

SW Engineering CSC648/848 Summer 2018

PiCarousel Team 03

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Milestone 2

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Revision:1

Data Definitions V2

Unregistered users: will only be allowed to browse the photos, search 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. The images uploaded will be formatted as either .png or .jpg.

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.

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.

Upload: Users will be able to post the pictures, and add descriptions 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, also image type, size and author, etc.

Admin: will be responsible for resolving any customer service issues on the site. They will also be responsible for vetting uploaded photos before they are viewable on the site.

Functional Requirements V2

Priority 1:

1. General Users

- 1.1. Shall be able to search images by category.
- 1.6. Shall be able to create an account to upload images.

2. Registered Users have to login to upload images.

- 2.2. Shall be able to search images by category.
- 2.3. Shall be able to upload images.
- 2.4. Shall be able to define the category of the images.
- 2.8. Shall be able to delete images.
- 2.10. Shall be able to download original images.

3. Admin Users

- 3.1. Shall be able to search images by category.
- 3.4. Shall be able to approve the image to go online.
- 3.5. Shall be able to remove user's images.

Priority 2:

1. General Users

- 1.5. Shall be able to see their recent browse history.
- 1.3. Shall be able to search images by color type (black & white or colored).
- 1.4. Shall be able to see top searched images.

2. Registered Users have to login to upload images.

- 2.1. Shall be able to change images to black & white if it is not black & white.
- 2.5. Shall be able to change sharing privileges of their images or albums
- 2.6. Shall be able to assign a title and content definition to his images.
- 2.7. Shall be able to create albums.
- 2.11. Shall be able to edit their account.
- 2.12. Shall be able to recover their password.

3. Admin Users

- 3.2. Shall be able to enforce licensing agreement.



3.6. Shall be able to suspend or remove user account.

Priority 3:

1. General Users

1.2. Shall be able to search images by image size.

2. Registered Users have to login to upload images.

2.9. Shall be able to edit image, category, title, content definition and privileges of his image.

3. Admin Users

3.3. Shall be able to create users and define their privilege.

UI Mockups and Storyboards

HOME PAGE

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 the following fields and elements:

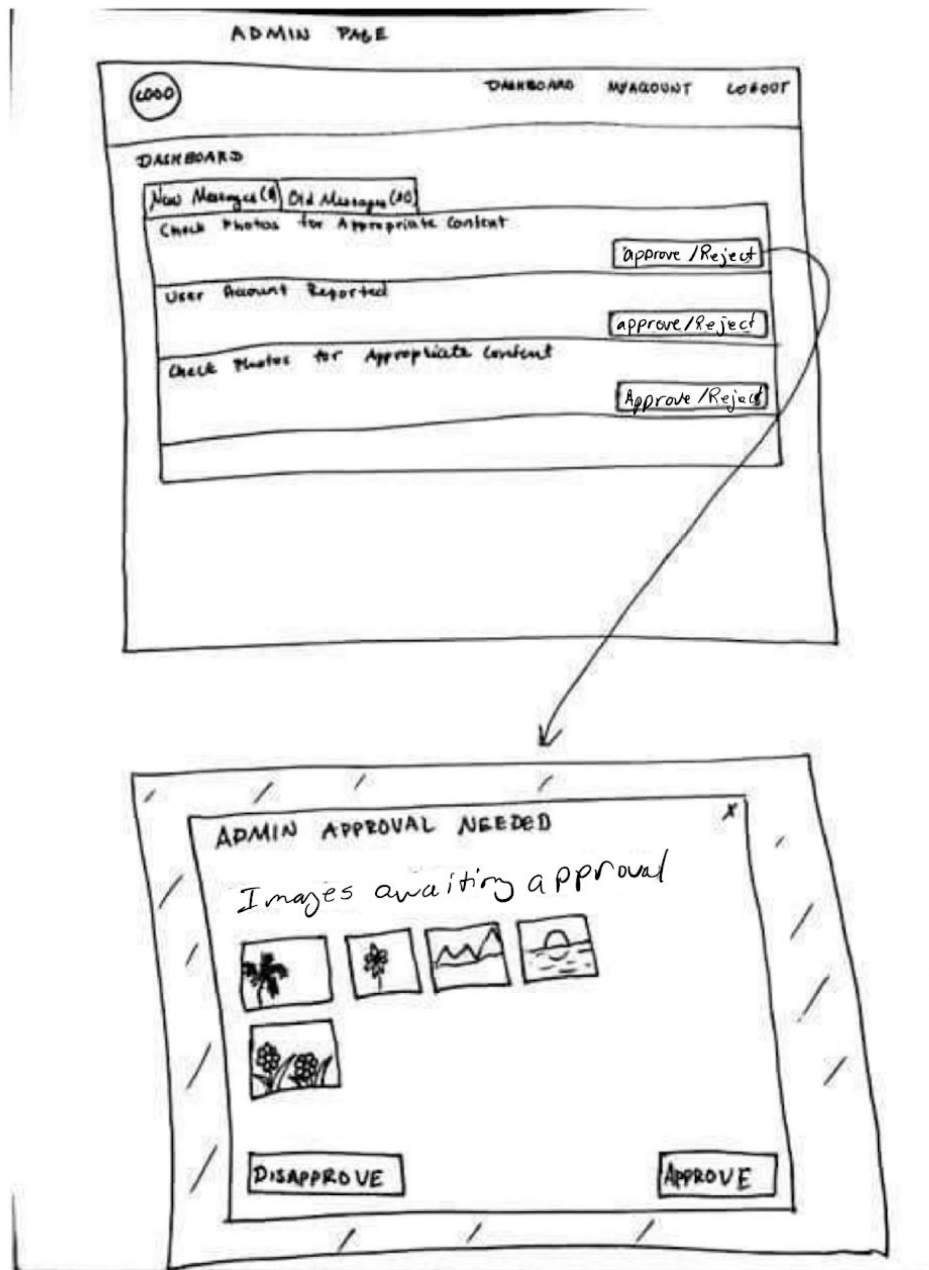
- NAME (with an asterisk indicating it is required)
- EMAIL (with an asterisk indicating it is required)
- Create Password (with an asterisk indicating it is required)
- Re-Enter Password (with an asterisk indicating it is required)
- Type (with a dropdown menu showing 'P', 'N', 'A', and 'A')
- captcha
- ☐ I agree to ...
- cancel button
- SIGN UP button

