

SW Engineering CSC648/848 Summer 2018

# PiCarousel Team 03

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This is a local team

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Milestone 2

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Revision:0

## Data Definitions V2

**Users:** are any people who want to upload, download or browse the Photos on the site.

**Unregistered users:** will only be allowed to browse the photos and register.

**Registered users:** will be allowed to upload or download photos.

**Photos** will be any picture file uploaded to the site by a registered user. The photos will be 3 quality levels HD, medium quality, and thumbnail.

**Thumbnail:** miniature version of the photos will be used to facilitate user navigation of the site.

**Account:** an account can be created by registering and will enable the user to store the pictures in the cart and have a browsing history and account creation will enable them to upload or download pictures.

**Username:** the user's email address will be their username.

**Password:** Users can create any password when they sign up.

**Email:** Users are required to have a valid email address in order to sign up.

**Advertise:** Users who upload pictures can have an opportunity to advertise their pictures by having them appear in searches and have customers view them.

**Upload:** Users will be able to post the pictures on the website once they register.

**Filters:** Users will be able to add filters to the pictures before downloading them if they desire.

**Search:** Users will be able to search using a keyword or search categories.

**Categories:** search categories will enable the user narrow down a search, categories may include, nature, dogs, cats, trees, flowers, paintings etc.

**Admin:** will be responsible for resolving any customer service issues on the sight. They will also be responsible for vetting/removing uploaded photos that are flagged for violating the sites terms of use.

**Delete:** The admin will be able to delete accounts that have been confirmed fraud or pictures that are flagged inappropriate.

Medium quality photos will be displayed in the carousels for users to browse.

HD photos will only be available for registered users to purchase, license and download.

Private Photos Private photos are photos that registered users maintain on the site but have not published for download and purchase

## Functional Requirements V2

### Priority 1:

#### **1. General Users**

- 1.1. search images by category.
- 1.4. will see top searched images.
- 1.6. will create an account to upload images.

#### **2. Registered Users have to login to upload images.**

- 2.2. shall do everything that unregistered user does.
- 2.3. shall upload images.
- 2.4. shall define the category of the images.
- 2.5. shall share images with other users
- 2.7. shall assign a title and content definition to his images.
- 2.9. shall delete images and albums.
- 2.12. shall download original images.
- 2.14. shall recover his password.

#### **3. Admin Users**

- 3.1. shall do everything that unregistered user does
- 3.2. will enforce licensing agreement
- 3.4. will approve the image to go online.
- 3.5. shall remove or publish user's images.
- 3.8. shall be able to remove photos that break terms of service

### Priority 2:

#### **1. General Users**

- 1.5. will see his recent browse history.

#### **2. Registered Users have to login to upload images.**

- 2.1. shall change images to black & white if it is not black & white.
- 2.6. shall change sharing privileges of his images or albums
- 2.8. shall create albums.
- 2.11. shall publish or suspend their images.

2.13. shall edit his account.

### **3. Admin Users**

3.6. shall suspend or remove user account.

3.7. shall change other user's passwords.

### **Priority 3:**

#### **1. General Users**

1.2. search images by image size.

1.3. search images by color type (black & white or colored).

#### **2. Registered Users have to login to upload images.**

2.10. shall edit image, category, title, content definition and privileges of his image.

#### **3. Admin Users**

3.3. shall create users and define their privilege.

