

Photo Gallery App

Galeria

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Background

The purpose of this app is to conveniently manage and view your photos on the web on any device.

Users can upload pictures and set permissions on who can view them. There will be a social aspect that involves comments, likes and adding photos to a shared album. This app can be used for organizations and the public.

Application Type

Web Application

Development Stack

Frontend: Angular, Ionic

Backend: PHP with Laravel

Database: AWS RDS for MySQL

Functionality Chart

Feature	User (role 1)	Admin - Owner (role 2)
CRUD on photos, albums, friends list	X	
Edit view of photos/albums (compact or full size)	X	
Sort by Name, Date modified, Size, File type	X	
Share albums with other users	X	
Like, comment, favourite, download photos from personal albums or others.	X	
Restrict sharing options with personal albums		X

View statistics, how many photos in database, number of albums, most liked photos, most commented photos, number of photos uploaded in each month/year, how many has seen a photo (views)		X
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Screen Mockups

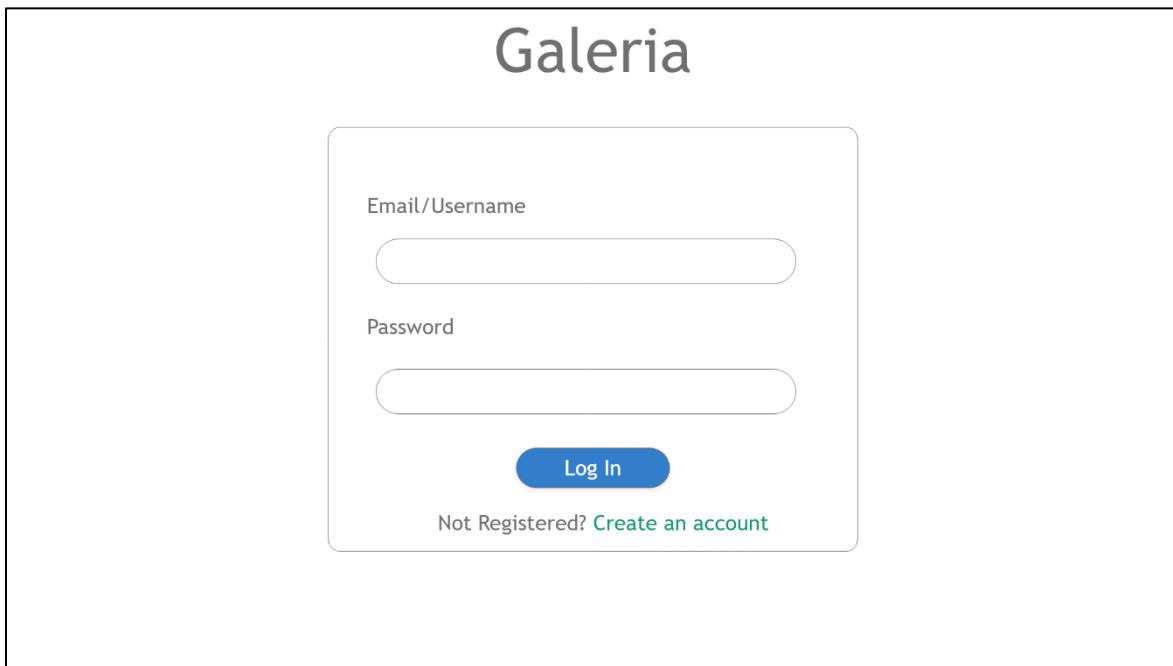


FIGURE 1: LOGIN PAGE

The user is greeted with a login page. They are able to login using their email or their username.

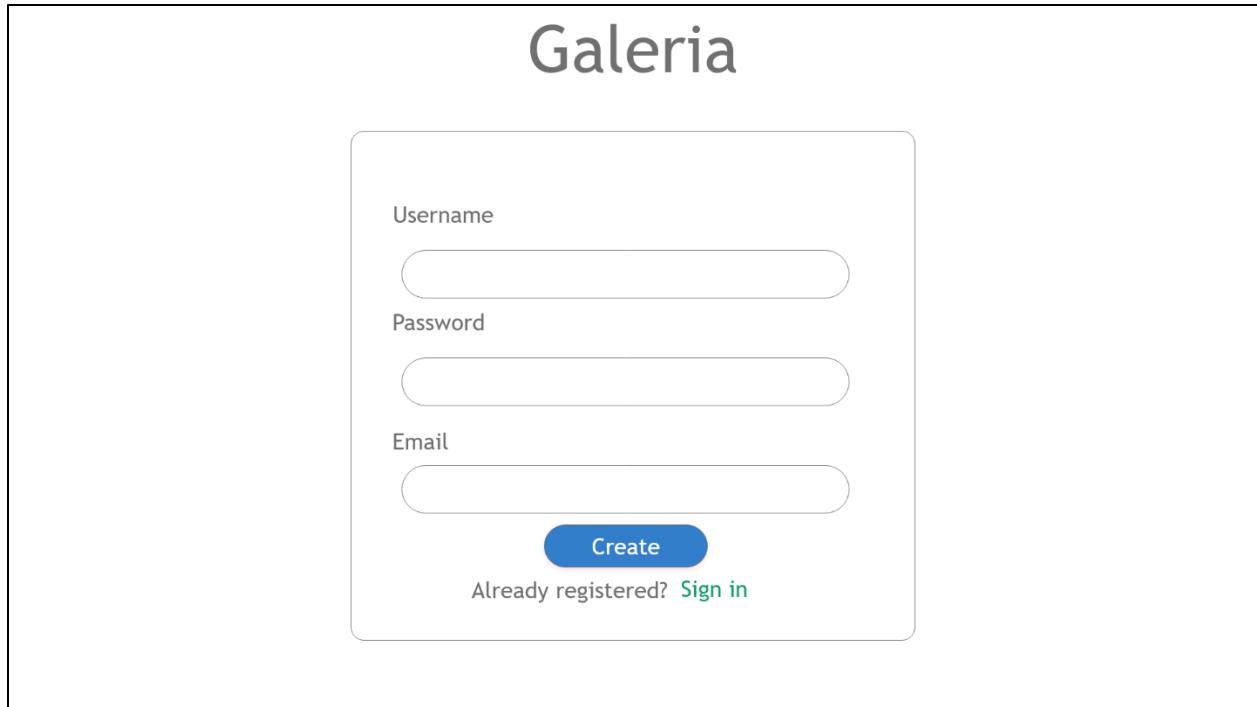


FIGURE 2: CREATE ACCOUNT PAGE

If it is the first time for the user, they are required to register. They must enter a username, password and email.

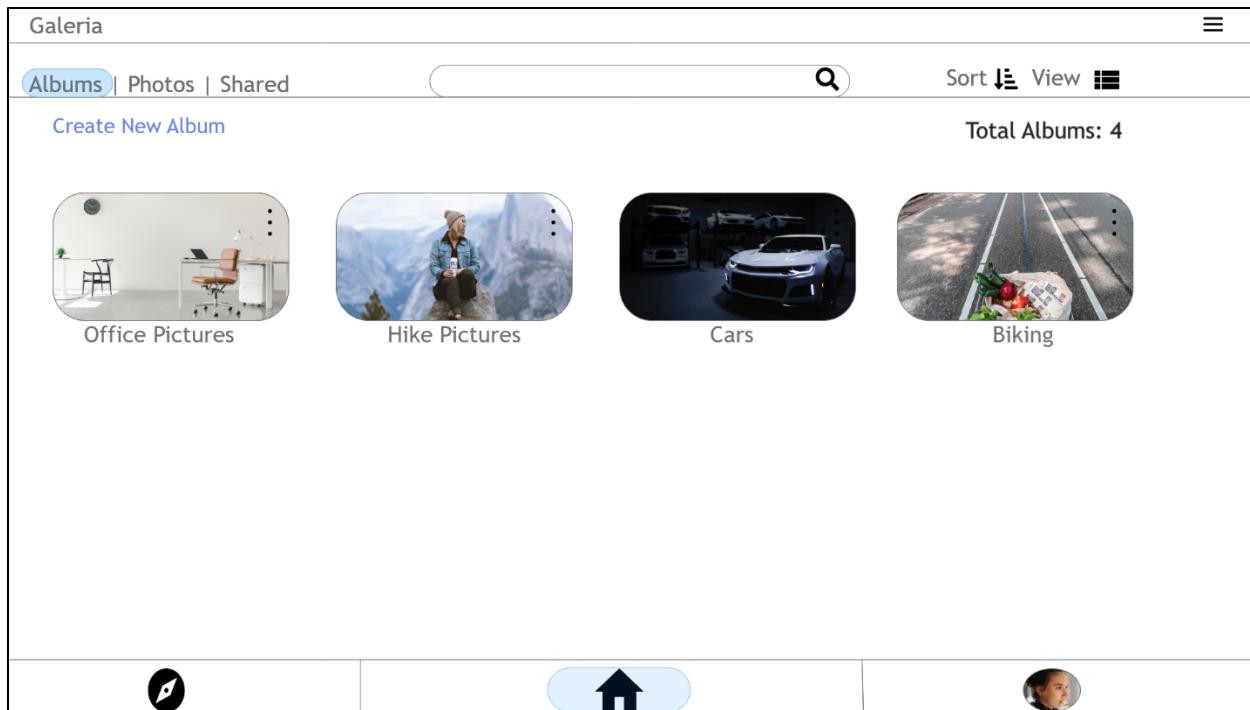


FIGURE 3: LANDING PAGE (HOME TAB- ALBUMS)

This is the initial page after the user has logged in successfully. There is a navigation bar at the bottom of the page that consists of three tabs. From left to right, the first tab is the Discovery tab – Where all public photos are showcased for all users to see. Next, is the Home tab – Where users are able to manage and view their photos. Finally, the last tab is the Profile tab – Users are able to manage their settings preferences, view their activity log and view statistics based on their photos.

