SW Engineering CSC648/848 Spring 2020
Gator Media

Team Number 5

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Milestone 2

History table: V 2.0

1.Functional Requirements - prioritized

Grouped by Priority

Priority 1:

Unregistered:

1.1 Users shall be able to Register and Sign in for the Gator media store.

Registered:

1.1 Users shall be able to Register and Sign in for the Gator media store.

1.2 Users shall be able to download any free media when registered.

1.3 Users shall be able to post items to sell.

Admin: No priority 1

Priority 2:

Unregistered:

2.1 Users shall be able to search for content on the website.

Registered:

2.1 Users shall be able to search for content on the website.

2.2 Messaging functionality from buyer to seller.

2.3 Seller shall be able to post a description with the media item.

2.4 Users shall be able to access the user dashboard.

Admin: No priority 2

Priority 3:

Unregistered:

3.1 Uses shall be able to see mini-image (thumbnail) of the media.

Registered:

3.1 Users shall be able to see mini-image (thumbnail) of the media.

3.2 Users shall be able to post comments on the contents.

Admin:

3.1 Shall be able to access the database where admins can approve and or reject the media content that is posted.

3.2 Shall be able to query the data of the whole site.

2. List of main data items and entities

Users: This item shall store the registration information of the user like their name, email, and phone number. And it will store the privileges/accessibility of the user. The user item has types. Non-Registered, Registered, and Administrator. If the user has the type registered, the item will store all the items they have sold or purchased.

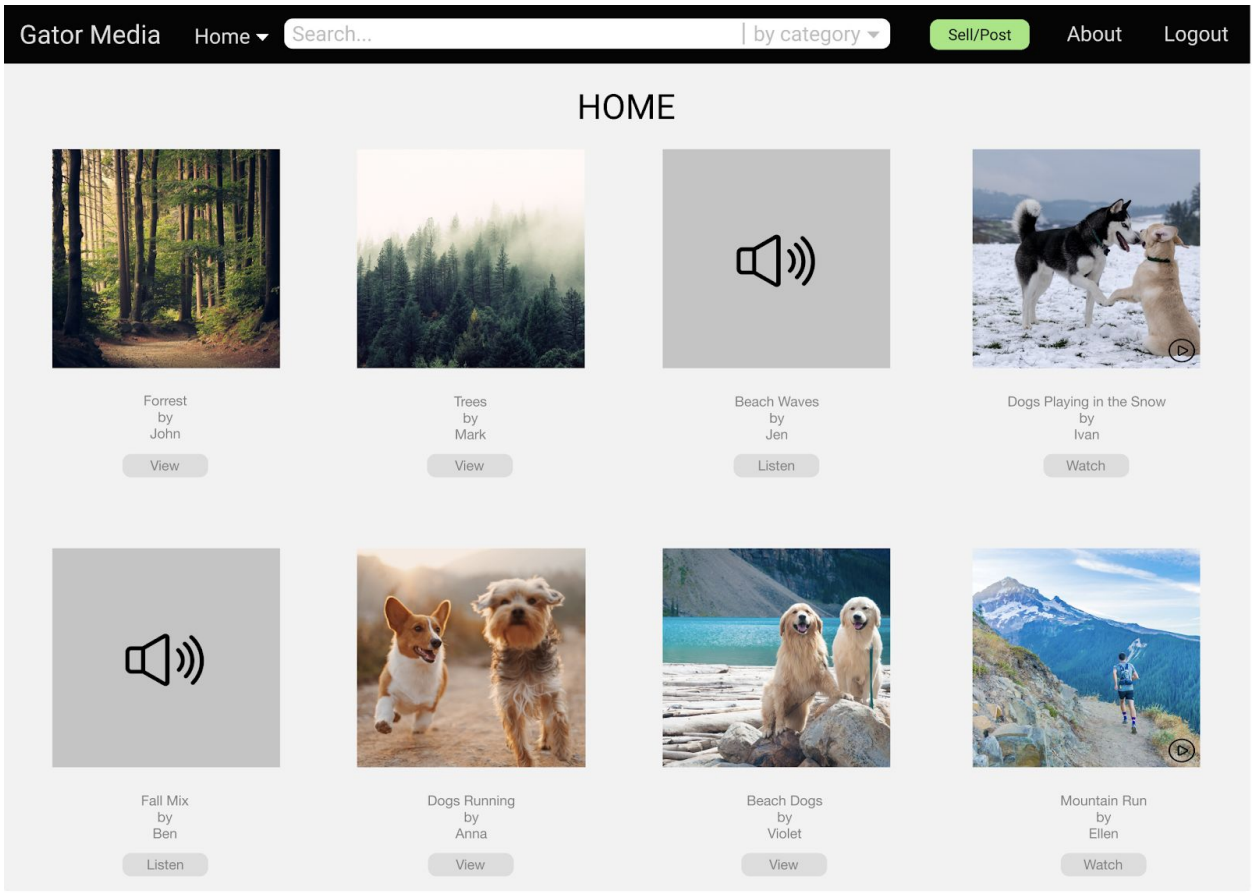
Media Items: This item holds information about the items like it's name, price, owner and location in the database.

Media Category: This item holds the names of the different categories.

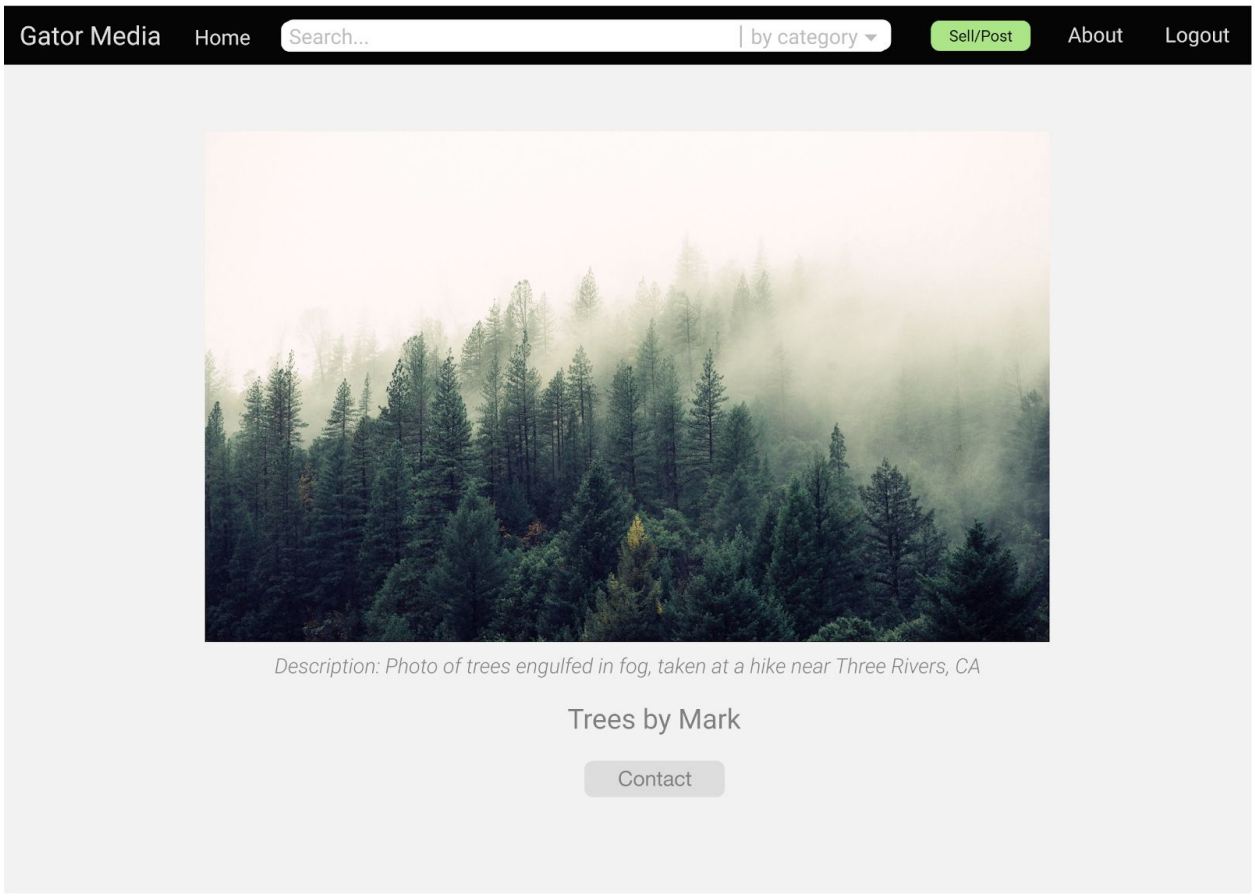
3. UI Mockups and Storyboards

Registered User:

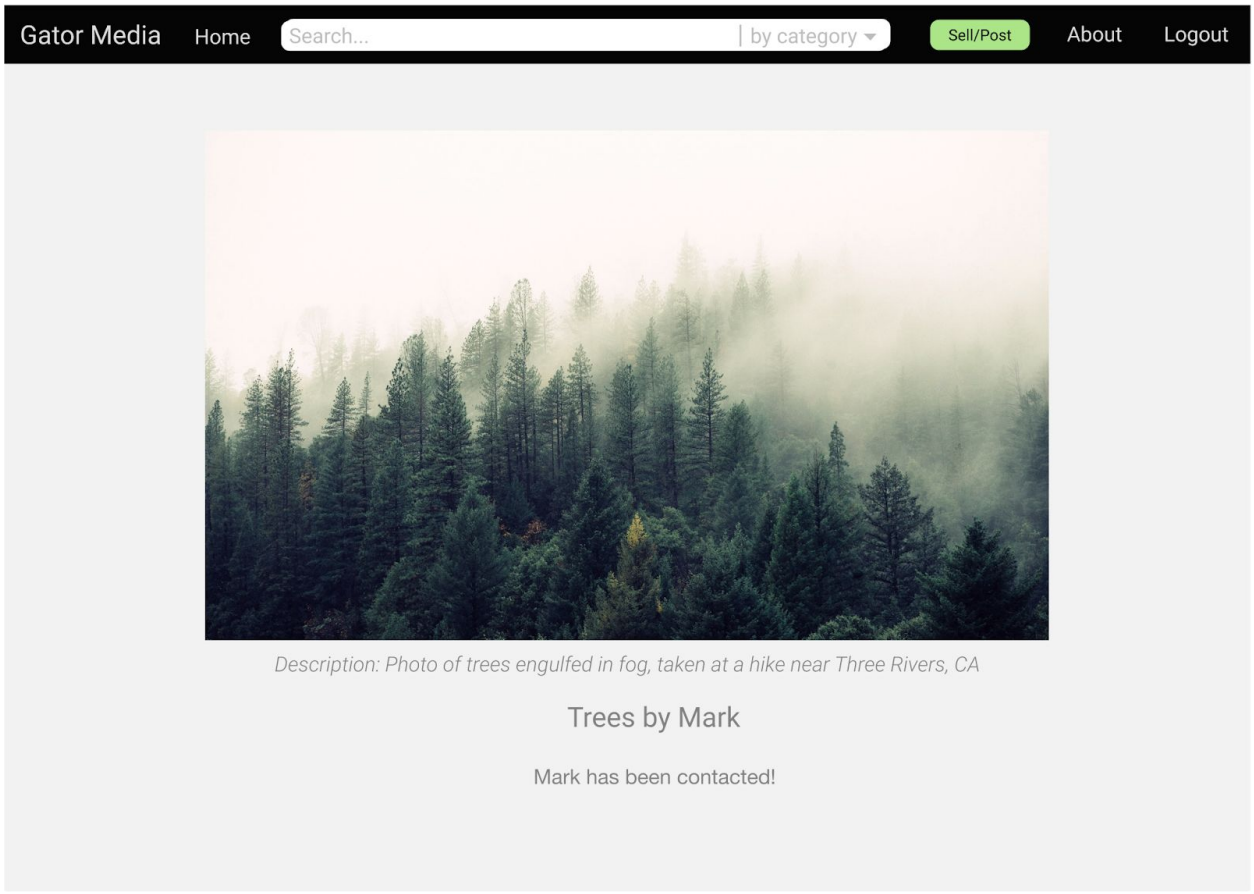
Kevin, who is already a registered user and is signed in, decides to visit the Gator media homepage. Kevin then decides to browse media content and clicks on Trees which are on the home page.



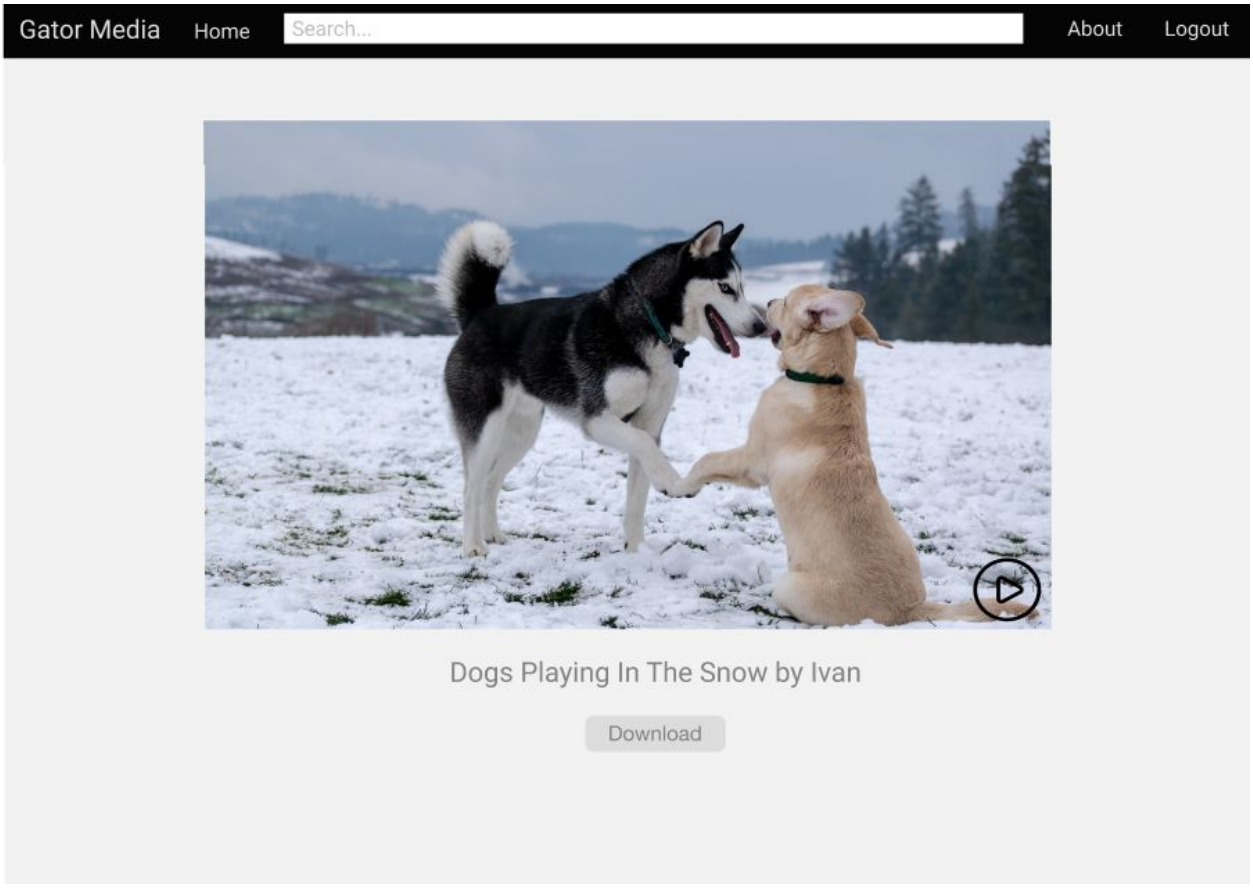
Kevin then clicks on the thumbnail of Trees in order to view the image and is shown the image with a contact option to purchase.