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 the following fields and elements:

- Email
- Password
- Forget Password?
- SIGN IN button

ADMIN PAGE

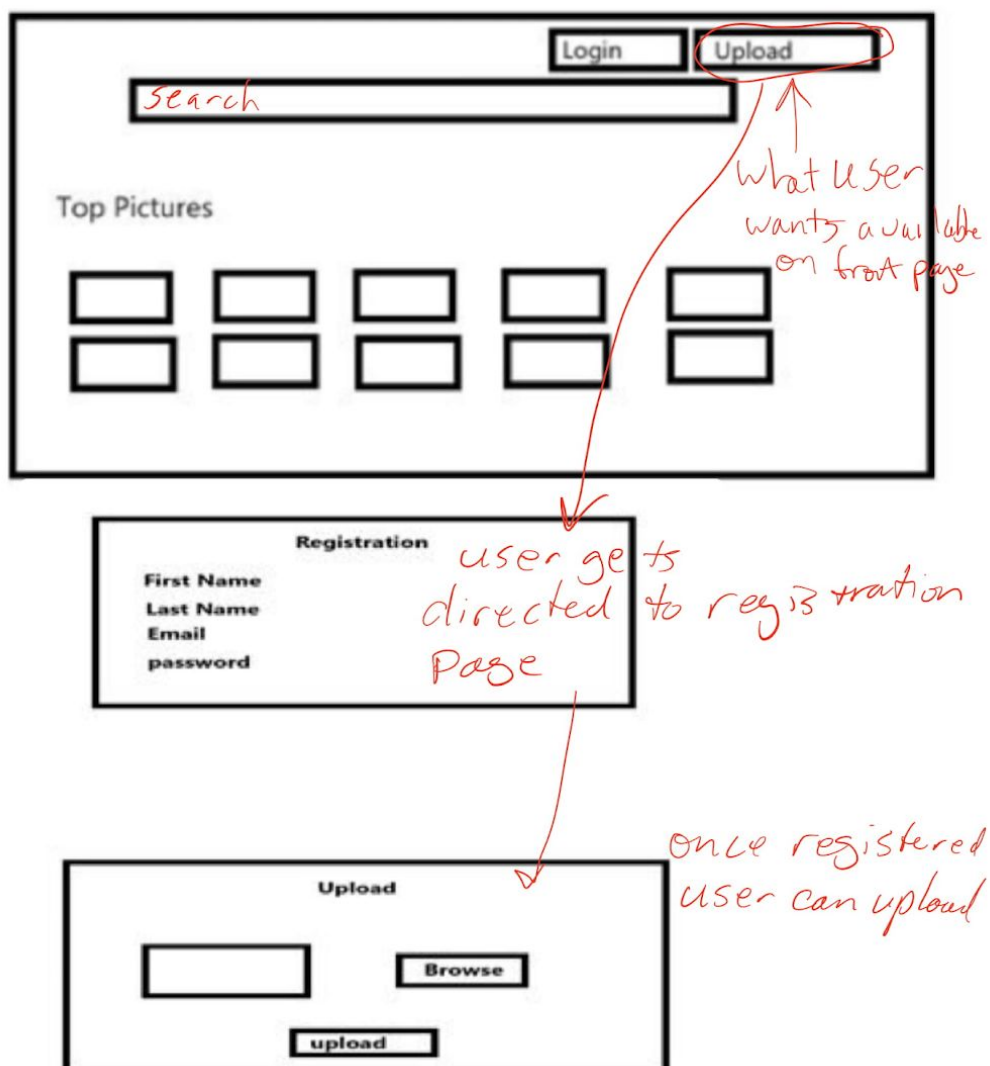
The admin page has a similar header to the user's page. But instead of pictures the admin page will contain approval requests or flagged emails in forms of messages. The navigation bar contains the "Dashboard," "My Account" and a "Logout" button. The Dashboard will contain the messages sorted with the 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