## UI Mockups and Storyboards

### HOME PAGE (Arnold)

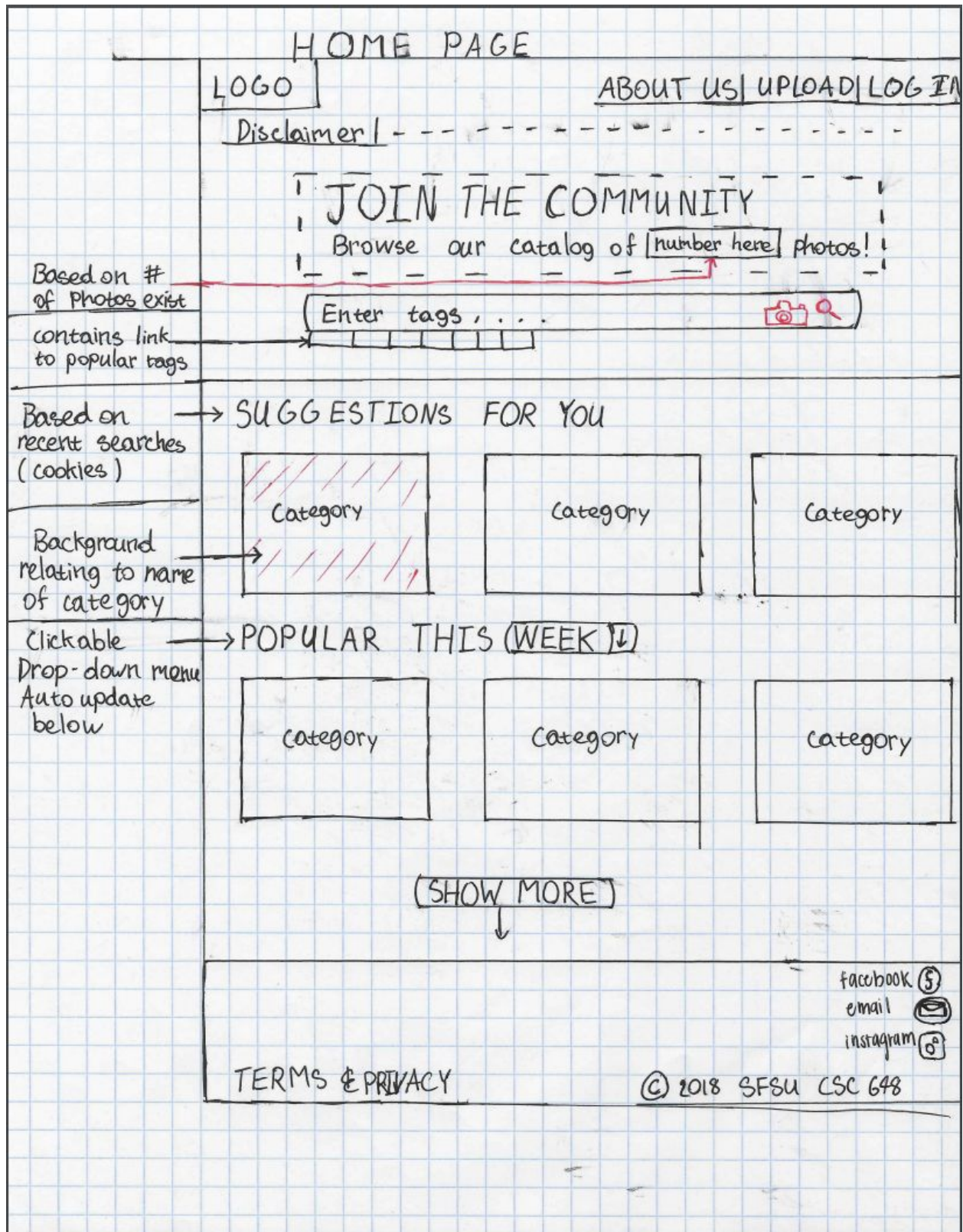
Some of the home page's main features are the search bar, large registration ad, category suggestions based on the user's online personality, and a footer holding information that can be used to contact the team.

In the search bar, there shall be 2 interactive icon buttons: the camera icon when clicked will open up an elevated menu with the ability to allow users to upload photos. If the user is not logged in at the time of the click event, the user will be prompted to login or register for an account. The magnifying glass icon will be a secondary event to query PiCarousel's catalog. There will also be small boxes containing clickable names of popular and past category searches from the user.

\*\* Please note that the navbar will not be located on this page as it is redundant to have multiple search bars.

In the body of the page will be an area for category suggestions to the user, these categories will include suggestions based on the user's personality (done via cookie tracking) and popular categories for a predefined time. For instance, the user shall be able to click on "Week", "Month", or "Year" and create a drop-down menu that shall enable to user to select the desired timespan. If the user wishes to show more popular categories, they can click on the "Show More" button which will populate and extend the home page with more popular categories.

Finally the footer will contain any and all information associated to contacting PiCarousel's social media team. The user shall also have the option to review the "Terms and Conditions" associated to use of PiCarousel.



## **SIGN IN**

When the user has browsed to upload or download pictures they will be prompted to Sign in or Sign Up in a pop-up window. The sign up will be quite simple asking the user to enter their name, email and create a new password and then re-enter that password. It will then have a captcha and a terms and conditions agreement statement. There will be an option to cancel at the bottom left and a big "Sign up" button to the bottom right.

## **SIGN UP**

If the user is a returning user (already an account holder), they can click on the Sign In tab on the top of the pop-up. This will enable them to login using their email and password. There will be a Forgot password option on the bottom as well in case the user needs it. The Sign In button will be on the bottom of that pop-up window.