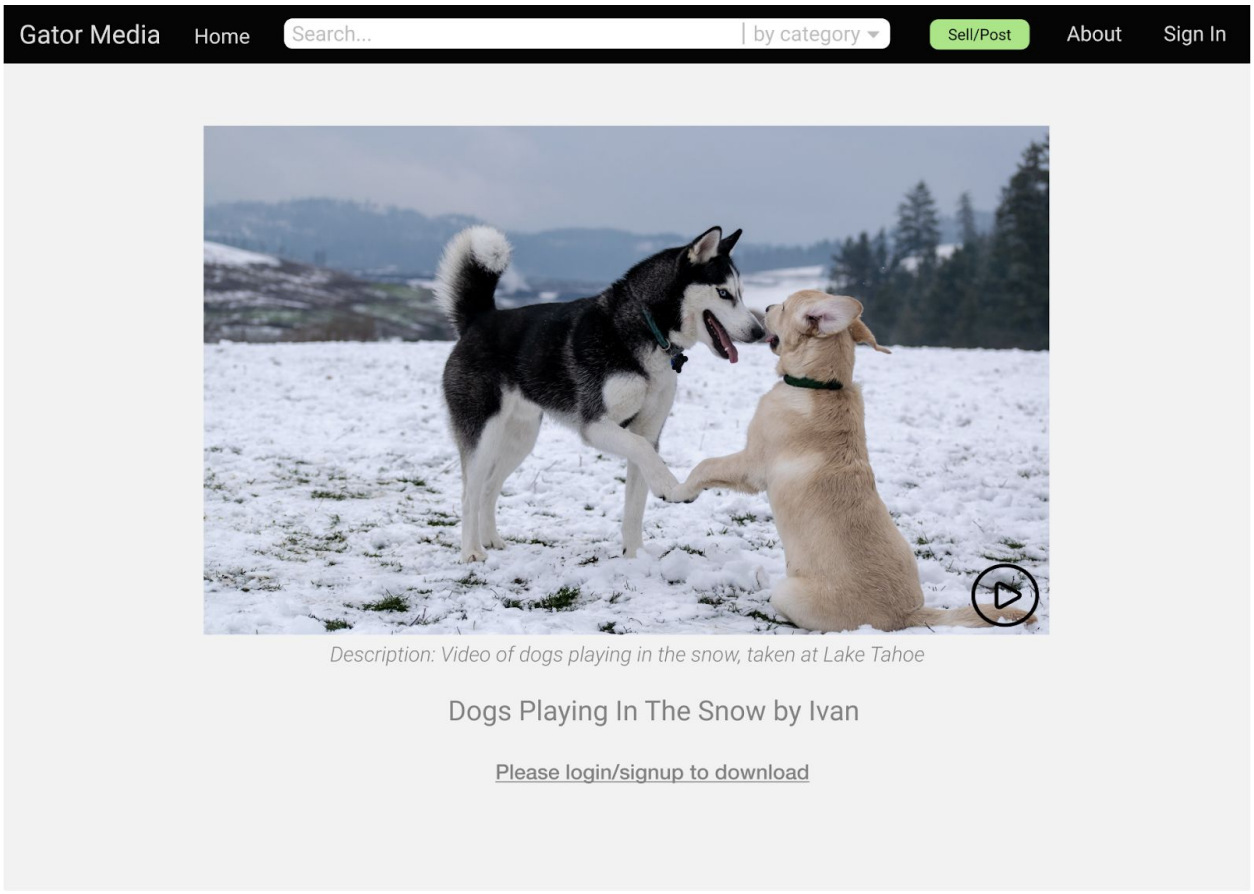
Upon clicking the “Contact” button, Kevin is shown a message indicating that the seller, Mark, has been contacted.



Kevin logs out and comes back to browse our site a few hours later. He finds free media content in the form of a video and is given a download option if he so chooses to download it.

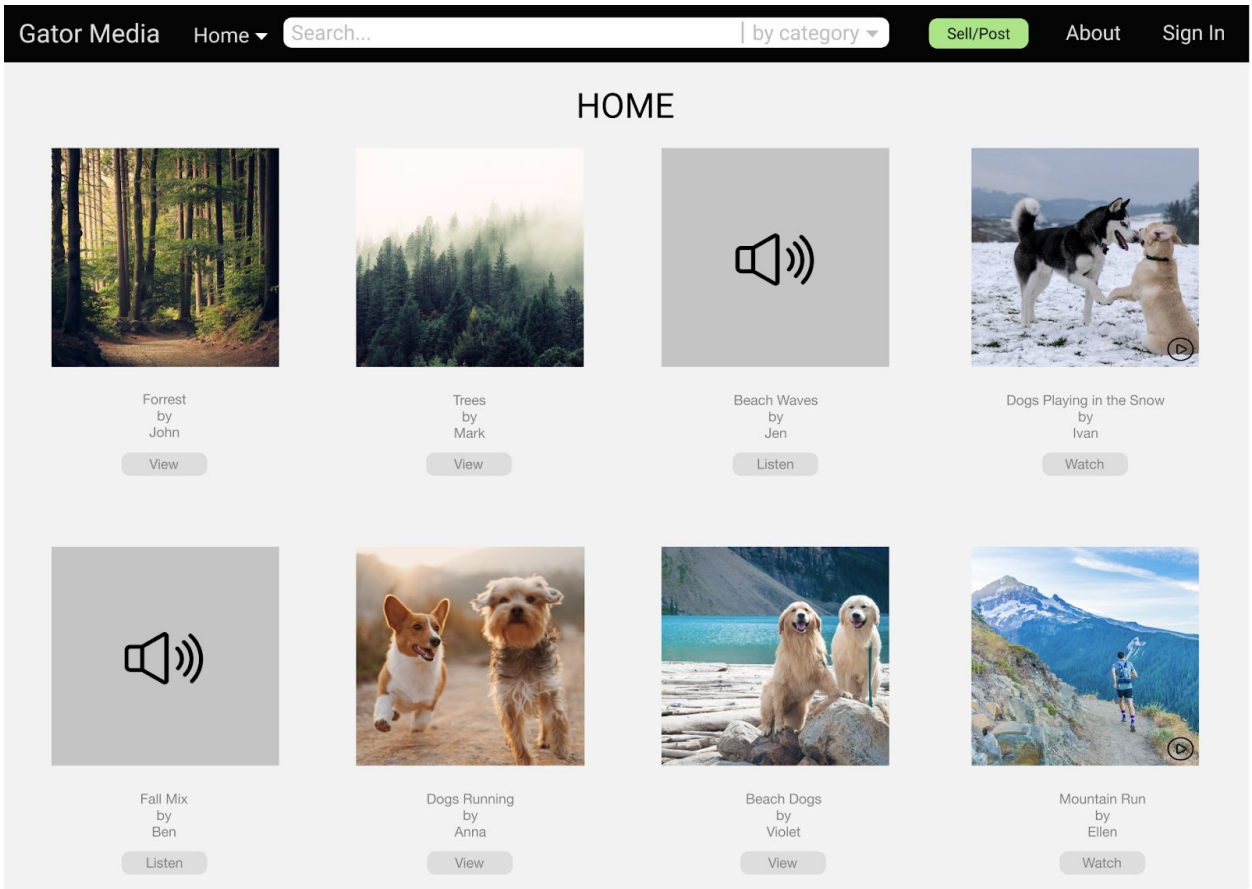


Upon pressing the “Download” button, Kevin is prompted to login/signup in order to download the free content.