There is also a navigation bar at the top of the page. The left side consists of three tabs where users can choose to view all photos, albums or shared albums. In the middle, there is a search bar that is used for searching photos/albums by titles. On the right side, there are two buttons – View and Sort - that can change how users prefer to see their photos/albums.

Inside the album section, the user can create a new album by clicking on the 'Create New Album' button and they can view the total amount of albums across from the button.

The 'Hamburger' Icon on the far right beside the application name (Galeria) is used to log out of the app.

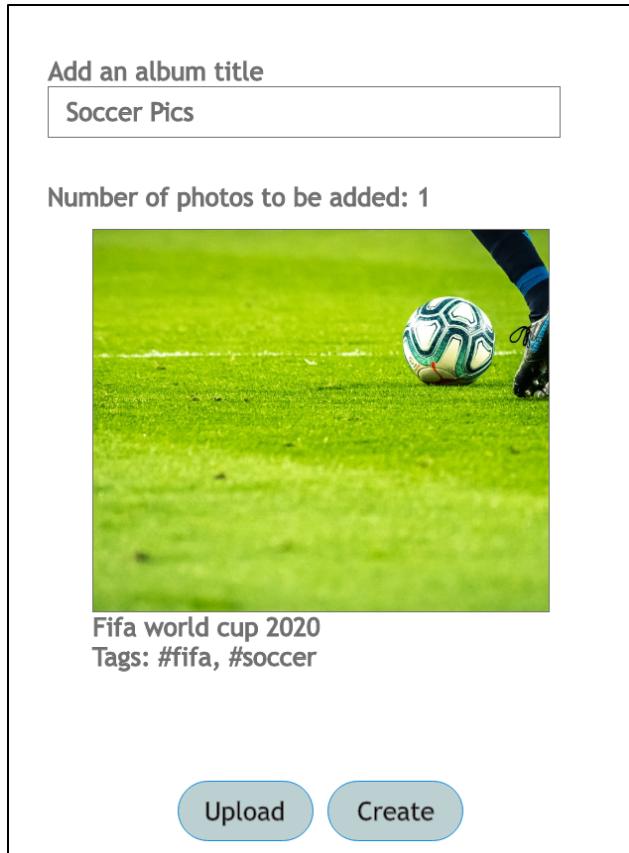


FIGURE 4: CREATE NEW ALBUM

When Clicking on the 'Create New Album' button in (Figure 3), A popover appears providing options to give a title to their album, upload photos using the upload button and finally create the album by clicking on the create button.

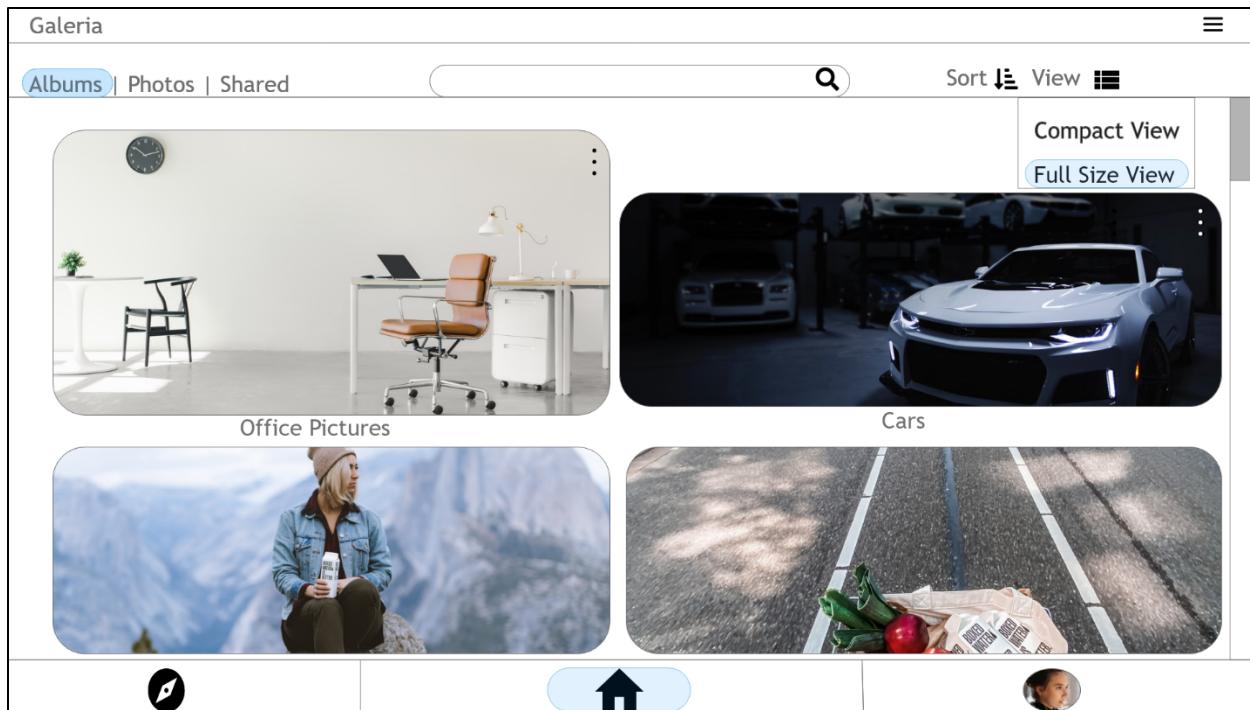


FIGURE 5: FULL SIZE VIEW

When the user clicks on the View button, they will see two viewing options – ‘Compact View’ and ‘Full Size View’. In Compact View, they see the same layout shown in (Figure 3). In Full View, the photos/albums will have the layout shown in (Figure 5), where the photos/albums will expand to a bigger size.

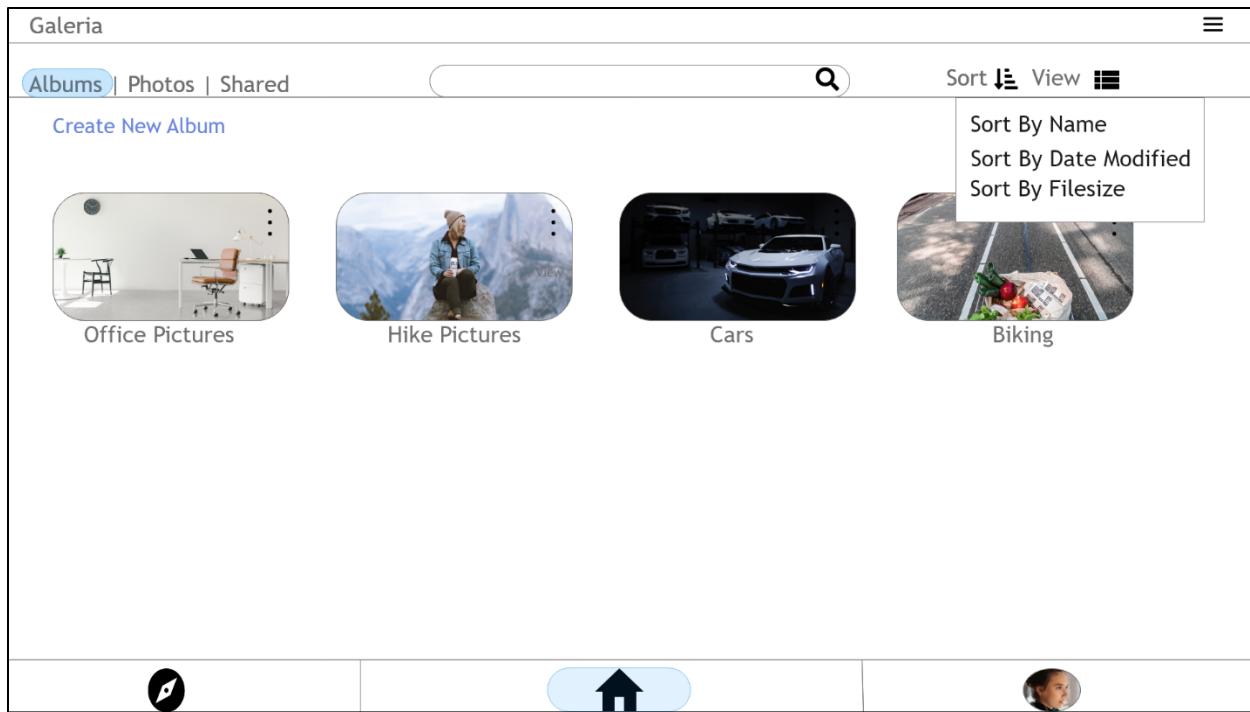


FIGURE 6: HOME – ALBUMS: SORT

When the user clicks on the Sort button, they will see three sorting options, Sort by Name will be sorted by the album name or photo name. Sort by Date Modified will be sorted by the last date that the user made changes to an album or photos. Sort by Filesize will be sorted by the size of the album or photos.