## SIGN IN / SIGN UP

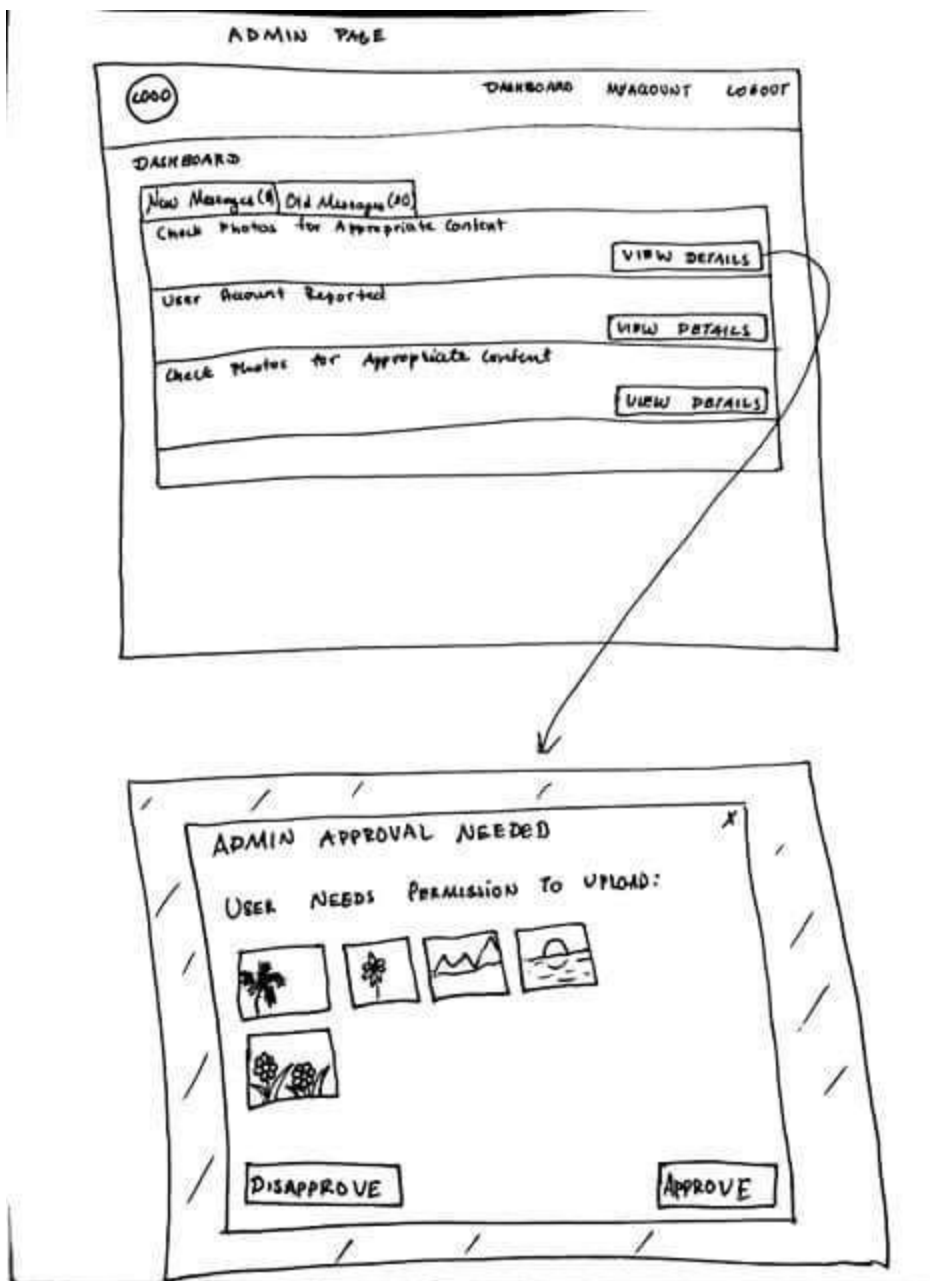
A hand-drawn sketch of a 'SIGN UP' form for 'PICAROUSEL'. The form is titled 'PICAROUSEL' with a close button 'X' in the top right corner. Below the title, there are two tabs: 'SIGN UP' (selected) and 'SIGN IN'. The form contains several input fields: 'NAME', 'EMAIL', 'Create Password', and 'Re-Enter Password', each with an asterisk indicating a required field. Below these fields, there is a 'Type' dropdown menu with options 'P', 'N', 'A', and 'A'. Below the dropdown, there is a 'captcha' label and a checkbox labeled 'I agree to ...'. At the bottom, there are two buttons: 'cancel' and 'SIGN UP'.