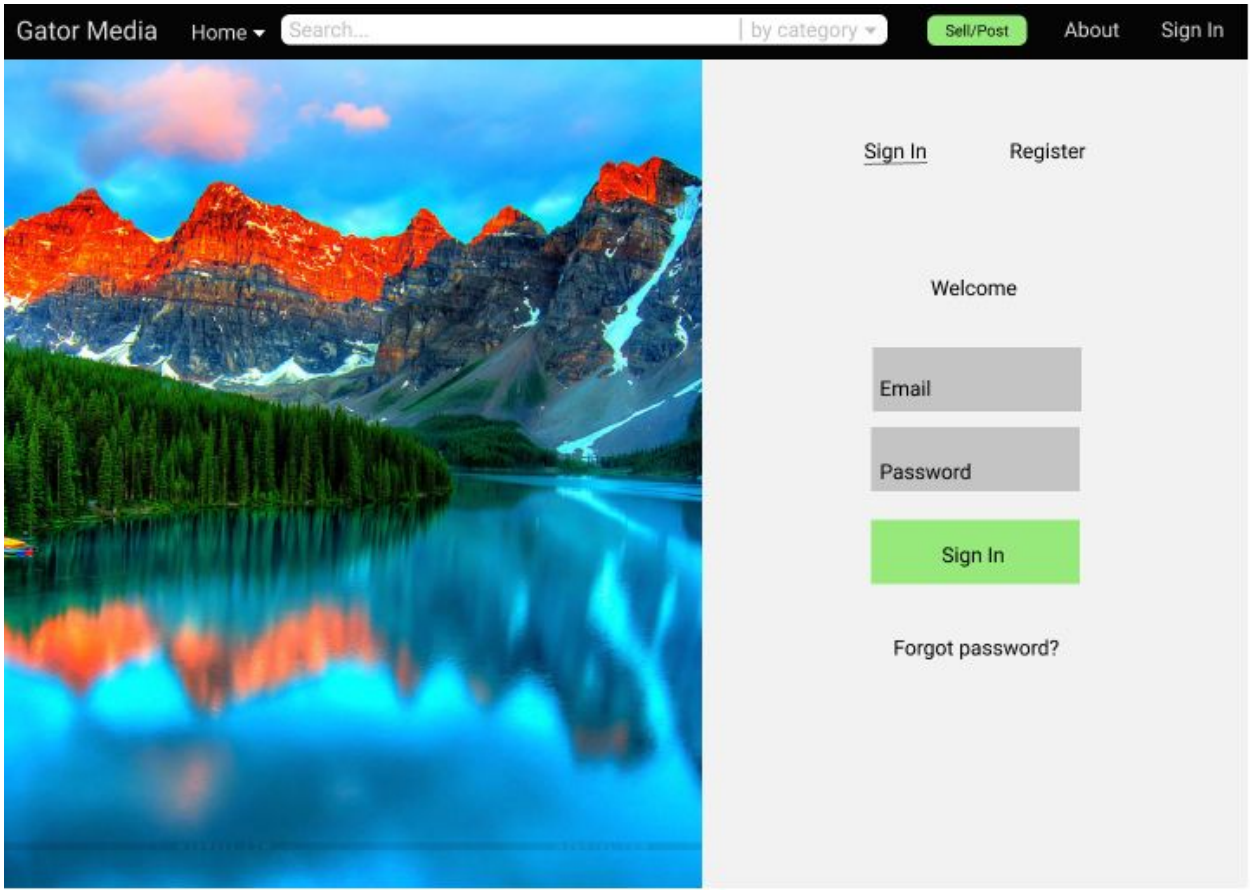


Non-Registered:

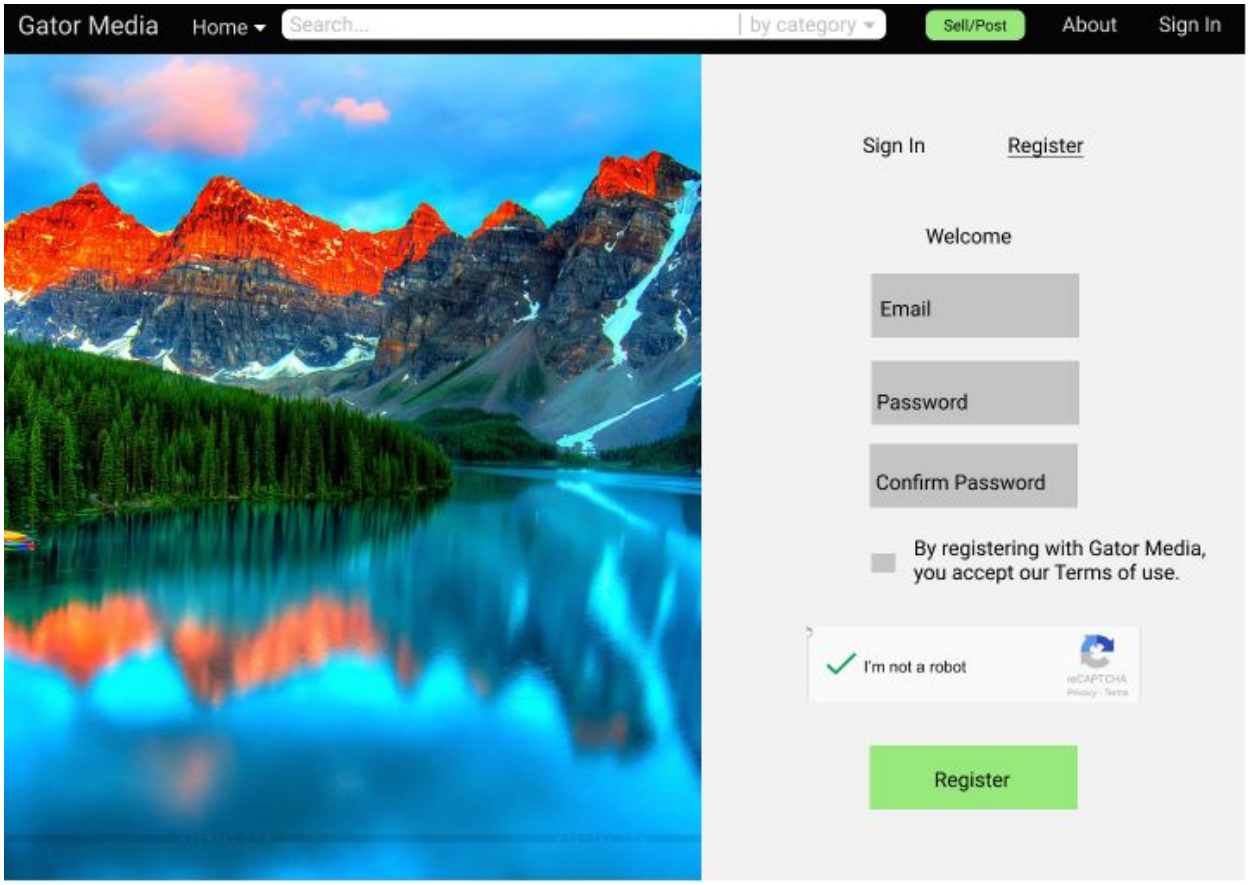
Crystal is looking for a site in which her students can sell media content on. Crystal decides to visit Gator Media in order to check it out. Crystal notices a sell/post button and knows she is able to sell media content on our site.