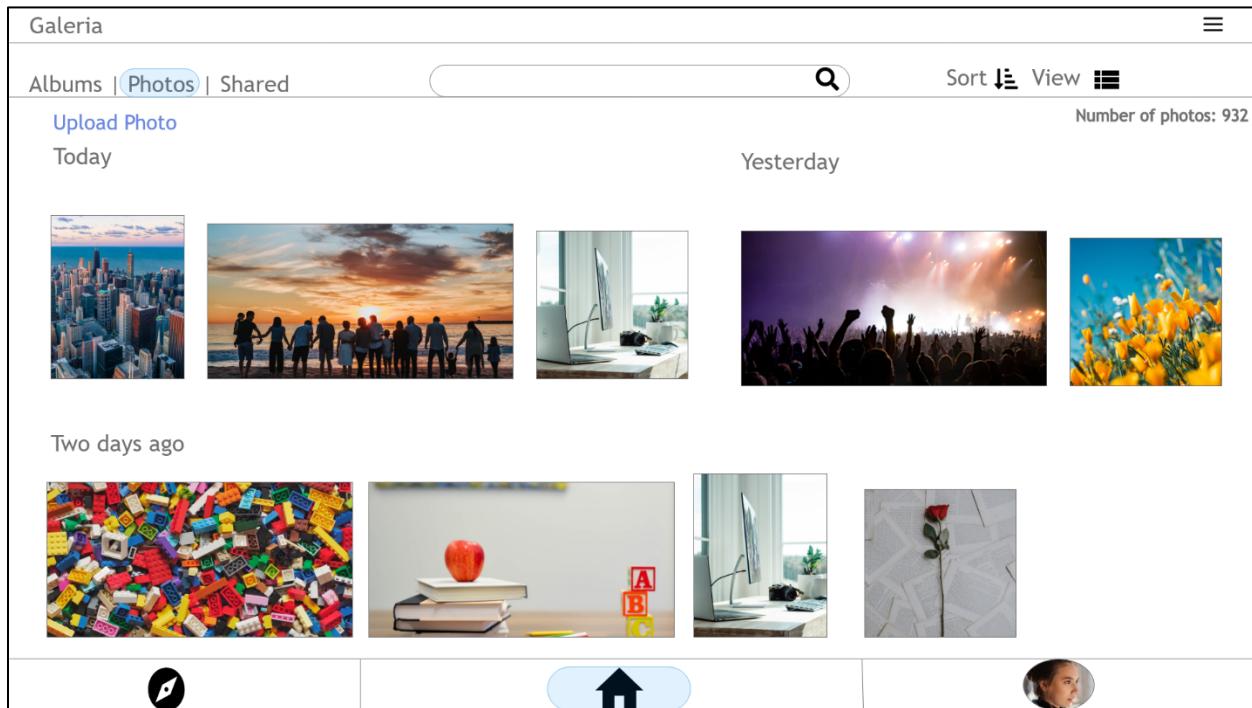


FIGURE 7: HOME-PHOTOS

This is the Photos section within the Home tab. The photos are sorted by date by default. The user can upload photos by clicking on the 'Upload Photo' button and they can see the number of photos listed across from the button.

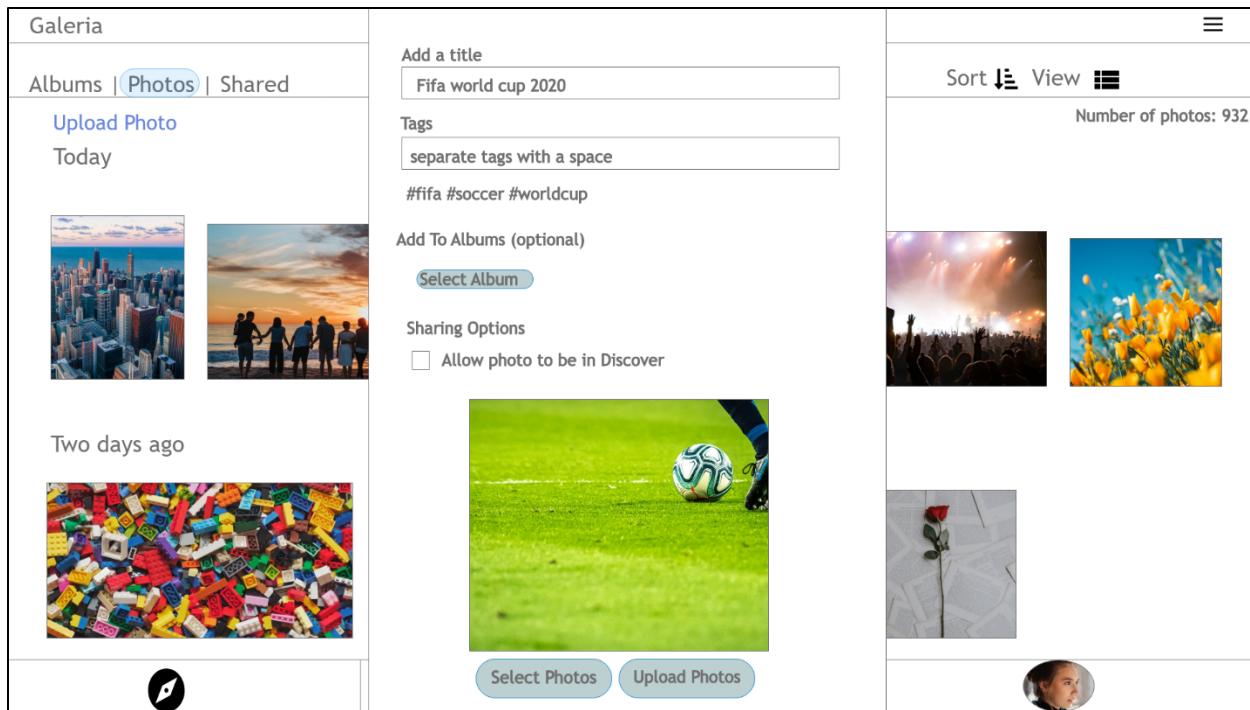


FIGURE 8: UPLOAD PHOTO

When Clicking 'Upload Photos' in (Figure 7), A popover appears providing options to give a title to their photo(s), add tags, add to albums if they wish to do so and allow their uploaded photo(s) to be shown in the Discover tab. The 'Select Photos' button will open the file explorer for the user to choose their photos and the 'Upload Photos' button will confirm the photos and upload them to the photos library.