A hand-drawn sketch of a 'SIGN IN' form for 'PICAROUSEL'. The form is titled 'PICAROUSEL' with a close button 'X' in the top right corner. Below the title, there are two tabs: 'SIGN UP' and 'SIGN IN' (selected). The form contains two input fields: 'Email' and 'Password'. Below these fields, there is a link labeled 'Forgot Password?'. At the bottom, there is a button labeled 'SIGN IN'.



## ADMIN PAGE


The admin page has a similar header to the user's page. But instead of pictures the admin page will contain approval requests or flagged emails in forms of messages. The navigation bar contains the "Dashboard," "My Account" and a "Logout" button. The Dashboard will contain the messages sorted with the most recent on first. The administrator will be able to click on the "View Details" button and be able to see what the message is about. For example, if a user uploaded some pictures and needs approval. The pop-up window will display the pictures and have the options to "approve" or "disapprove" the pictures. If the admin approves them then the user's pictures should be visible on the website after that. If the admin disapproves, they will be prompted to contact the person who uploaded them regarding what is considered appropriate for PiCarousel.

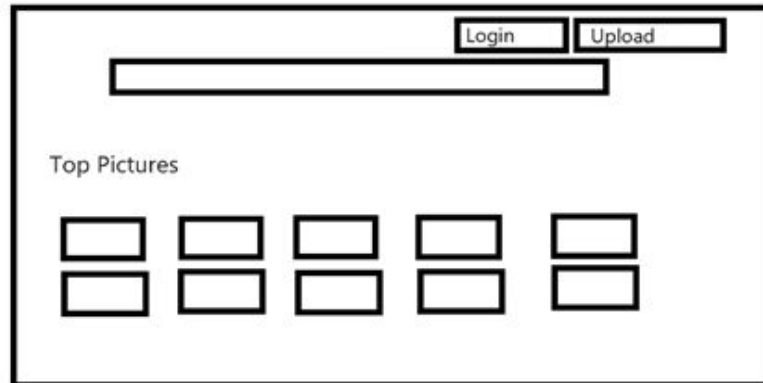


## User Cases Upload

Daniel is looking to make extra cash on the side by sharing his picture. He stumbles on our website. He is looking to see if our website offers uploads.

Daniel

	<b>FACTS:</b> <ul style="list-style-type: none"> <li>• 23 year old</li> <li>• Lives in Los Angeles, CA</li> <li>• Is a part time photographer</li> <li>• Needs an audience for his picture collections</li> <li>• Loves computers, and photography</li> </ul>
<b>BEHAVIORS</b> <ul style="list-style-type: none"> <li>• Spends hours outside in nature, taking pictures</li> <li>• Enjoys compliments for his pictures</li> <li>• Has a big collection of different kinds of pictures</li> <li>• Uses a professional camera for taking pictures</li> </ul>	<b>NEEDS AND GOALS</b> <ul style="list-style-type: none"> <li>• Wants to be able to deliver his pictures to people.</li> <li>• Wants to be able to advertise his pictures</li> <li>• Wants to know if his pictures are good</li> <li>• Wants to share and allow his audience to download his pictures.</li> </ul>



Daniel's experience first he will see is a big search bar down the middle. Second he will see that we post Top pictures of the week which can be extra motivation for him to join our website because he realizes that we advertise the top pictures of the week which can help his chances for being a renown photographer. But what's most important max will see what he came for right away. The Upload button in the Top Right. Which he **CLICKS ON**.

Daniel notices that in order for him to start uploading he has to simply register with us very quickly

Registration
First Name
Last Name
Email
password

After registration max is taken back to main page which he can now click and be able to upload

Daniel notice's right away is our layout is and start foward. All daniel has to do is either drag the photos he wants in the box. or click browse which will open directory window and can click on the pictures he wants to upload. Once he is done he will simply click upload. Which then will be reviewed by our admin. Then if all is good it goes live.

Upload	
<input type="text"/>	<input type="button" value="Browse"/>
<input type="button" value="upload"/>	

## User Case Download

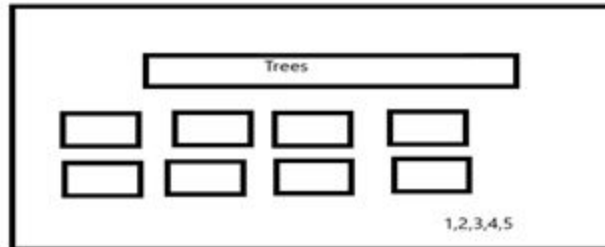
Ashley comes to our website to find pictures for her project she has an idea of what kind of photo she wants but also, wants to see some high quality pictures that might be helpful for her project.