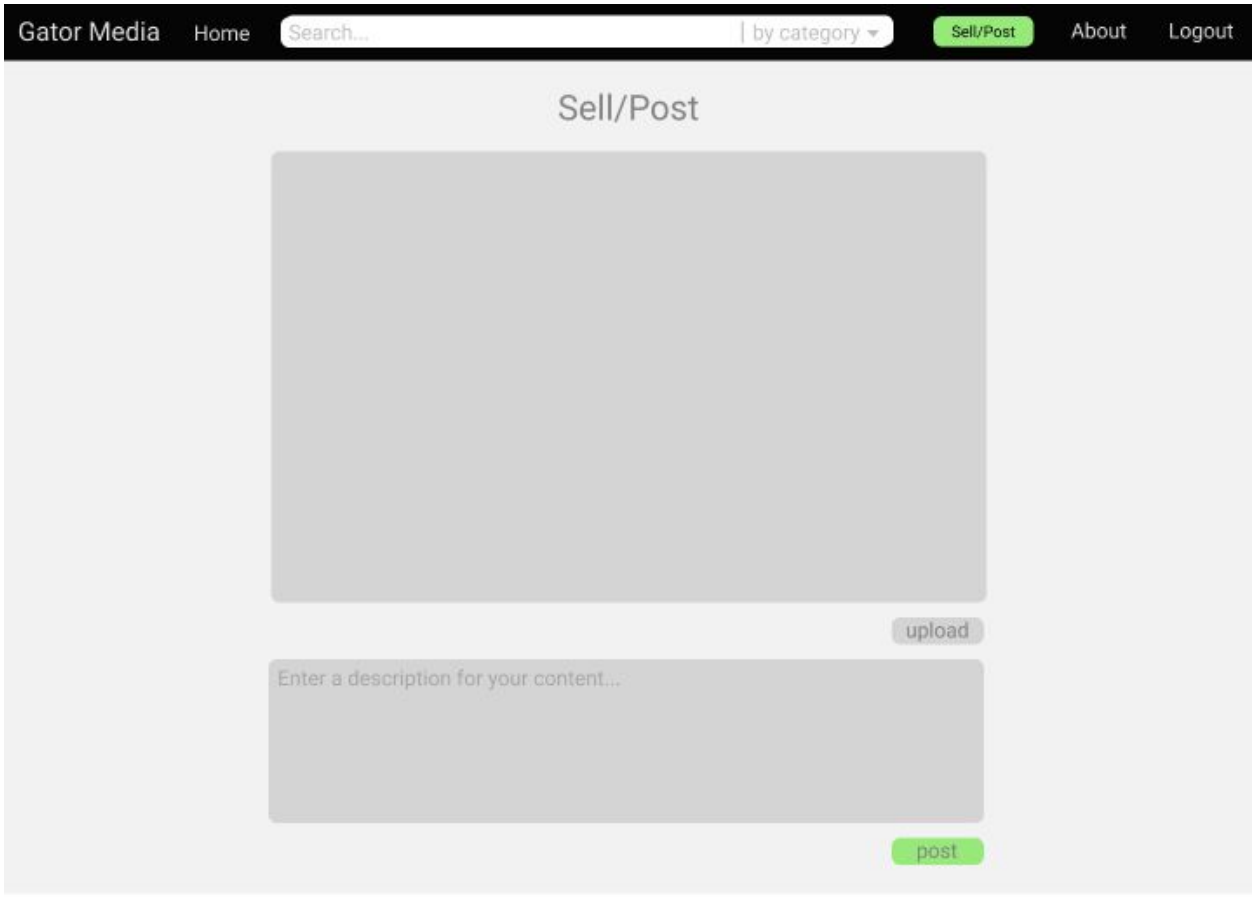
Crystal enjoys our site and finds it easy to use, so she decides to sign up. Crystal clicks on the Sell/Post but since Crystal is not signed in it redirects her to the Sign In / Register option.



Crystal wants to register, she clicks on the option and is prompted with information in order to register to Gator Media.



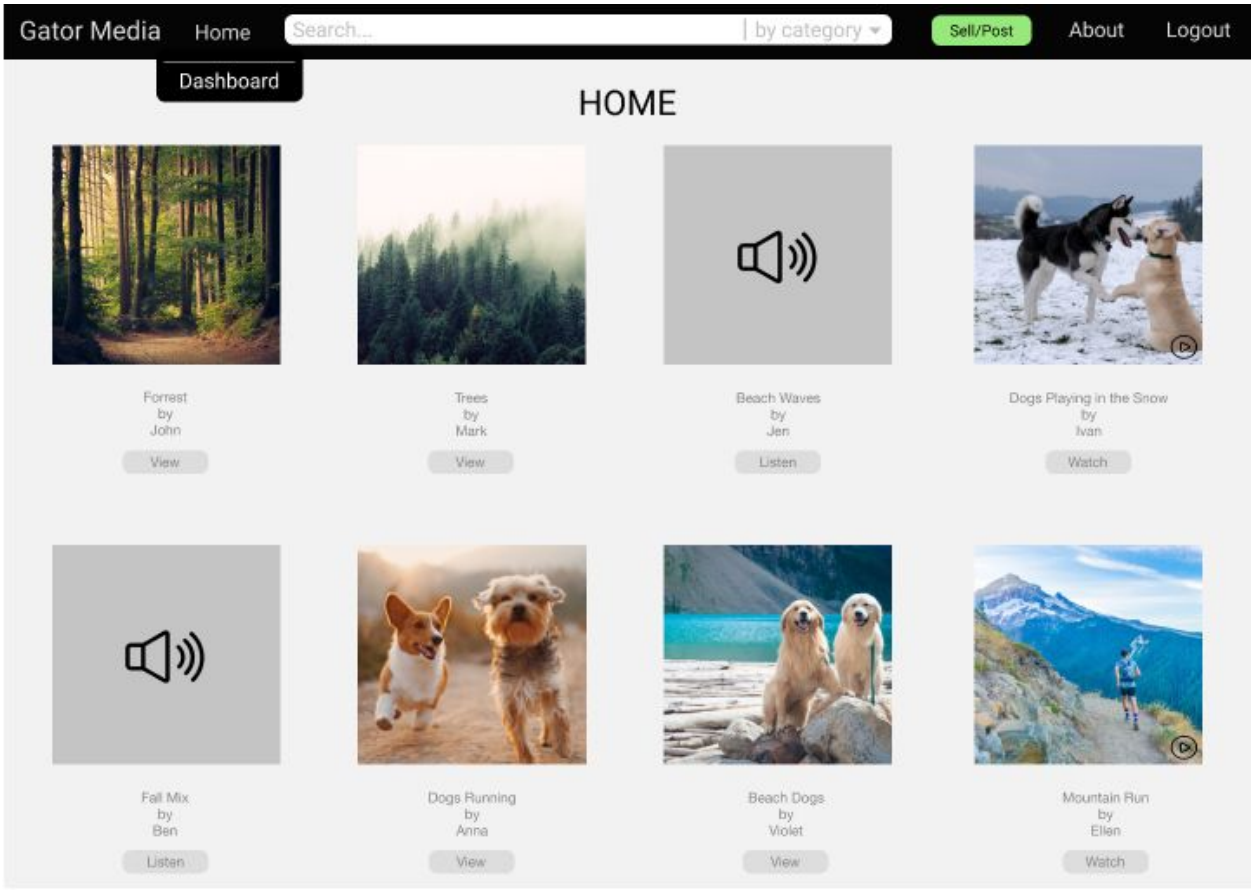
Crystal registers and then is signed in. Crystal then clicks on the Sell/Post option again and the Sell/Post page is displayed. Crystal is then able to upload her content to sell as well as add a description. Once Crystal posts her media content Crystal will need to wait for administrative approval.