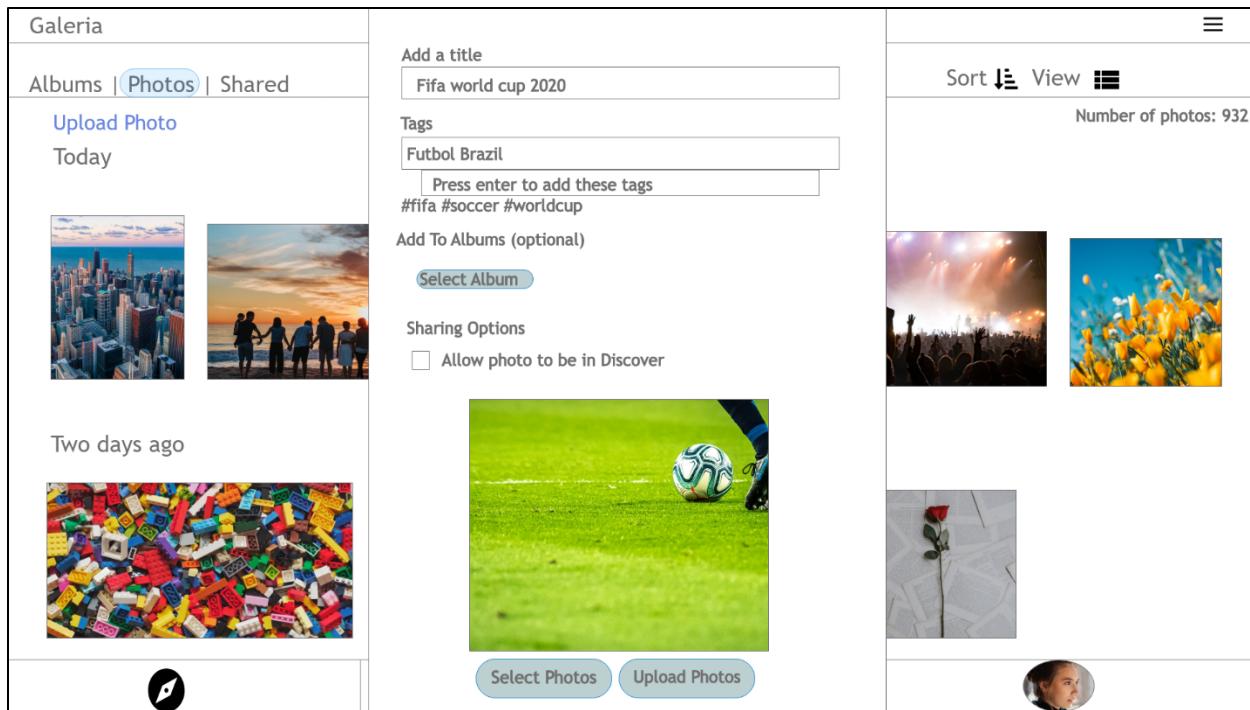


FIGURE 9: UPLOAD PHOTO – ADD TAGS (HASHTAGS ARE AUTOMATICALLY ADDED)

The user can add as many tags to their photos. The tags will help the photos to be searchable in the Discover tab as well as in the Home tab. The hashtag symbol will automatically be added following the tag name.

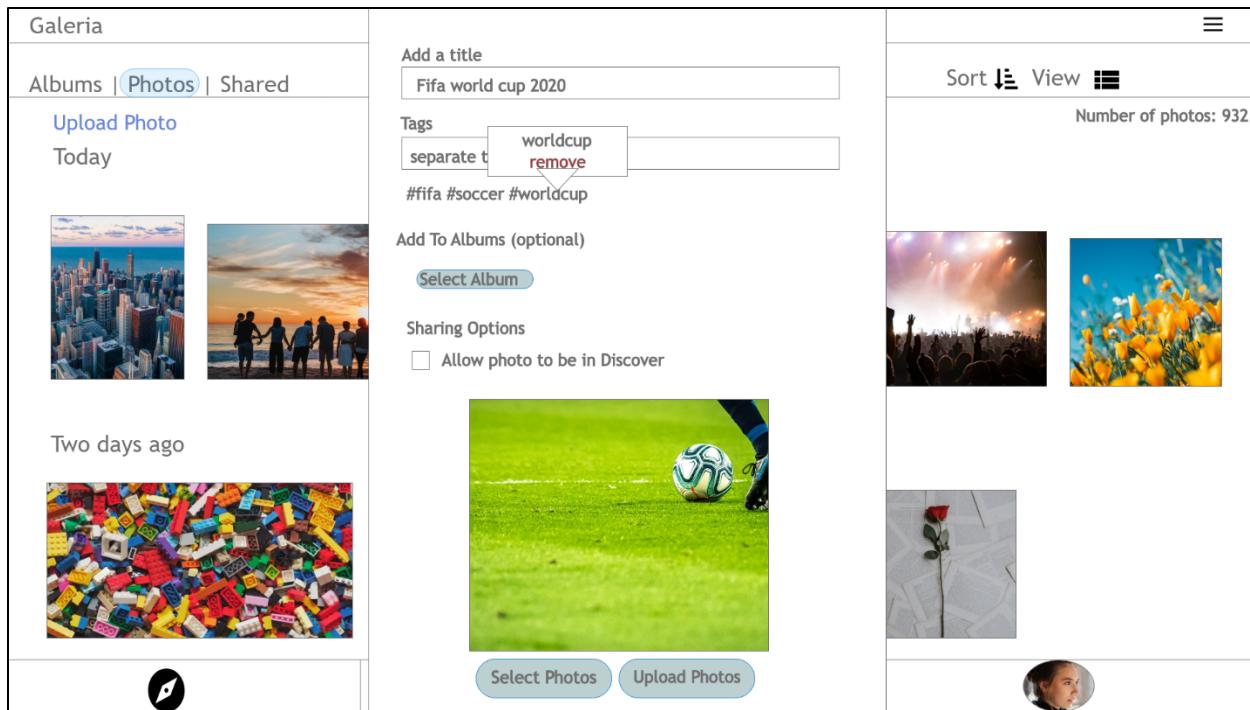


FIGURE 10: UPLOAD PHOTO – REMOVE TAGS

The user has the option to remove tags after adding one if they wish to do so.

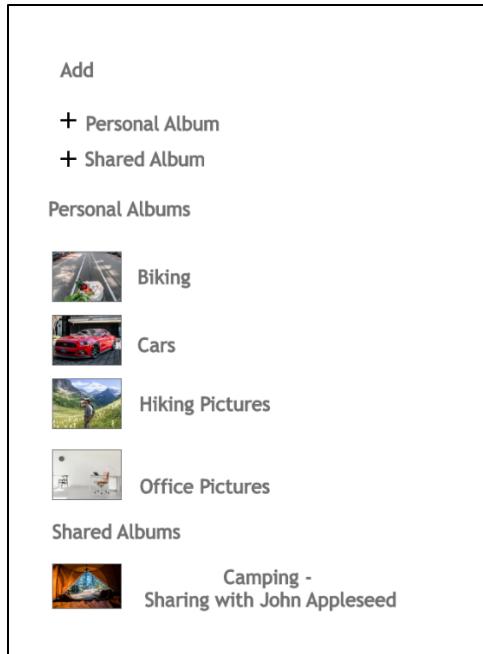


FIGURE 11: ADD TO ALBUM

If the user chooses to add their photo(s) to an album by clicking on 'Select Album' in (Figure 8.iii), a new popover appears giving options to the user to create a new personal or shared album. Already created albums will appear under Personal Albums or Shared Albums. Clicking on one of these albums will add the photo(s) immediately

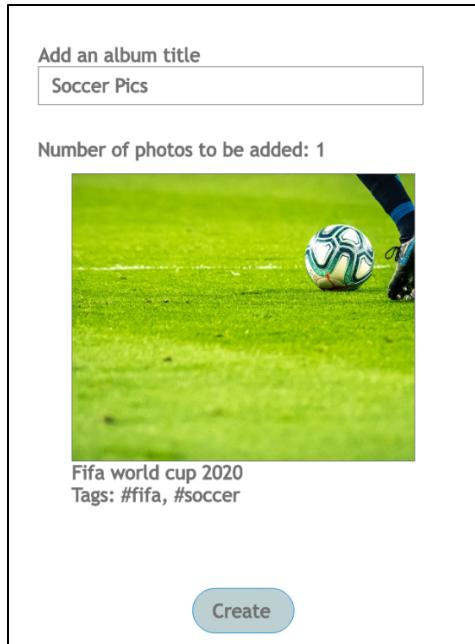


FIGURE 12: CREATE NEW PERSONAL ALBUM

If the user clicks on the 'Create New Personal Album' button in (Figure 10), The same popover shown in (Figure 4) will appear giving the option for the user to create a new album.

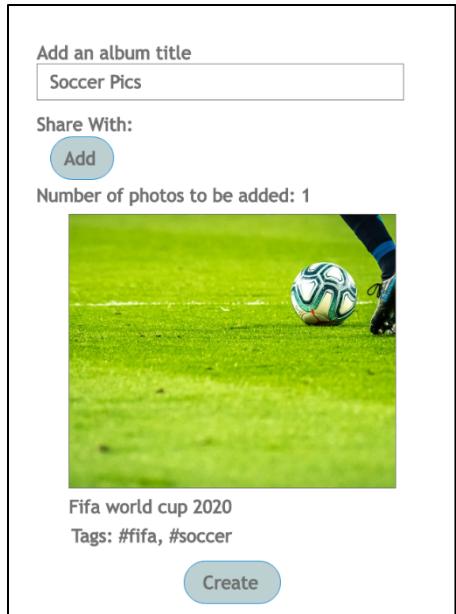


FIGURE 13: CREATE NEW SHARED ALBUM

If the user clicks on the 'Create New Shared Album' button in (Figure 9), A similar popover shown in (Figure 10) appears except the user has an extra option to share the album with another user by clicking on the 'Add' button.

