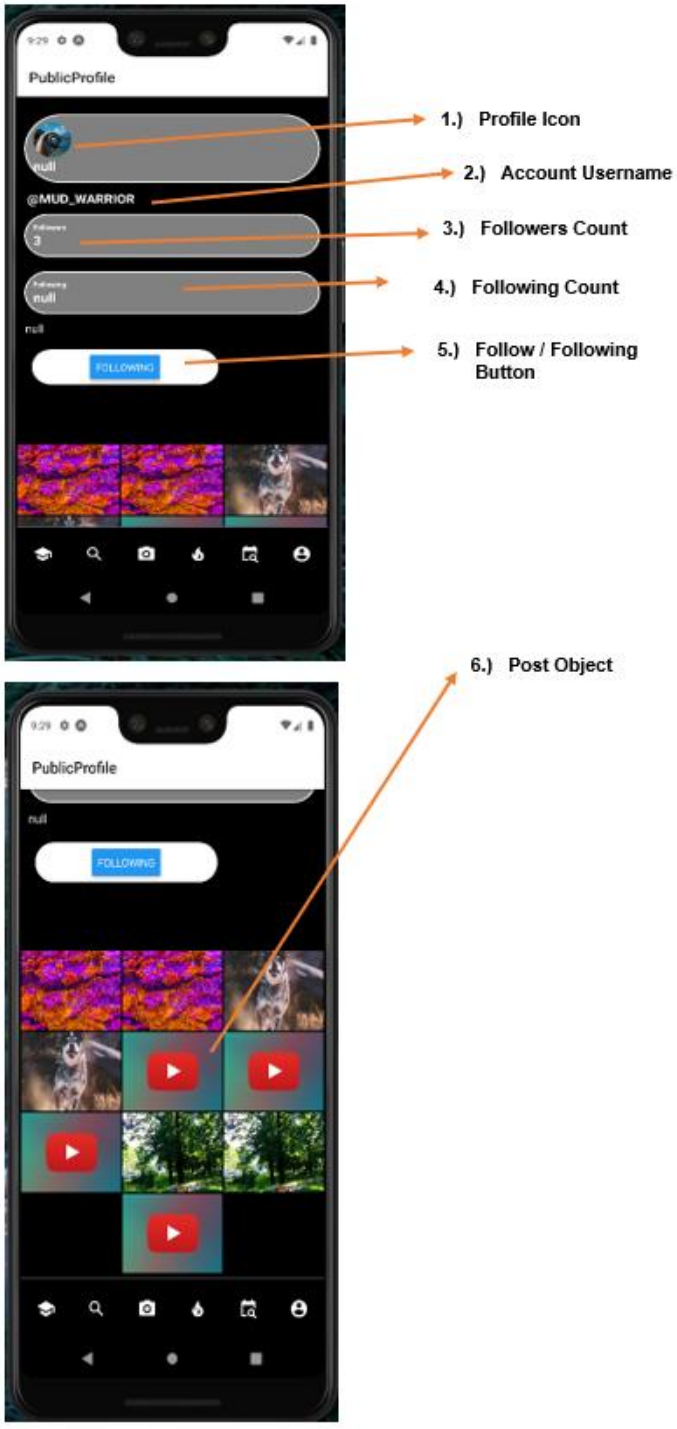
Save Screen

Screen	Description
	The **"Save Screen"** allows a user to upload a specific media file to their profile being a picture/video. 1. Upload Post Button – is a button component that allows the user to upload a specific media file this page is display with the corresponding tags attached below. 2. Tag – is a text component which displays the result of corresponding tags which have been assigned to this post by the user with their corresponding position. If this object is clicked the user will be asked if they want to remove this specific tag from being added to this post. 3. Comment Text Box – allows the user to assign a comment to the post being uploaded. 4. Media File Being Uploaded – is either a picture/ video component which is the picture/video file being uploaded. 5. Upload Tag Button – is a button component that creates a tag component for the text corresponding to the contents inside the "Tag Textbox" 6. Tag Text Box – allows the user to input a tag which they wish to assign to this post.

Private Profile Screen

Screen	Description
	The **"Private Profile Screen"** displays the profile of the corresponding user logged into the app to themselves. 1. Profile Icon – on this screen displays the profile image of the user logged into app. 2. Profile Username – is a text component which displays the username of the user logged into app. 3. Following / Followers Count – is a text component that displays a number value which represents how many users the user has/is following based on the related use. 4. Edit Button – is a button component that allows the user to edit their profile. 5. Logout Button – is a button component which logs out the current user signed into the application and returns the user to the "Welcome Screen". 6. Post Object – this is a miniature version of a particular post the user has made. Once this object is clicked on the user will be redirected to a screen called **"ViewPost"** which displays this post in full size.