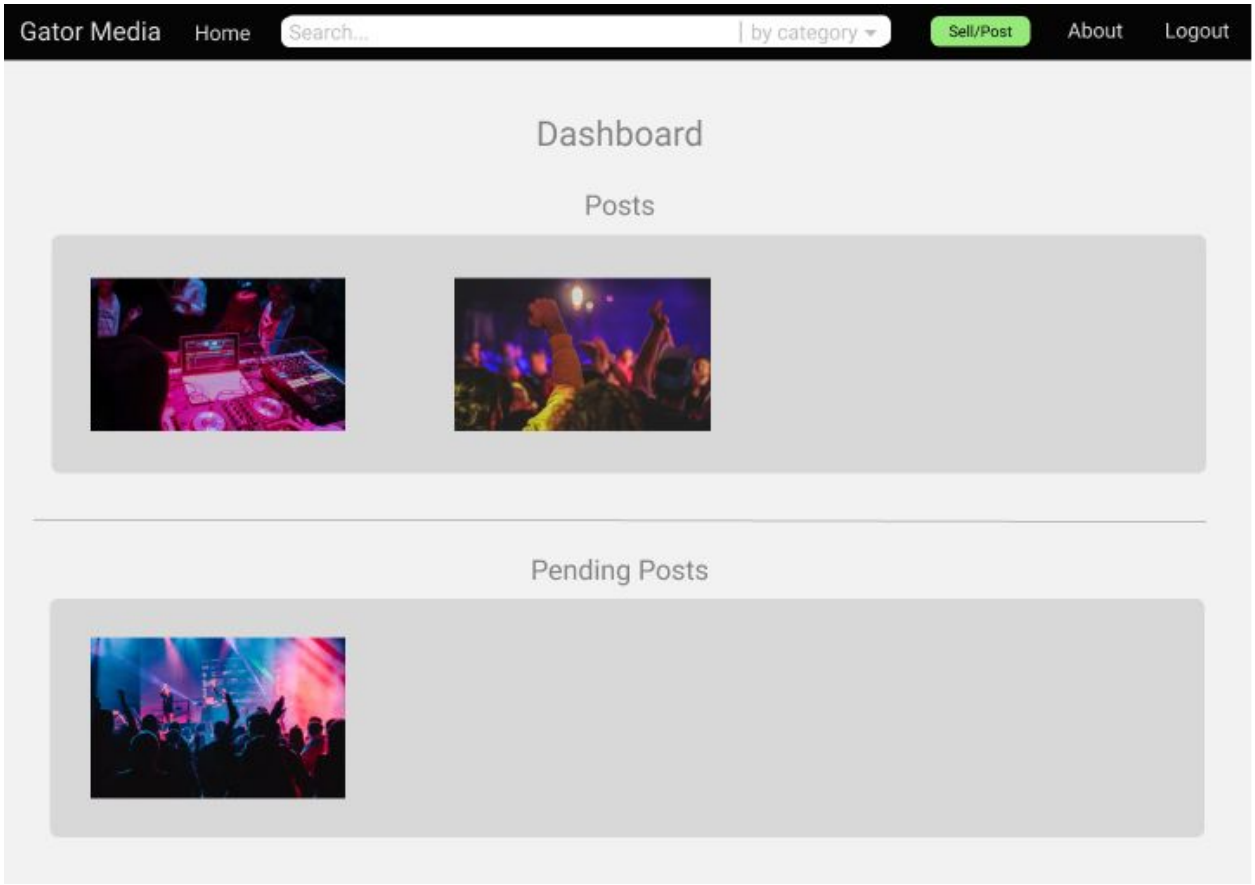
User Dashboard:

Kevin, who is already registered on our site, wants to look at the posts he currently has posted.

Kevin goes to the Home page and clicks on the home tab. Kevin is then shown a dashboard link.

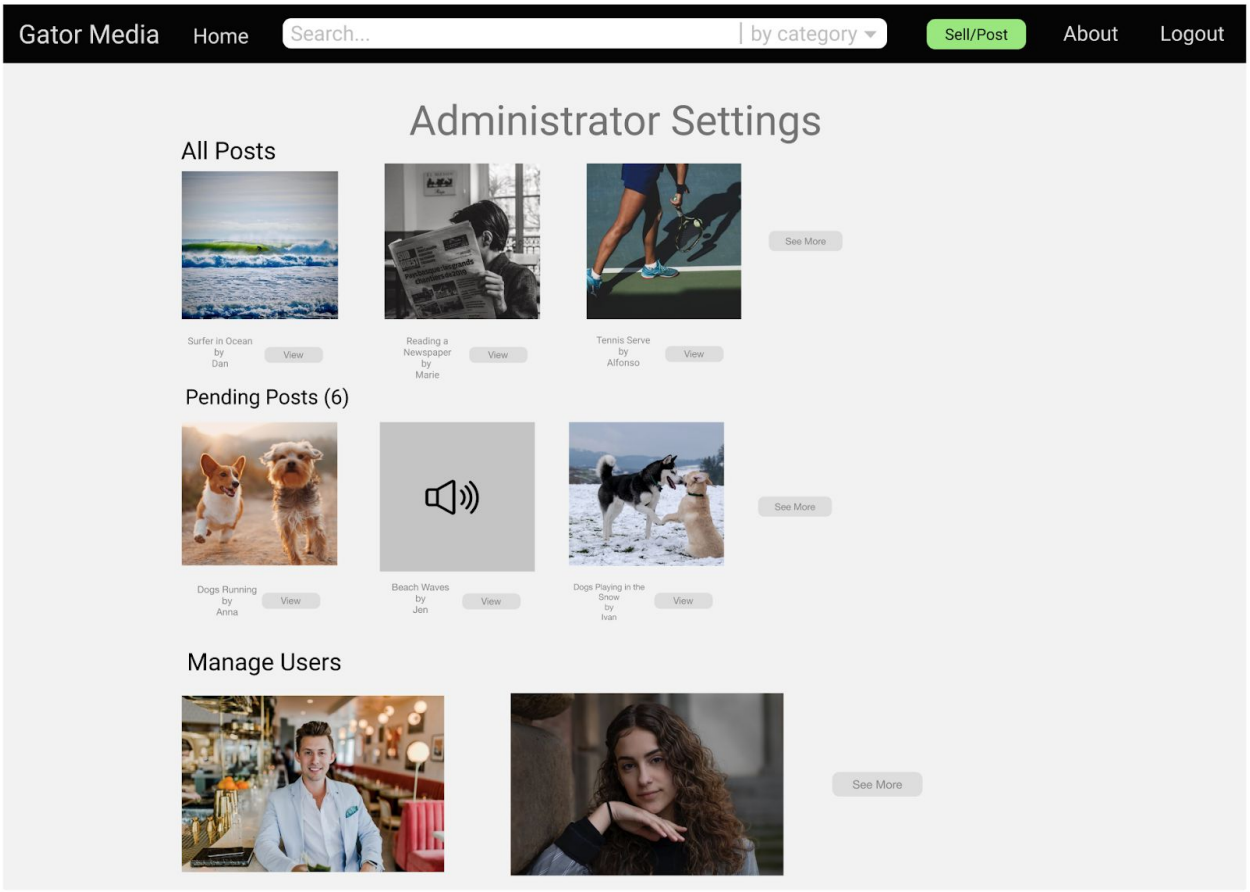


Once Kevin clicks on the dashboard link Kevin is redirected to the dashboard page, where he is shown his posts, as well as current pending posts.