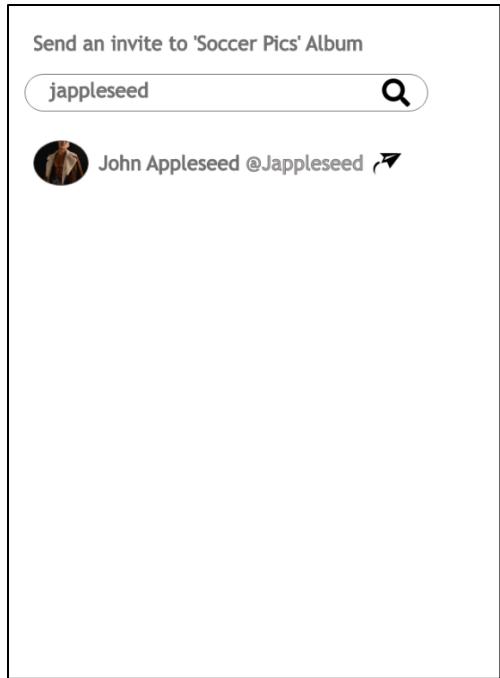


FIGURE 14: INVITE USER TO SHARE BY USERNAME

When the user clicks on the 'Add' button in (Figure 11), this popover appears allowing the user to send an invite to another user by username.

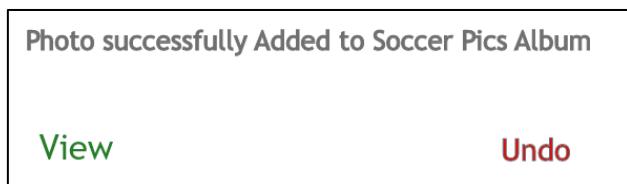


FIGURE 15: ALBUM CONFIRMATION

Confirmation of a photo being added to an album

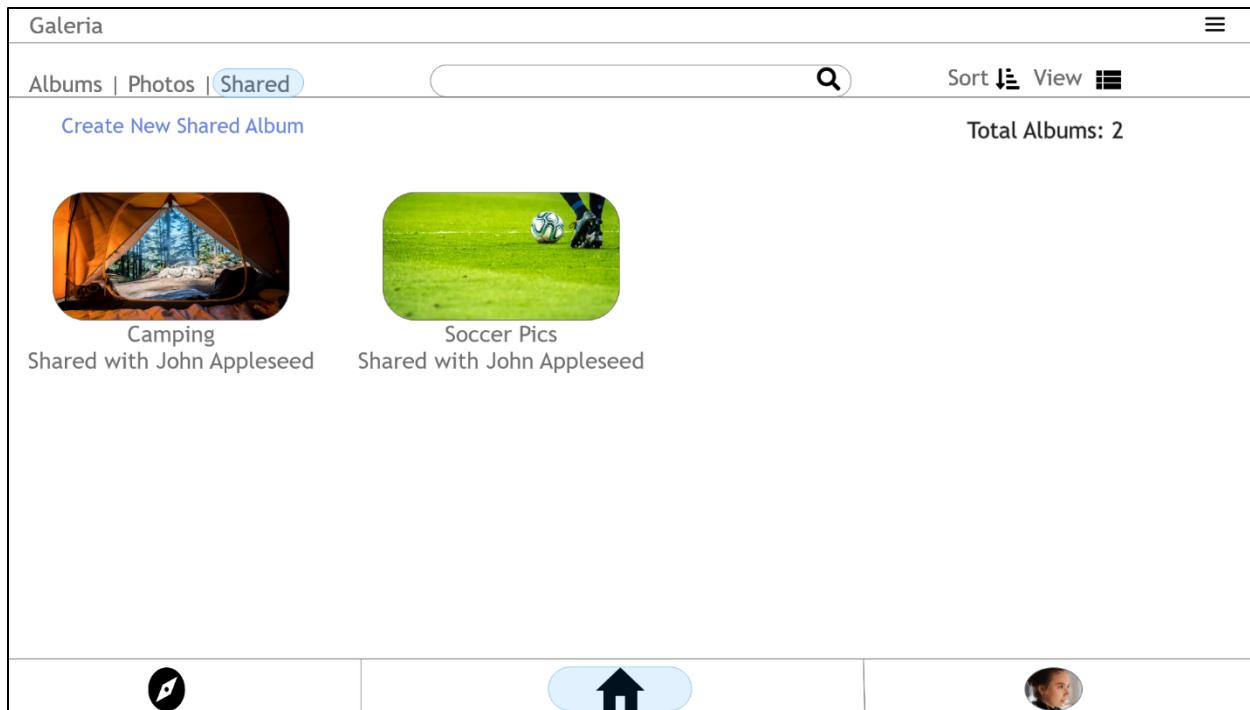


FIGURE 16: HOME – SHARED ALBUMS

In this page, the user is in the Shared section within the Home tab. The albums are shown with a title and the other user that is being shared with. Clicking on ‘the Create New Shared Album’ button will lead to the popover shown in (Figure 11). The user will also be able to see the total number of shared albums listed across from the button.

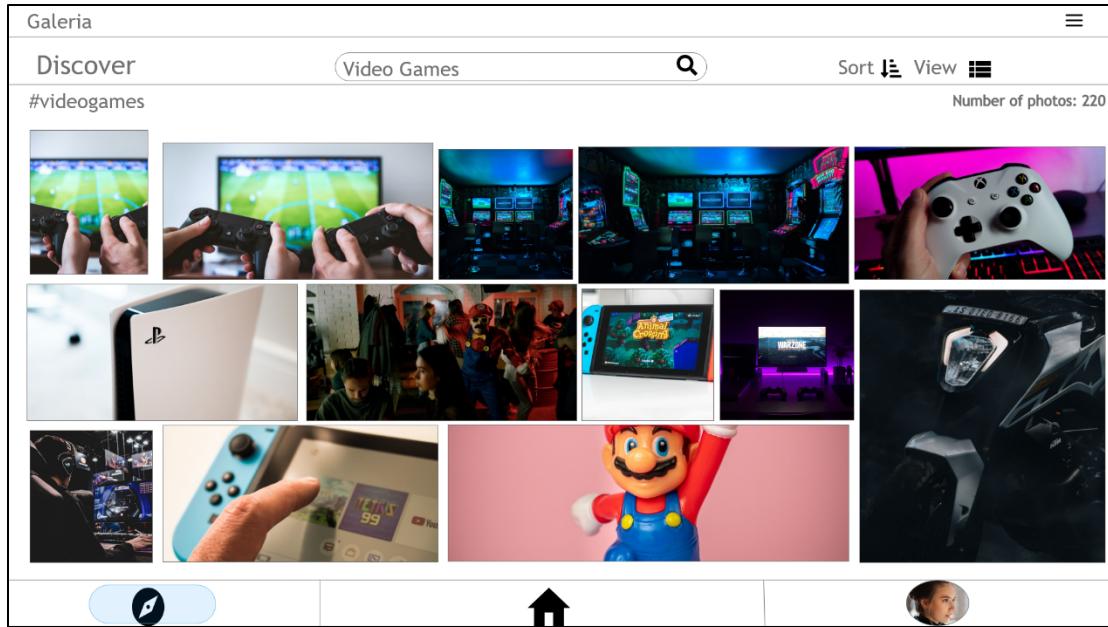


FIGURE 17: DISCOVERY

This is the Discovery tab where public photos uploaded by users are showcased. The default page will be photos uploaded on the current date. A user has the option to search photos by tags.

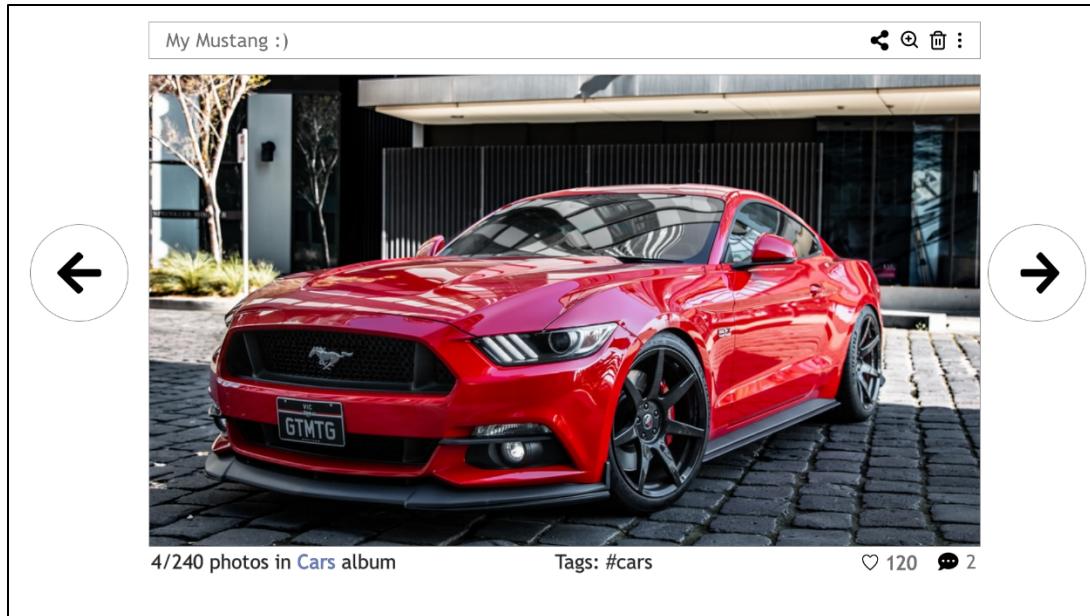


FIGURE 18: SINGLE PHOTO VIEW

When a user clicks on a photo, this will be the single photo view layout. The navigation bar above the image will have the title and 4 icons on the far right. From left to right,

the first icon is the share button, the second icon is the zoom button that allows user to zoom in and out of a picture, the third icon is the trash button that will delete the photo (not allowed in discovery) and finally the last icon is the more options button that will display a popover with more options.