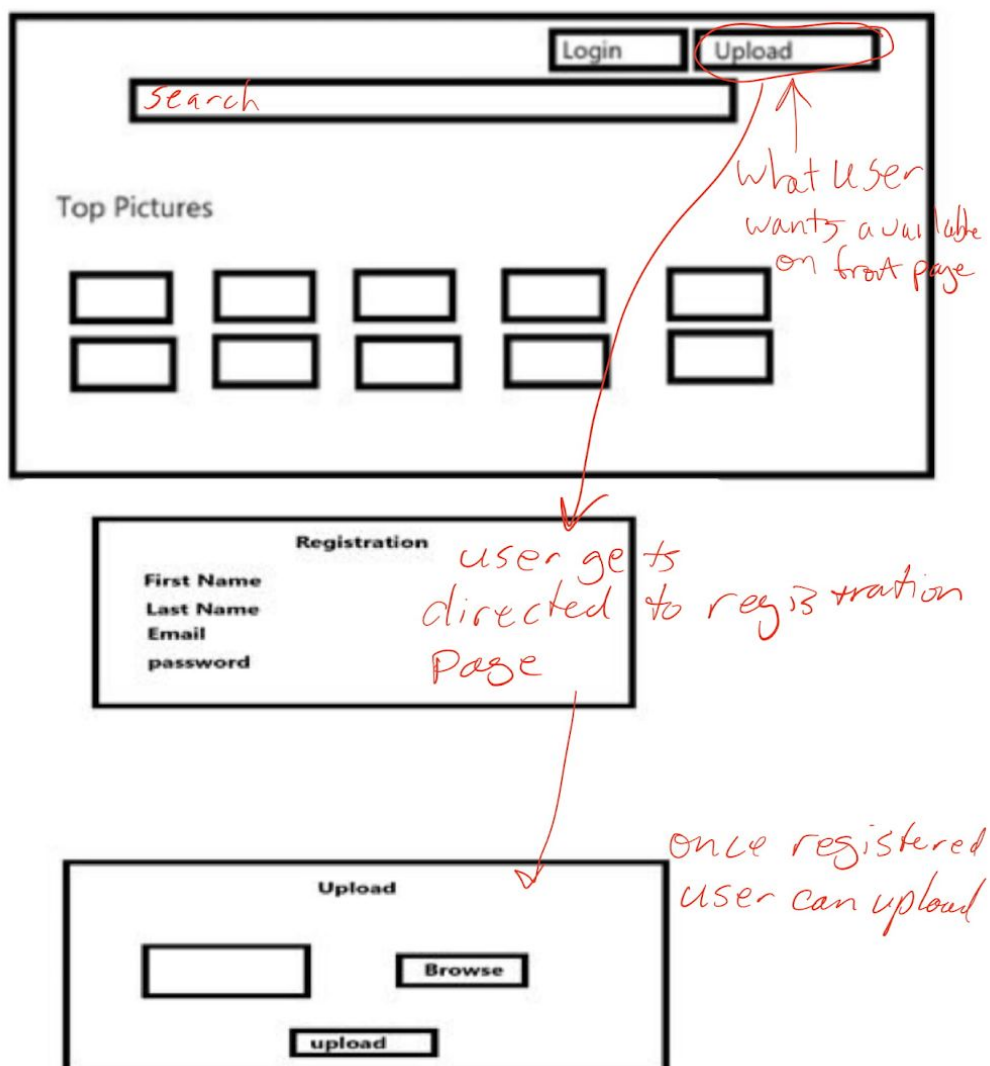
user wants to upload photos to the internet for distribution