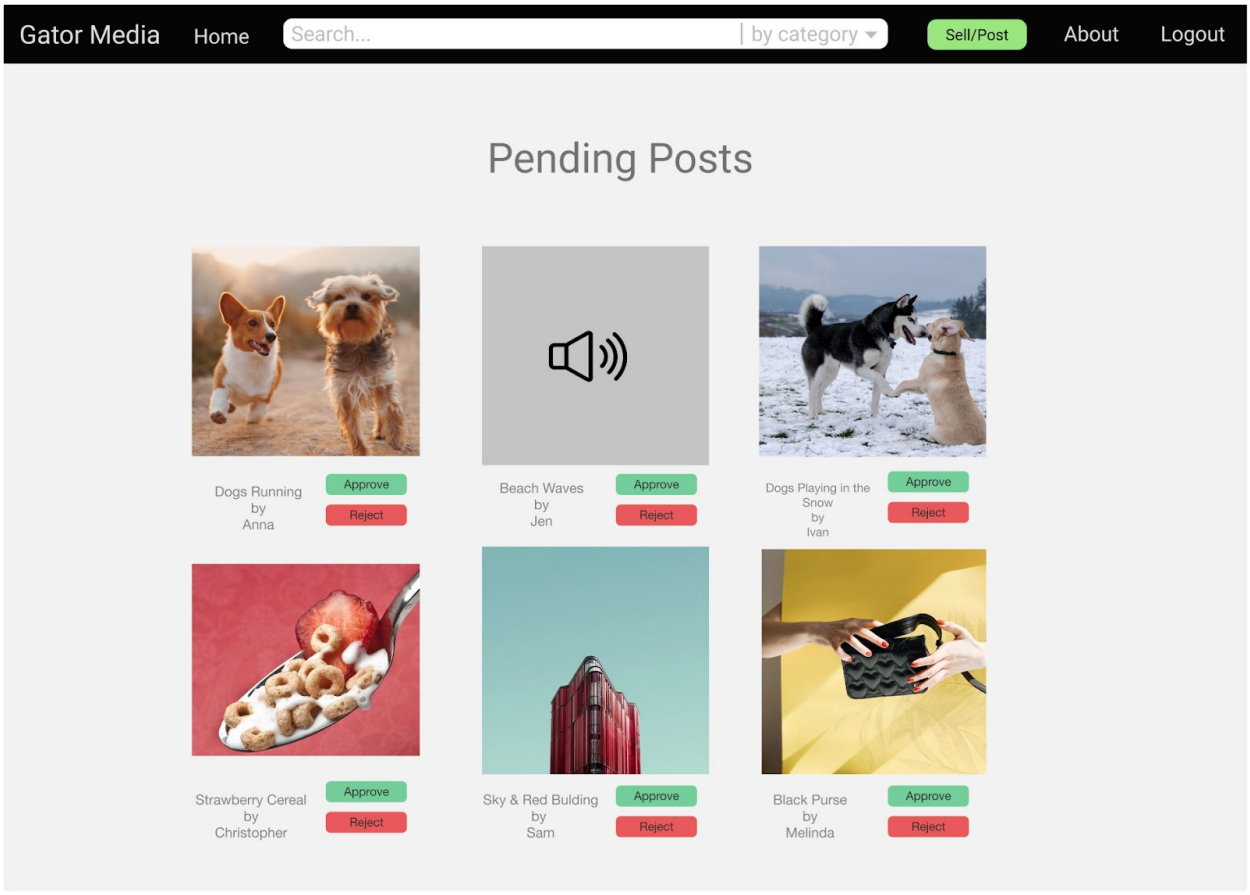


Admin:

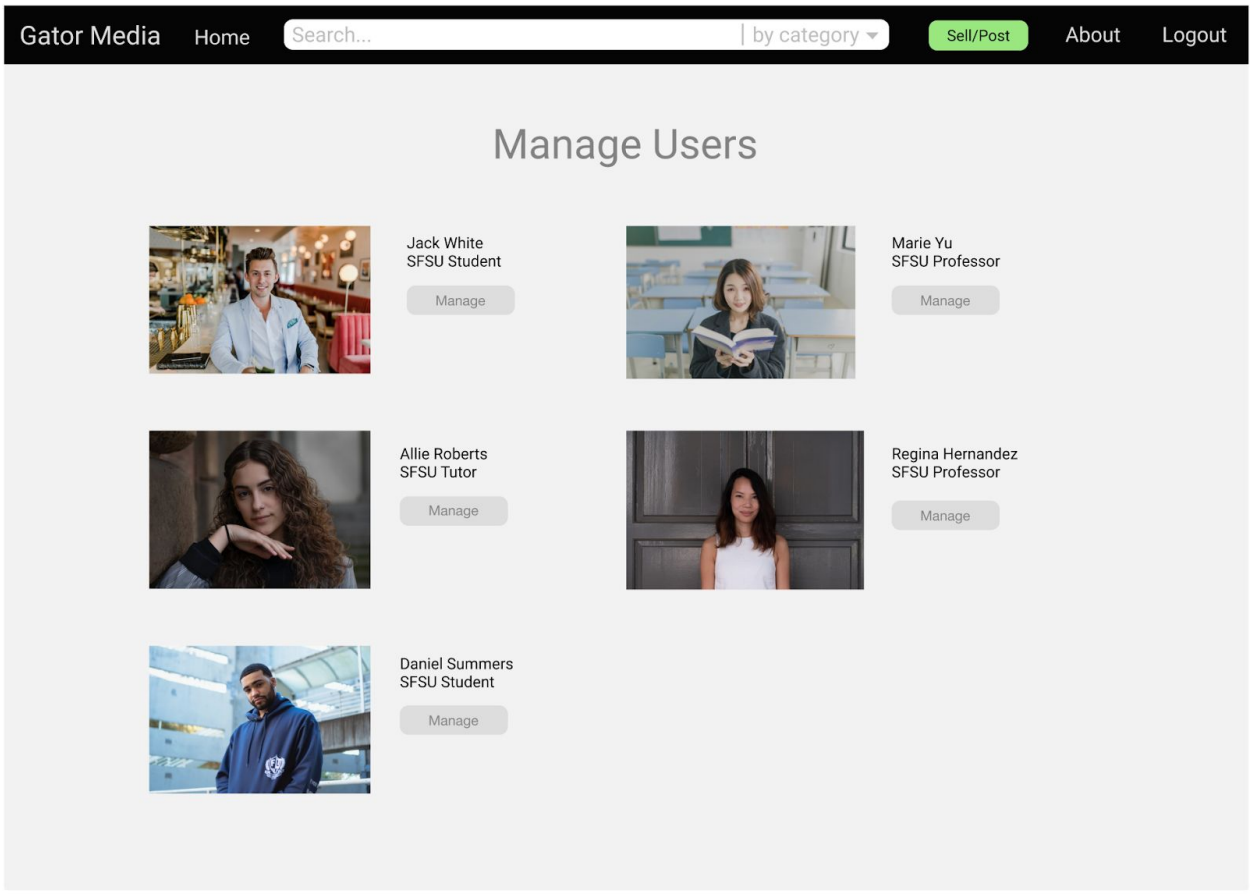
Kyle an Admin for Gator Media logs in to his administrator account and is shown his Administrator settings. He has three individual tabs for all posts, pending posts, and all users.



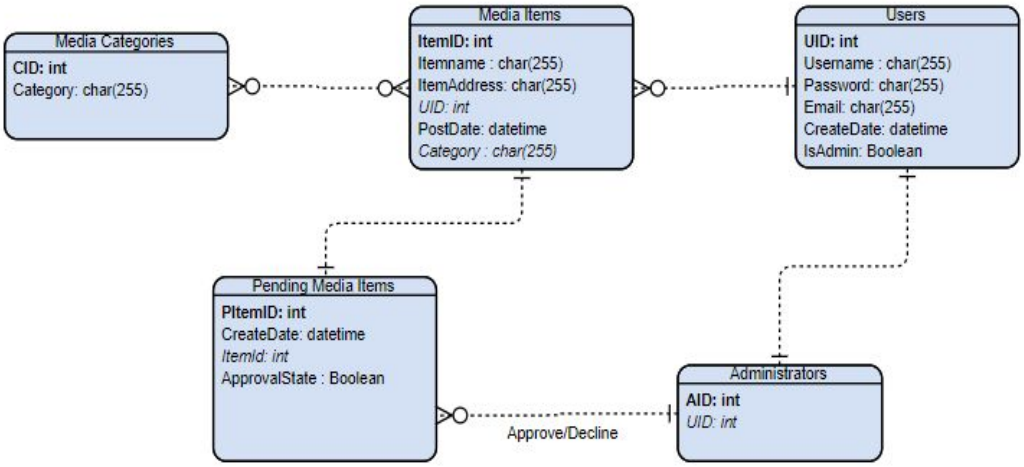
Kyle, being an Admin, wants to check for current pending posts that need to either be accepted and or rejected and then decides whether or not the media content being posted is appropriate for Gator Media. To make things easier, the approve and reject buttons are already visible to use.