The user can traverse through photos by clicking on the arrows on either side of the photo.

Below the photo, the user can see the number of photos that's in a particular album, the tags of the photo, likes and comments.

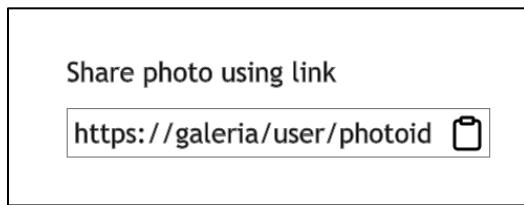


FIGURE 19: SHARE PHOTO – CLICK ON SHARE ICON

If the user clicks on the share icon in (Figure 16), this popover will appear providing the link to the particular photo.

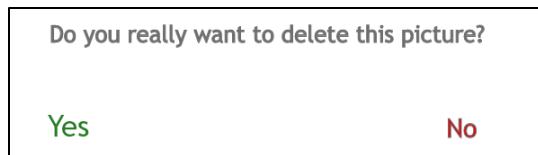


FIGURE 20: CLICK ON TRASH CAN ICON

If the user clicks on the trash icon in (Figure 16), this warning message will appear.

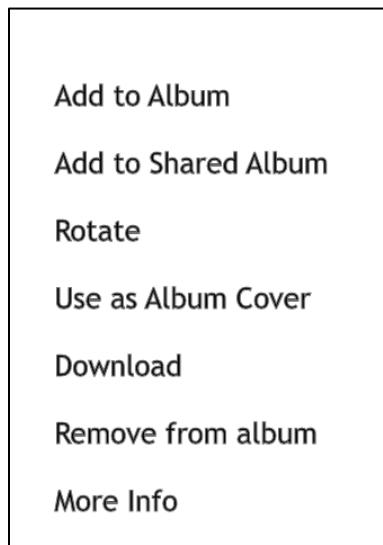


FIGURE 21: MORE OPTIONS ICON CLICK

If the user clicks on the more options icon, this popover is presented. The popover displays a list of other options.



FIGURE 22: MORE INFO

If the user clicks on More Info in (Figure 20), they will be presented with metadata about the particular photo.

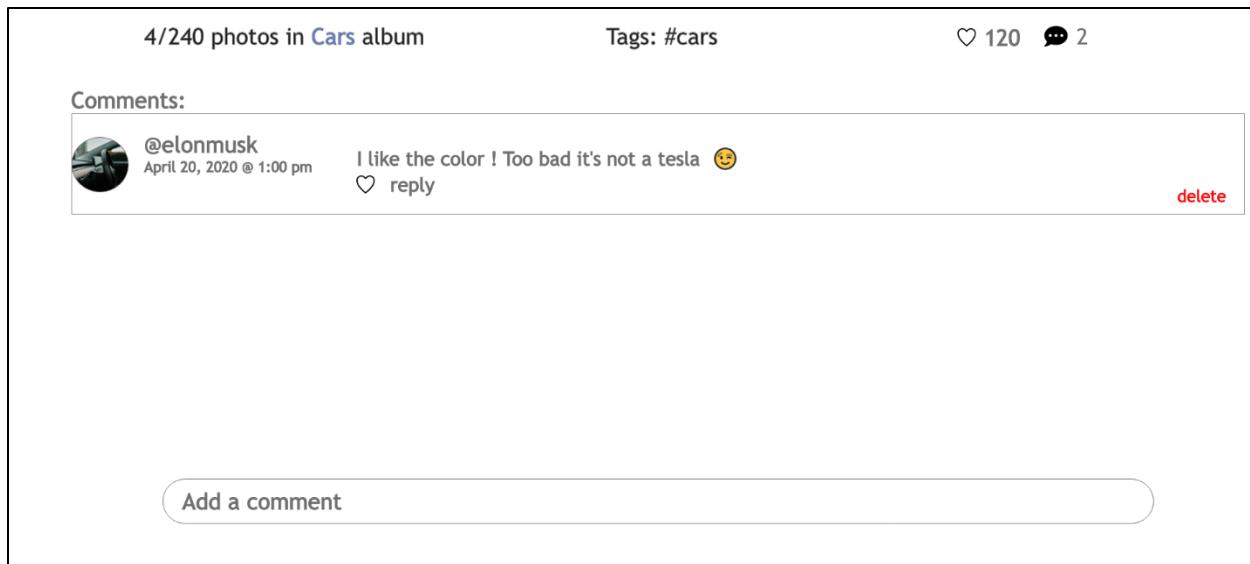


FIGURE 23: CLICKING ON COMMENTS – SHOW COMMENT SECTION

If the user clicks on the Comment icon, the comment section will appear. In the comment section, the user can see other user's comments with the option of liking the comment, replying to the comment or deleting the comment, they can also add comments. If the user was on another user's comment section, they cannot delete anyone's comments but their own.

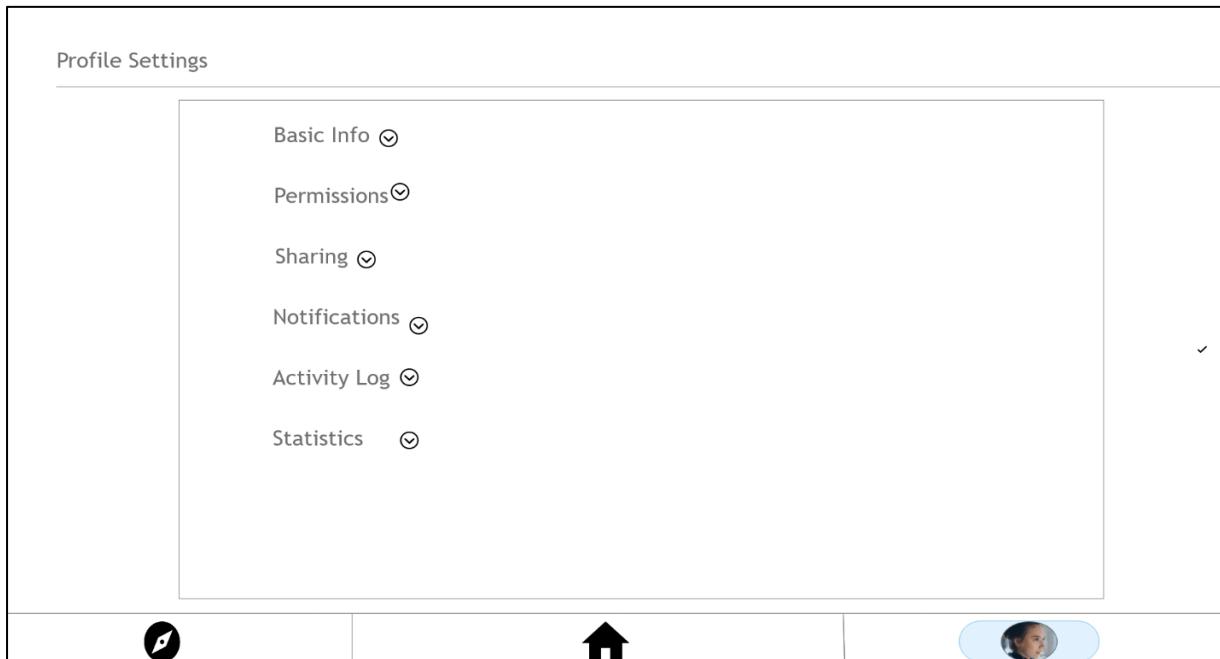


FIGURE 24: PROFILE TAB – PROFILE SETTINGS

This is the Profile tab where the user can manage their settings within the application.

Profile Settings

Basic Info 

 [Change Profile Picture](#)

Name: [Edit](#)

Username: [Edit](#)

Email: [Edit](#)

Location: [Edit](#)

Permissions 

Sharing 

Notifications 

Activity Log 

Statistics 

FIGURE 25: PROFILE SETTINGS – BASIC INFO

In the Basic Info section, the user can change their profile picture or update their personal information.