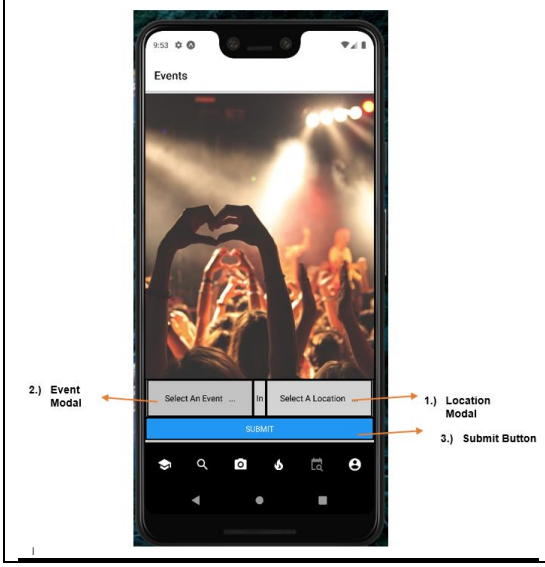
Public Profile Screen

Screen	Description
	The **"Public Profile Screen"** displays the profile of a corresponding user in third person to the public. All users cannot see their own **"Public Profile Screen".** This page has the same functionality as the **"Private Profile Screen".** 5. Follow / Following Button – is a button component which allows a user to follow / unfollow another user.

Events Screen

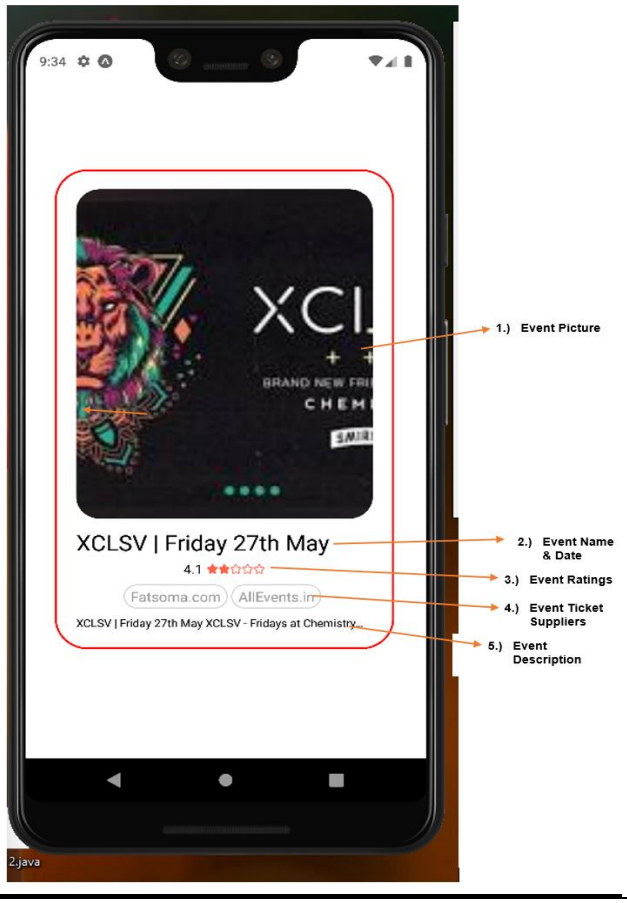
Disclaimer:

This screen works best when testing on an emulator device. However, this page only functions on android and requires ADB to be setup (Initialization steps above) on the computing device

Screen	Description
	The **"Events Screen Page"** allows a user to search for a particular type of event happening in a specific location. 1. Location Modal – is a modal component which displays a pop-up menu allowing the user to select a location to the event they are querying. 2. Event Modal – is a modal component which displays a pop-up menu allowing the user to select a type of event to query. 3. Submit Button – is a button component which redirects the user to the "Events Screen Results" to display the results of the queries in this page.

Events Screen Results

Screen	Description
	The **"Events Screen Results Page"** displays events retrieved from the applications API server when querying the event on the page Events. 1. Event Picture – is a picture component which displays a graphical image of the event. 2. Event Name & Date – is a text component which displays the name & date of the event. 3. Event Rating – is a text component which displays the rating of the venue hosting the event out of 5 stars. 4. Event Ticket Suppliers – is a button component which displays possible retailers to buy a ticket at this event for. Once this object is clicked the user will be redirected to the corresponding supplier page for buying this ticket. 5. Event Description – is a text component which displays a text description of the event on display.


9:34
XCL
BRAND NEW FRI
CHEMI
XCLSV | Friday 27th May
4.1
Fatsoma.com
AllEvents.in
XCLSV | Friday 27th May XCLSV - Fridays at Chemistry
1.) Event Picture
2.) Event Name & Date
3.) Event Ratings
4.) Event Ticket Suppliers
5.) Event Description
2.java

Bibliography

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Expo Emulator Download Video

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- Expo Documentation. (n.d.). *Android Studio Emulator*. [online] Available at: https://docs.expo.dev/workflow/android-studio-emulator/ [Accessed 13 Apr. 2022].

- Expo Documentation. (n.d.). *iOS Simulator*. [online] Available at: https://docs.expo.dev/workflow/ios-simulator/ [Accessed 13 Apr. 2022].

Download ADB

How-To Geek. (n.d.). *How to Install and Use ADB, the Android Debug Bridge Utility*. [online] Available at: https://www.howtogeek.com/125769/how-to-install-and-use-abd-the-android-debug-bridge-utility/ [Accessed 13 Apr. 2022].

Download Expo on Mobile Devices

play.google.com. (n.d.). *Expo Go – Apps on Google Play*. [online] Available at: https://play.google.com/store/apps/details?id=host.exp.exponent&hl=en_GB&gl=US.

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