<p>Ashley</p> 	<p>FACTS:</p> <ul style="list-style-type: none"> <li>• year old</li> <li>• Lives in San Francisco, CA</li> <li>• Goes to SF State</li> <li>• Has many friends</li> <li>• Needs a lot of pictures for her school projects</li> </ul>
<p>BEHAVIORS</p> <ul style="list-style-type: none"> <li>• Enjoys editing pictures</li> <li>• Likes to browse through pictures to find the best ones for her projects</li> <li>• Likes to use <u>PS</u> to save pictures to her favorites list and download them later.</li> <li>• Usually uses a PC to edit or save the pictures.</li> </ul>	<p>NEEDS AND GOALS</p> <ul style="list-style-type: none"> <li>• Would like to be able to browse for images easily</li> <li>• Wants to be able to download and use the pictures for her projects.</li> <li>• Wants to have the ability to edit and filter the pictures to make them look better according to her liking.</li> </ul>

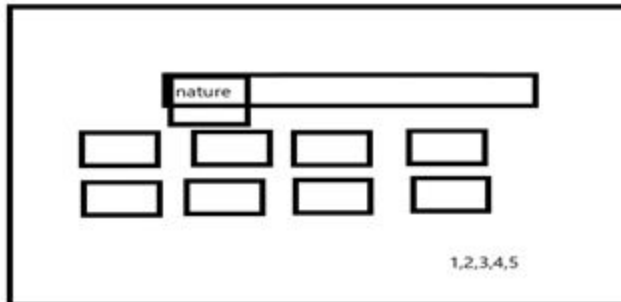
Login		Upload	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
nature			
Top Pictures			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

First thing Ashley see's is a big search bar down the middle where she can search for what she wants now Ashley has two choices she can type trees in the search bar or she can search by category from our top down menu and choose nature to expand and see more pictures. Also Ashley will see that we have a top picture of the week from our upload users and she can pick out a picture that catches her interest.

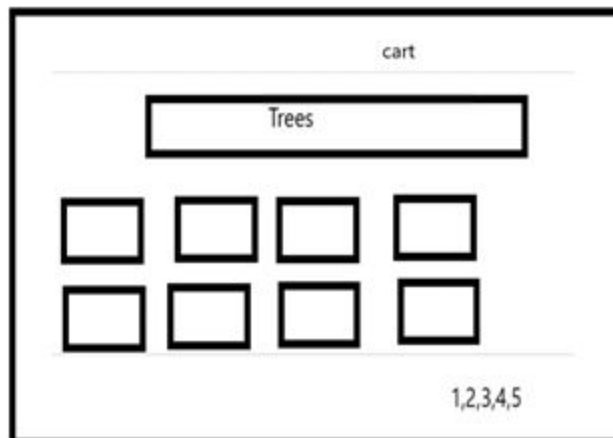
Ashley searches trees and then our search bar takes her and shows her the 10 pictures and then she can also scroll and see 10 more down right.



Ashley searches by our down menu. Now she gets not just trees but all our photos that are related to nature like animals and trees.

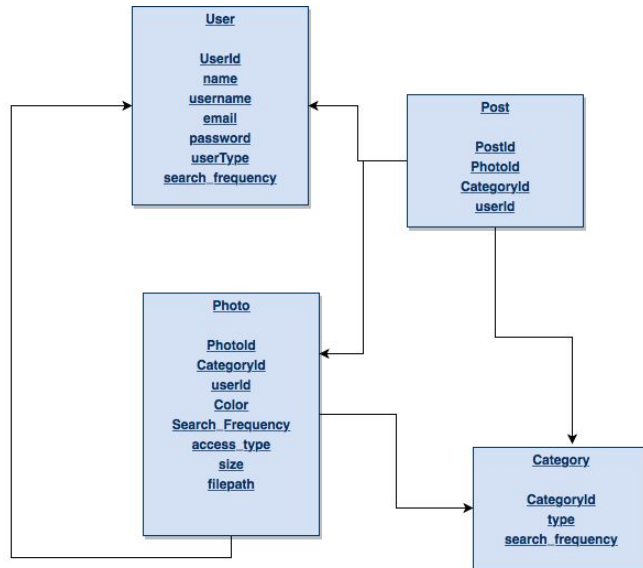


Ashley picks what pictures she wants when she clicks on a picture it brings a big pop-up of that picture and if she likes it she can click add to the cart. When, she finds what she wants for example she add 5 pictures to cart all she will see number 5 on the cart icon and then she can click the cart icon to download