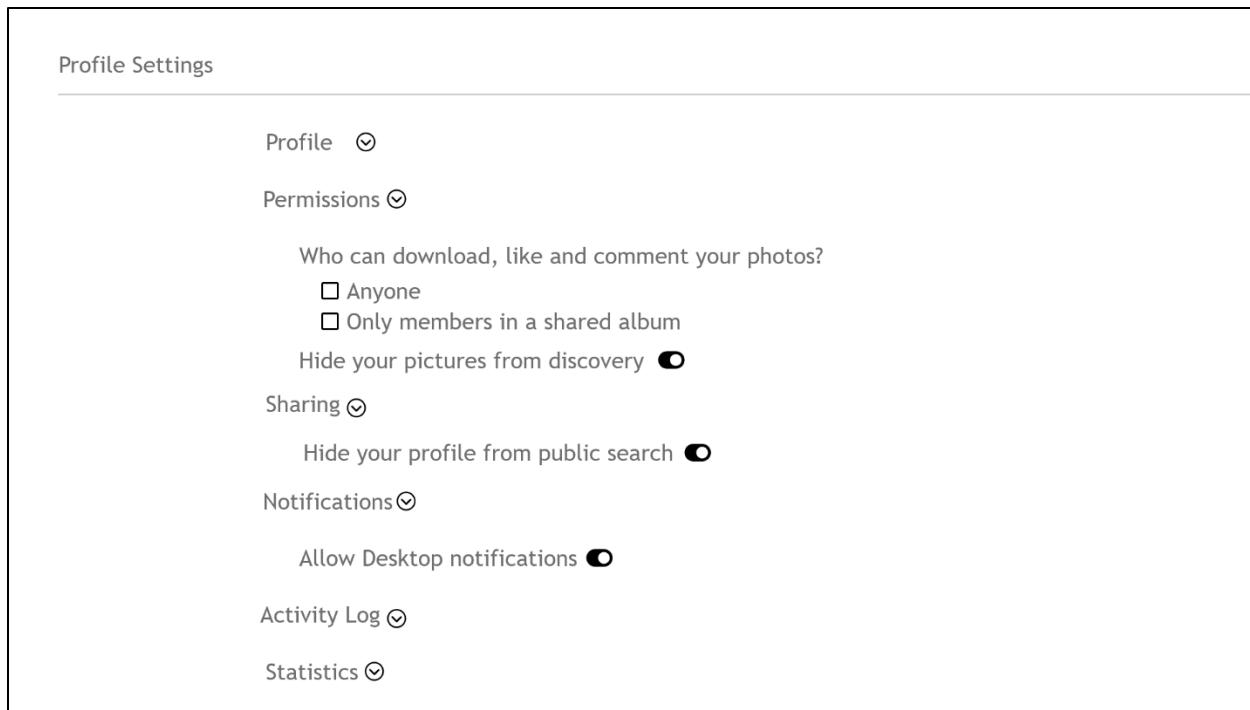


FIGURE 26: PROFILE SETTINGS – PERMISSION, SHARING, NOTIFICATION

In the Permissions section, the user can set their preferences on who can download, like and comment their uploaded photos as well as hide their pictures from the discovery tab.

In the Sharing section, the user can enable or disable the option to hide their profile from public search in the Discovery Tab.

In the Notification section, the user can enable or disable desktop notifications.

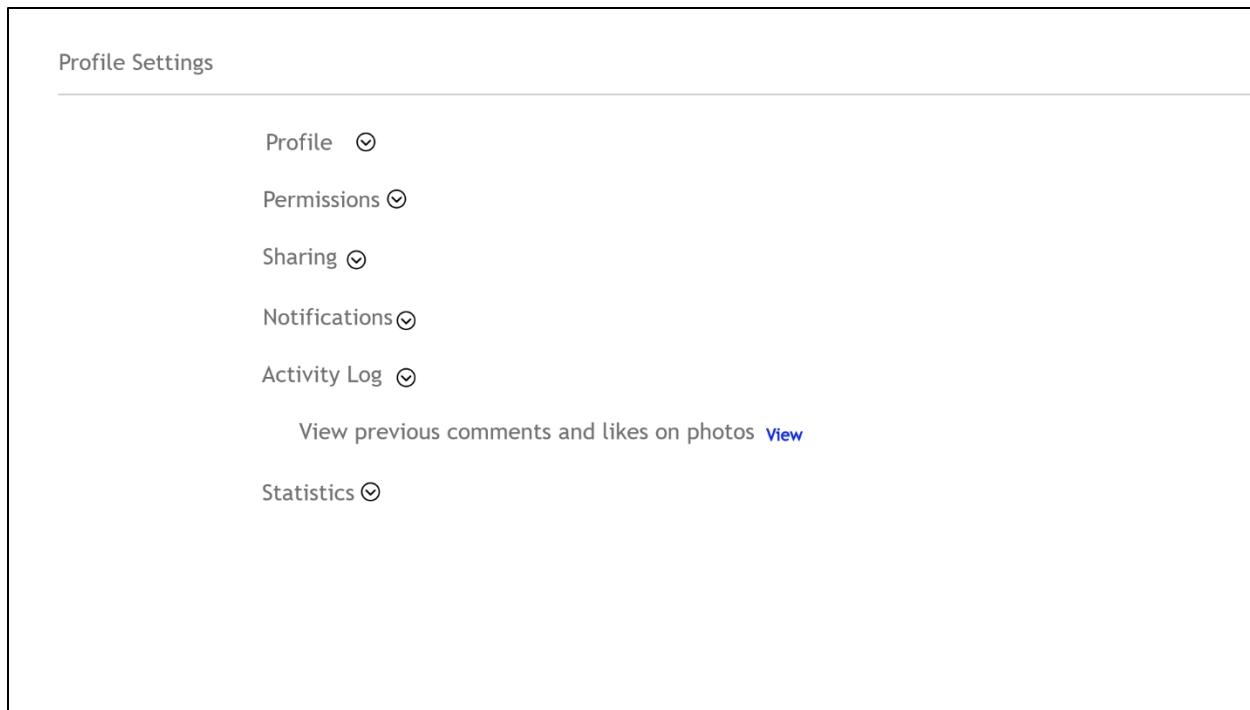


FIGURE 27: PROFILE SETTINGS – ACTIVITY LOG

In the Activity log section, the user can view their previous comments and likes on photos.

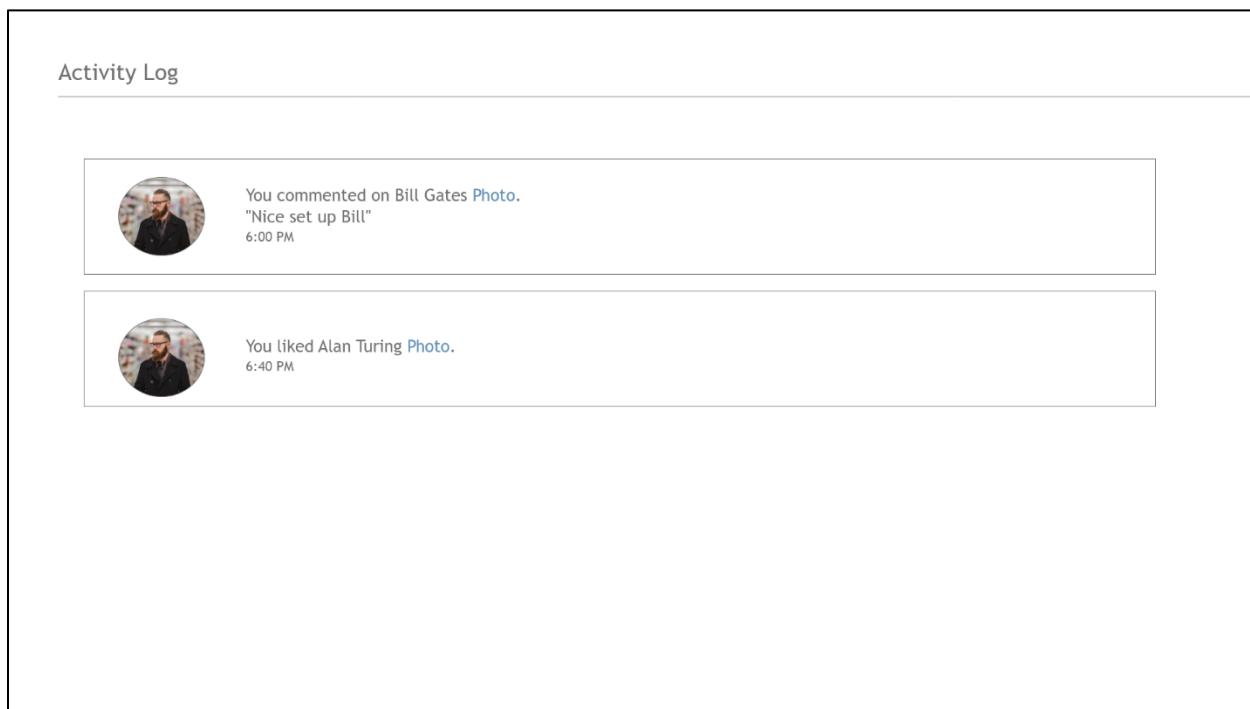


FIGURE 28: PROFILE SETTINGS – ACTIVITY LOG VIEW

The user sees a history of their activity within the application.