Kyle who is also a main Administrator is able to view a Manage Users page where he is able to manage settings for each person who has registered on the website.



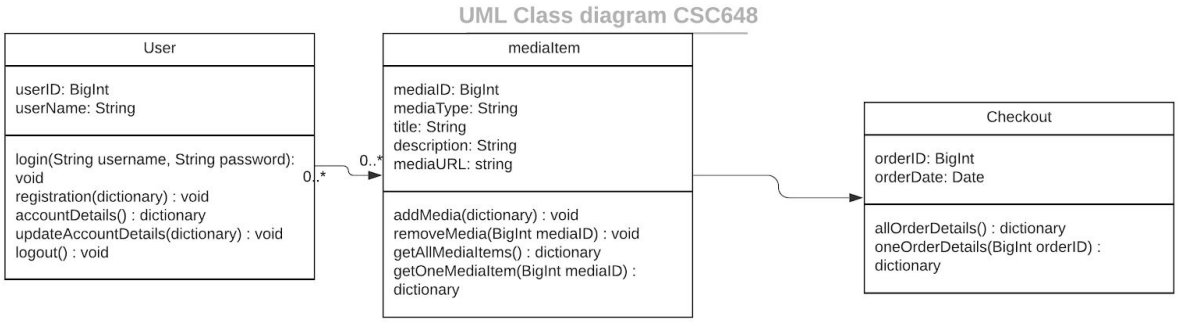
4. High level Architecture, Database Organization



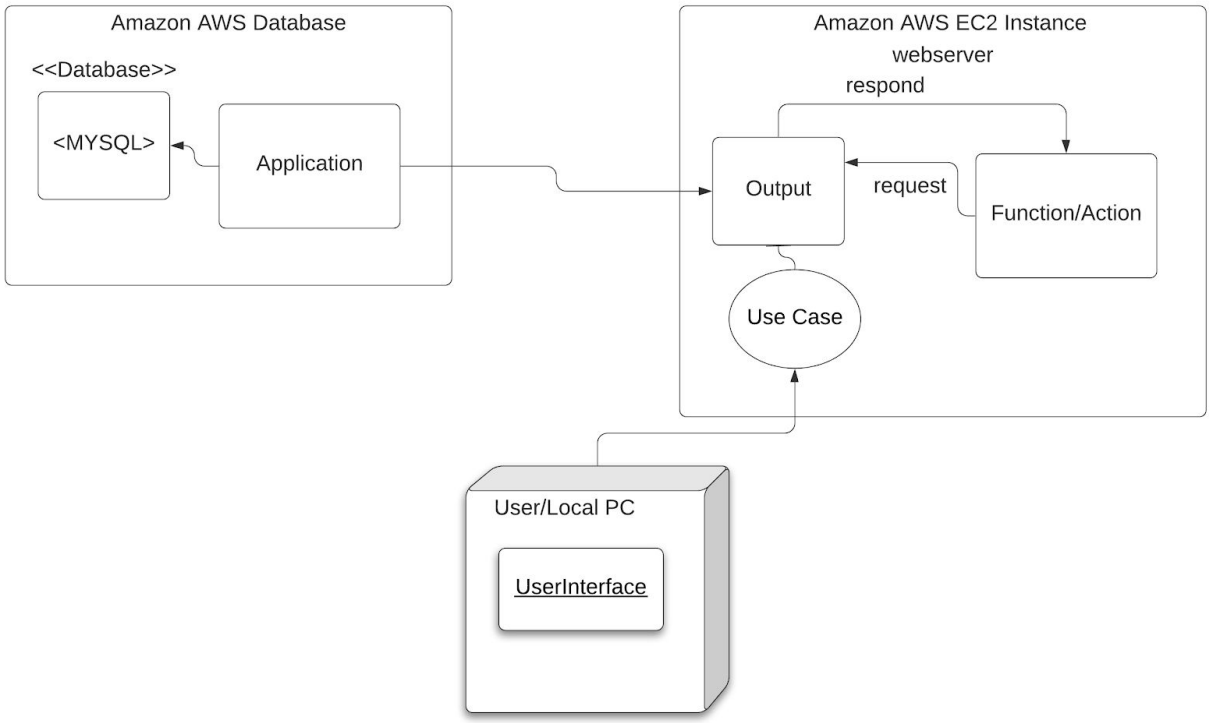
a. Media storage: Keep the video and audio in the file system, but store the file system address link in the database system/ MySQL.
b. For the search implementation we should be using the raw SQL language at first, but we will be using module and pg-promise to keep track/output the filter result.
c. No external API using for now.
d. For the non-trivial algorithm, we should have a different category of sort for the media, but sorting “created date” in descending order sequences by default.

5. High Level UML Diagram

Class Diagram:



UML Component and deployment diagrams:



6. Identify actual key risks for your project at this time

- Schedule - If the shelter-in-place advisories continue for our region, we may experience some delays in some services which may impact our progress. It is hard to foresee how this situation will change, and how it may affect any dependencies our website relies on. To address this issue, we will have to be flexible with our current situation and try to finish milestones in advance therefore we have time to address and resolve any issues we run into. It would also be beneficial if we implemented and supported features that fulfill predetermined requirements to keep our productivity high.

- Technical - With many different users, there is a high possibility our users will all have different operating systems as well as varying browsers which may affect the design and format of our website. On the front end of our website, we plan to use frameworks like bootstrap which work across a number of popular browsers.

- Teamwork - The shelter-in-place advisories taking place around the world will affect our ability to meet face-to-face and interact in person. At times, it can be easier to resolve issues and review features when all team members are in the same room. Our response to this involves meeting online through zoom video conference calls and maintaining constant communication through slack. Meeting summary emails are to be sent out after every meeting summarizing the conclusions and decisions made during the meeting, as well as tasks for all team members and due dates for milestones and assignments.

- Legal/consent - For demo purposes, we have used a website where consenting users upload their content for free use (unsplash.com). The website is designed around users uploading content on their own which makes it hard to catch every infringement before anyone has viewed or downloaded it. When a user signs up, they agree that all the content uploaded by them is theirs and they are not breaking any type of copyright laws. For added supervision, we have added administrators and given them the ability to approve or deny posts from users. When a user uploads a post, it is filtered into the pending posts where administrators can approve a post or deny it. This way, it has a chance to be reviewed before becoming live to the public.

7. Project management

We decided to use Trello in one of our first meetings as a group, and it has proven to be useful for all members in our group. We are able to divide the work evenly, and see the work that has been done versus the work that needs to be completed. Whenever we have been assigned a new milestone, we have set up a video conference call and divided the work based on members' skill levels and comfort levels.

For future tasks, we plan on following the same process of dividing the assignment into individual tasks. We will continue to use Trello to keep track of which members are responsible for certain tasks which promotes accountability. Of course we are always willing to help others with their task if needed. We utilize Google Drive to edit our documents, which allows us to collaborate much easier and seamlessly merge all our individual tasks into one.