## High level Architecture, Database Organization

### HIGH LEVEL DATABASE DESIGN

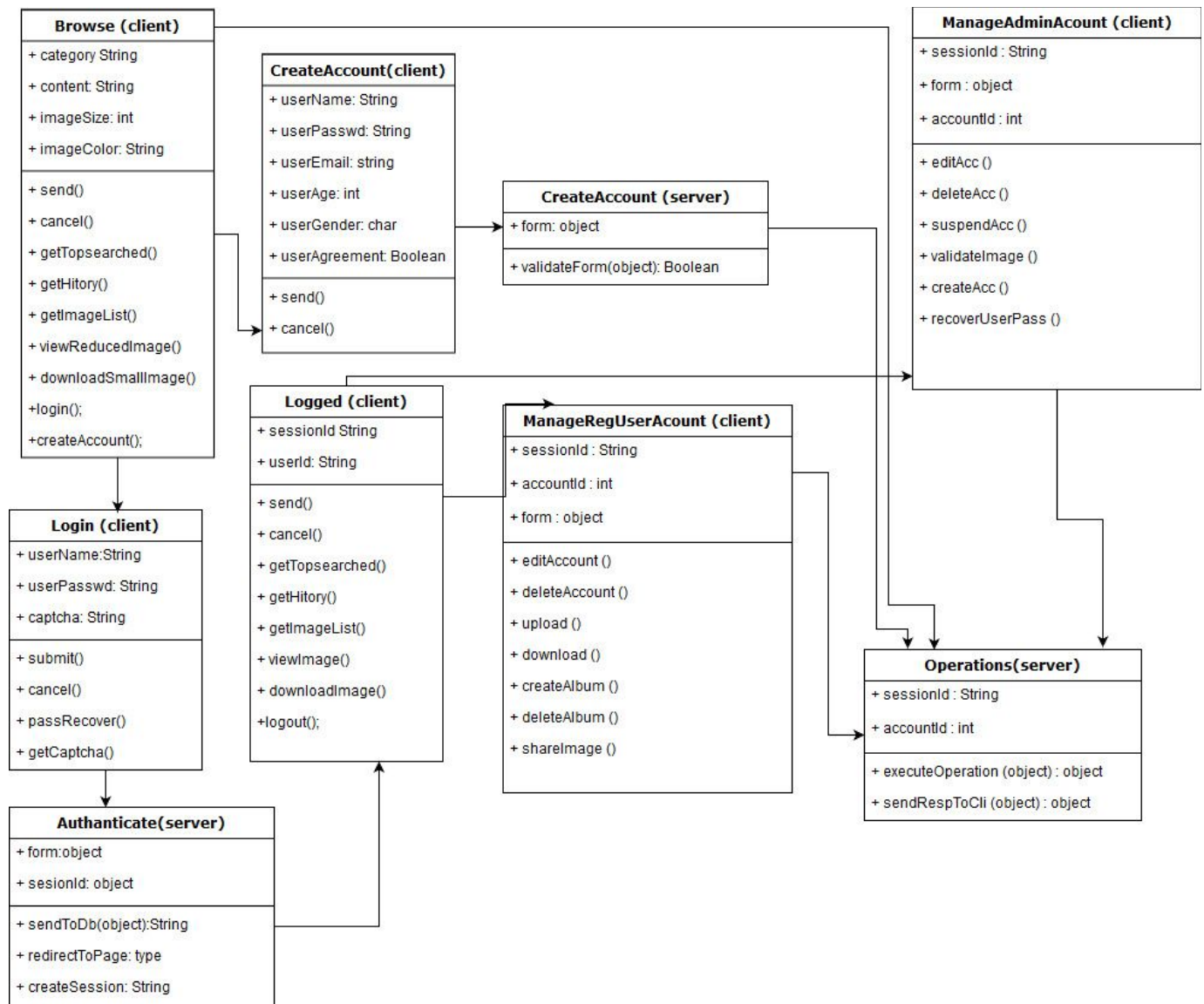


## High level UML Diagrams

Familiarize yourself with Unified Modeling Language (UML). Find your favorite UML tutorials from the Internet. One good one is <http://edn.embarcadero.com/article/31863>