Profile Settings

Profile 

Permissions 

Sharing 

Notifications 

Activity Log 

Statistics 

Total number of photos: 1200

Total number of Albums: 30

Most commented photo: (None of your photos have comments as of yet)

Most viewed public photo: [View](#)

 (142 views)

Most liked photo: [View](#)

 (12 likes)

Number of photos uploaded from to : 1333

FIGURE 29: PROFILE SETTINGS – STATS

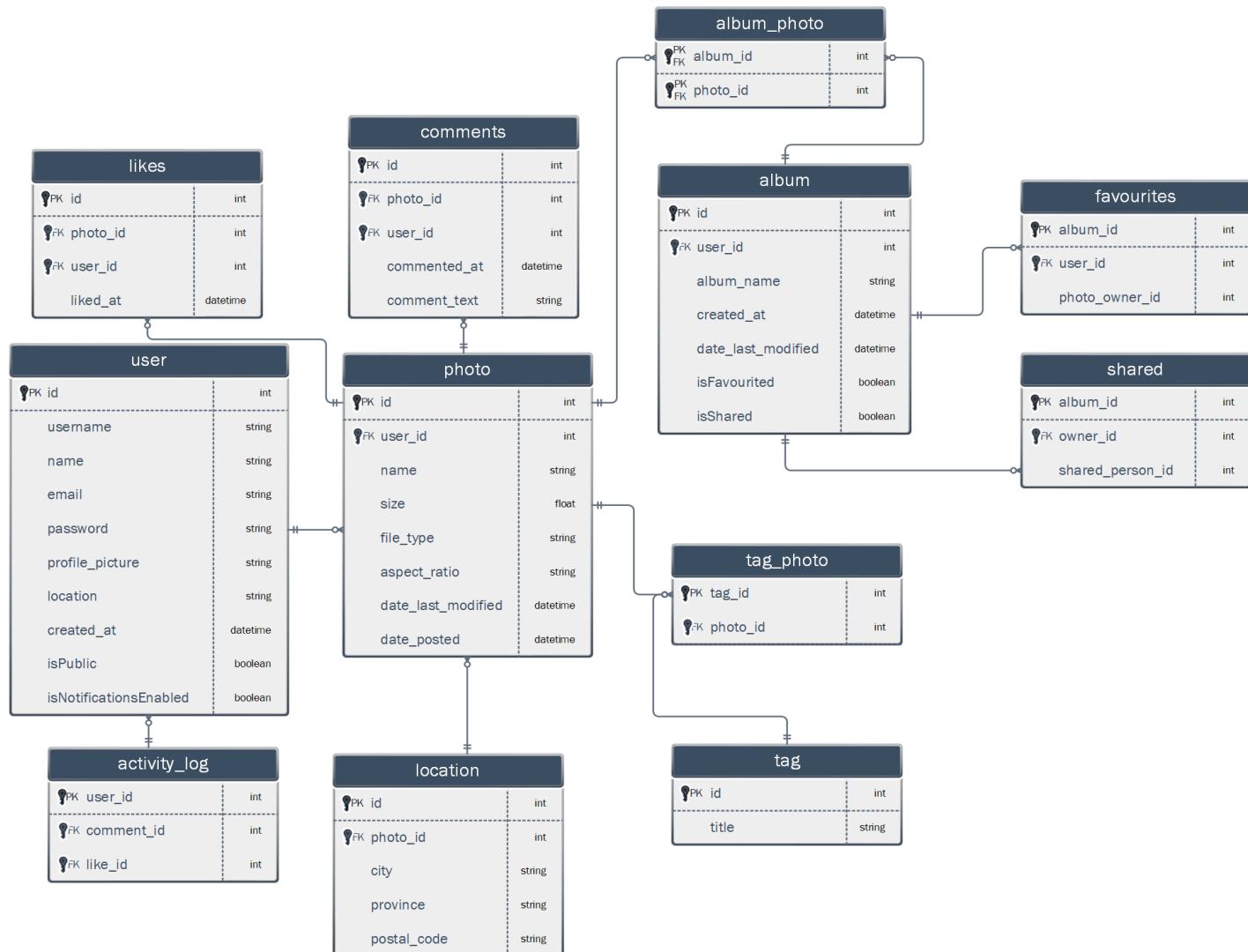
In the statistics section, the user will be able to see their stats about the number of photos and albums in their library, most commented photo, most viewed public photo, most liked photo, and number of photos within a specific range of dates.



FIGURE 30: HAMBURGER ICON ON TOP RIGHT OF WEBSITE – LOG OUT

The icon on the top right corner of the application is for the user to log out.

Database Schema



Test Plan

Test to Pass

1. Authentication & Registration

- Test login & validation
- Test registration & validation
- Test forgot password/username
- Test updating password and username
- Test logout

2. Home tab – Photos

- Test selecting photos from computer by clicking on Upload Photo
- Test adding a title to the photos
- Test adding tags to photos
- Test uploading photos without adding to an album
- Test adding photos to new album
- Test adding photos to an album that has been already created
- Test adding photos to shared album
- Test allowing photo to be shown in the Discovery tab
- Test removing tags from photos
- Test Undo to rollback photos that were just uploaded
- Test deleting a photo
- Test View layouts (Compact & Full-Size View)
- Test Sort functionality

3. Home tab – Albums

- Test create New Personal Album
- Test adding a title to album
- Test adding photos to album
- Test deleting photos from album
- Test updating an album name
- Test deleting an album
- Test View layouts (Compact & Full-Size View)
- Test Sort functionality

4. Home tab - Shared Albums

- Test Create New Shared Album
- Test adding user to shared album
- Test searching user by username
- Test sending Invite

- Test receiving Invite
- Test invited user uploading photo to already created shared album
- Test deleting shared album
- Test View layouts (Compact & Full-Size View)
- Test Sort functionality

5. Discover Tab

- Test recent uploaded photo to be shown in discovery tab after allowing it to be public
- Test searching photos by tag name
- Test downloading a selected photo
- Test commenting a selected photo
- Test replying to a comment in a selected photo
- Test liking a selected photo
- Test adding a selected photo to an album

6. Single Photo View

- Test liking a photo
- Test commenting a photo
- Test getting link to share a photo
- Test zooming in and out of photo
- Test traversing photos in an album by clicking on either arrow (previous and next photo)
- Test rotating photo
- Test updating the photo to use as album cover
- Test viewing details of photo
- Test deleting a photo

7. Comments

- Test receiving a comment
- Test liking a comment
- Test replying to a comment
- Test deleting a comment
- Test adding a comment

8. Settings

- Test changing profile picture
- Test updating name
- Test updating username
- Test updating email
- Test updating location

- Test updating photo permissions
- Test hiding profile from public search
- Test enabling/disabling desktop notification
- Test viewing likes and comments in activity log

Test to Fail

1. Authentication & Registration

- Test invalid login attempts
- Test forget password with wrong email
- Test forget username with wrong email
- Test registration with invalid inputs

2. Home tab – Photos

- Test uploading invalid file type (Mp3, Mp4)
- Test uploading a photo without a title
- Test uploading a photo with no photos selected

3. Home tab – Albums

- Test creating an album with no title

4. Home tab – Shared Albums

- Test creating a shared album with no title
- Test searching for an invalid user
- Test creating a shared album without another user

5. Discover tab

- Test searching a photo other than a tag name

6. Settings

- Test updating profile picture with invalid file type
- Test updating name with invalid input
- Test updating username with invalid input
- Test updating email with invalid input

Project Plan

Week	Date	Tasks
1	Sept 8 – Sept 15, 2021	Create Github Repository Create AWS MySql database Set up development environment Create model classes from database Create common components (Header &bottom tab bar)
2	Sept 15 -Sept 22	Create empty components for all pages shown in mockup Create login/registration page Set up login/registration authentication
3	Sept 22 – Sept 29	Develop UI for all pages
4	Sept 29 – Oct 6	Create child components within the home tab (photos, albums, shared albums) Deploy to Host.
5	Oct 6 - Oct 13	Continue with UI for all pages Deploy project to AWS
6	Oct 13 – Oct 20	Add CRUD functionality for Photos section Add all functionalities for a single photo view
7	Oct 20 – Oct 27	Add CRUD functionality for Albums section
8	Oct 27 – Nov 3	Add CRUD functionality for Shared album section.

		Work on inviting users to shared album, have multiple users upload photos to shared album.
9	Nov 3 – Nov 10	<p>Work on Discovery tab, create multiple users to test uploading public photos to Discover tab.</p> <p>Work on comments/likes/downloading a public photo.</p> <p>Test searching photo by tag name</p>
10	Nov 10 – Nov 17	Develop profile settings page and the functions
11	Nov 17 – Nov 24	Work on polishing and reviewing application
12	Nov 24 – Dec 1	Follow the test plan and go through each task
13	Dec 1 – Dec 8	Work on final presentation
14	Dec 8 – Dec 15	Final Presentation