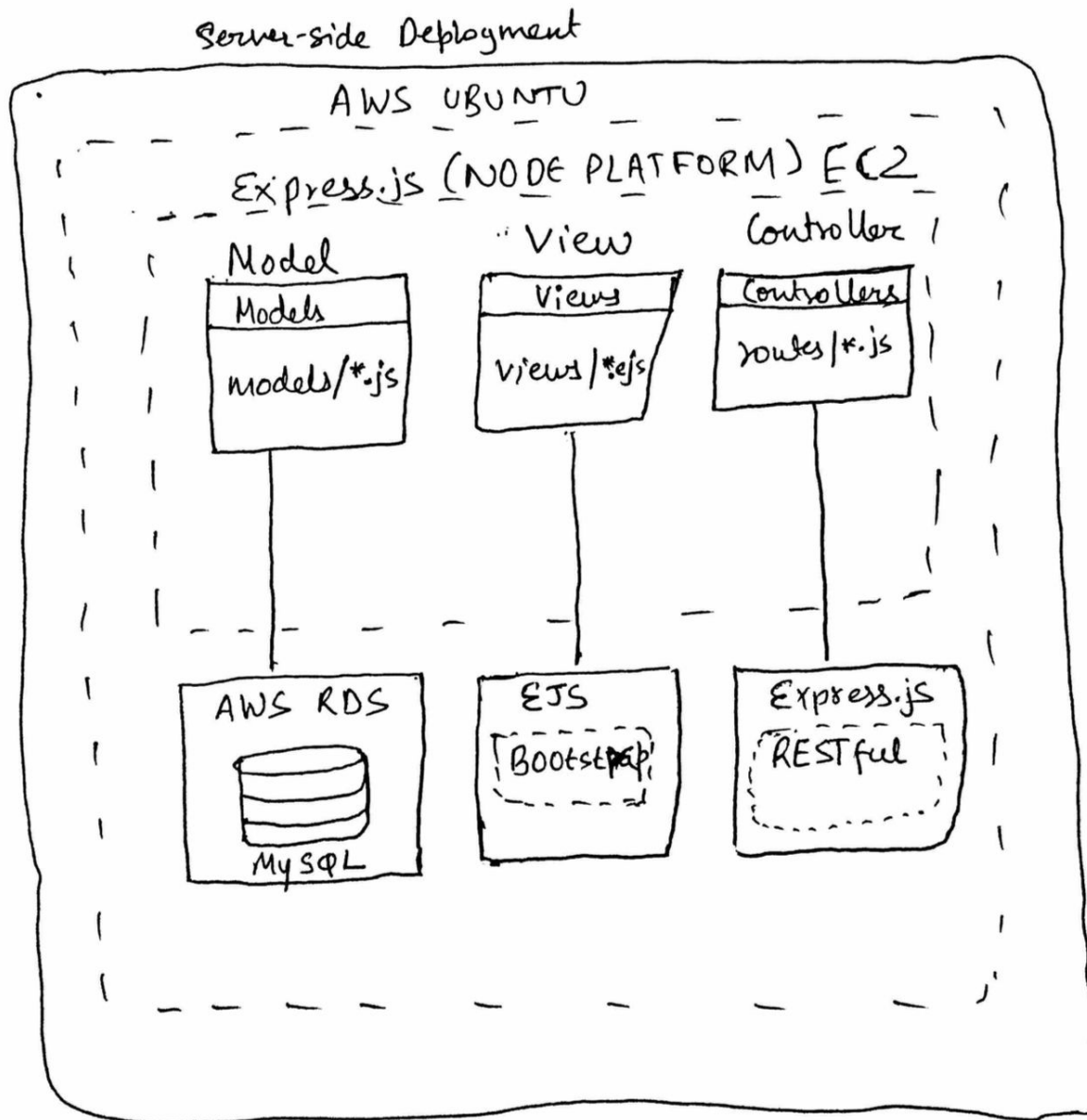
For Milestone 2 provide only:

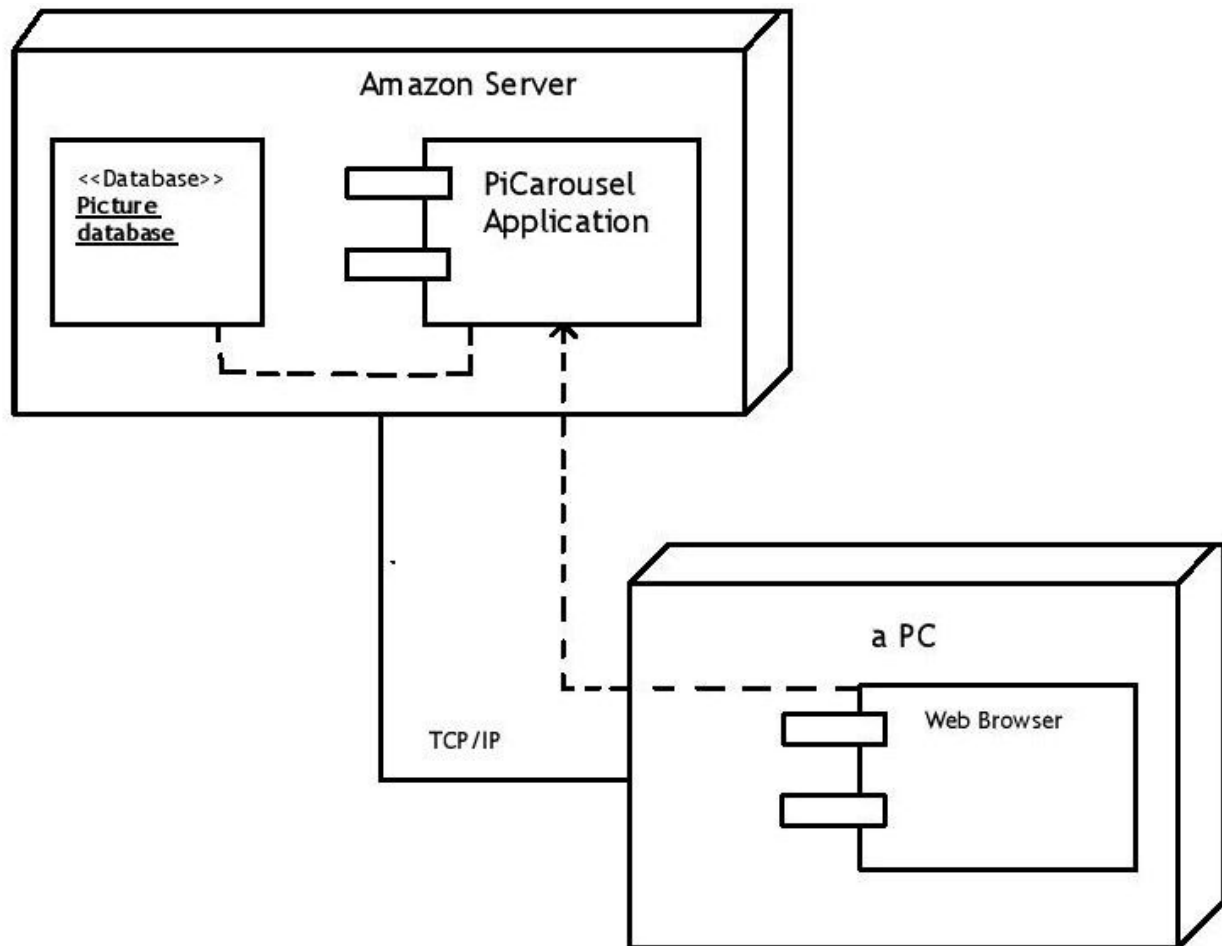
a) High-level UML class diagrams





## b) UML Component and deployment diagrams





## Key Risks

### **Skills Risks:**

Most members of our group have little to no experience using a large number of the tools that we are using for our project. This risk has the potential to slow production since this project is accelerated as a Summer course it greatly constrains how much time we have to learn new tools.

### **Resolution:**

We are all helping each other as needed and learning the tools as we build the site. It is not possible for us to completely mitigate this risk since most of us don't have much experience building a web page we have little collective knowledge to draw on.

### **Schedule Risks:**

I don't think we have scheduled anything more than we can handle. Our schedule, while fast paced is not unmanageable.

### **Technical Risks:**

The only technical risks we have identified so far have been handled. We had a lot of issues setting up our server correctly but we sorted those issues out during Milestone 1 and do not foresee any more server issues. The remainder of the possible issues we may encounter are still unknown largely due to our mentioned skills risks.

### **Resolution:**

We have already resolved our server issues. Any further issues we encounter as we understand our tools better and implement them will be solved by timely communication of the issue and re-prioritizing the issue as necessary.

**Teamwork Risks:**

Our only current teamwork risk stems from personal schedule conflicts. We are all very busy with our classes and several of us work on top of that. This has made it difficult for us to actually get together as a team outside of class hours.

**Resolution:**

We have been mitigating the conflicts by using Discord voice chat to meet up and discuss issues as often as possible to maintain good team communication.

**Legal/Content Risks:**

None. We have all of the SW we need to produce our project and we can produce our own content without risking any legal/licensing issues.