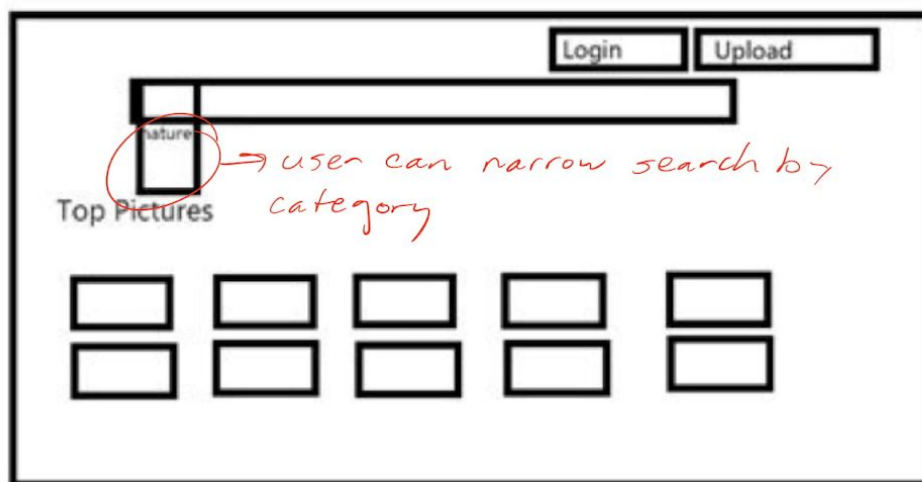


User Case Download

user wants to upload photos to the internet for distribution

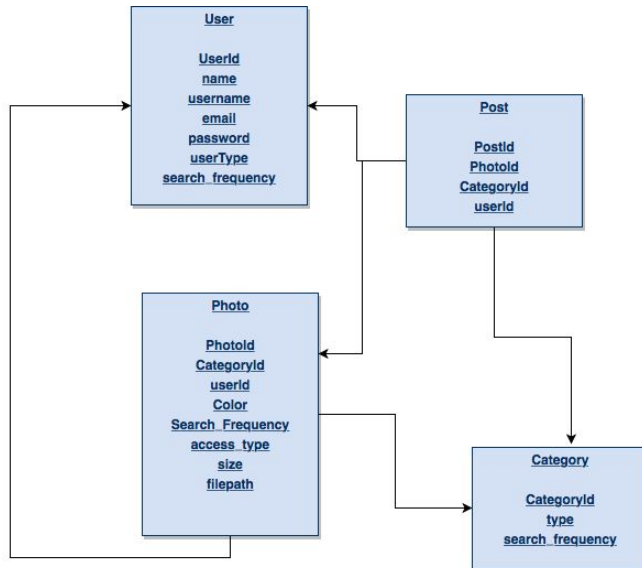


user wants to find a variety of photos
that are related in some way



High level Architecture, Database Organization

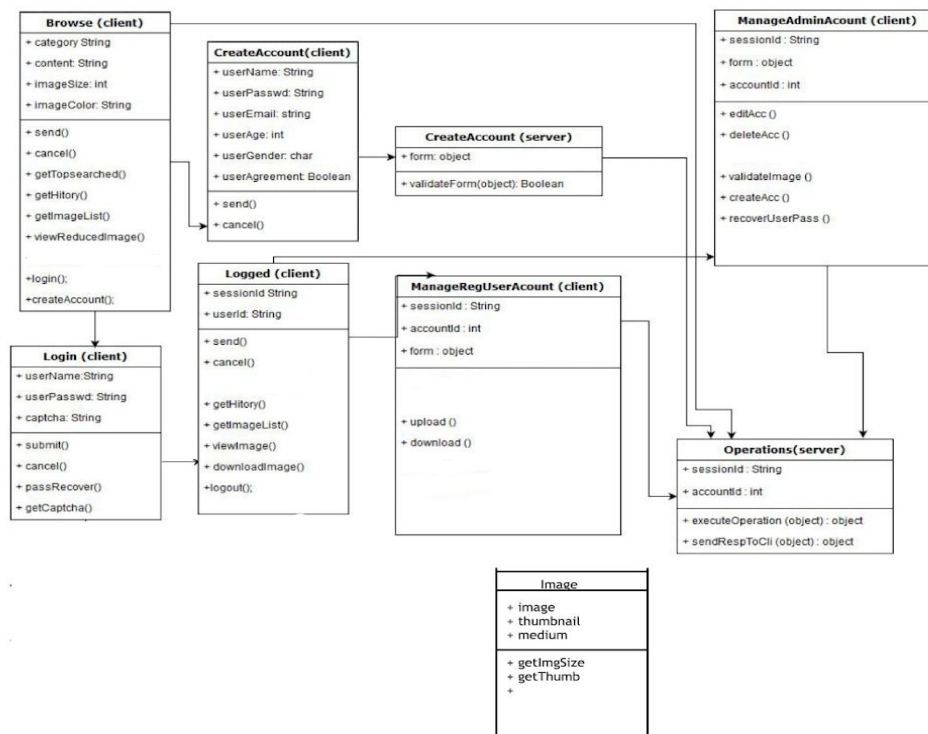
HIGH LEVEL DATABASE DESIGN



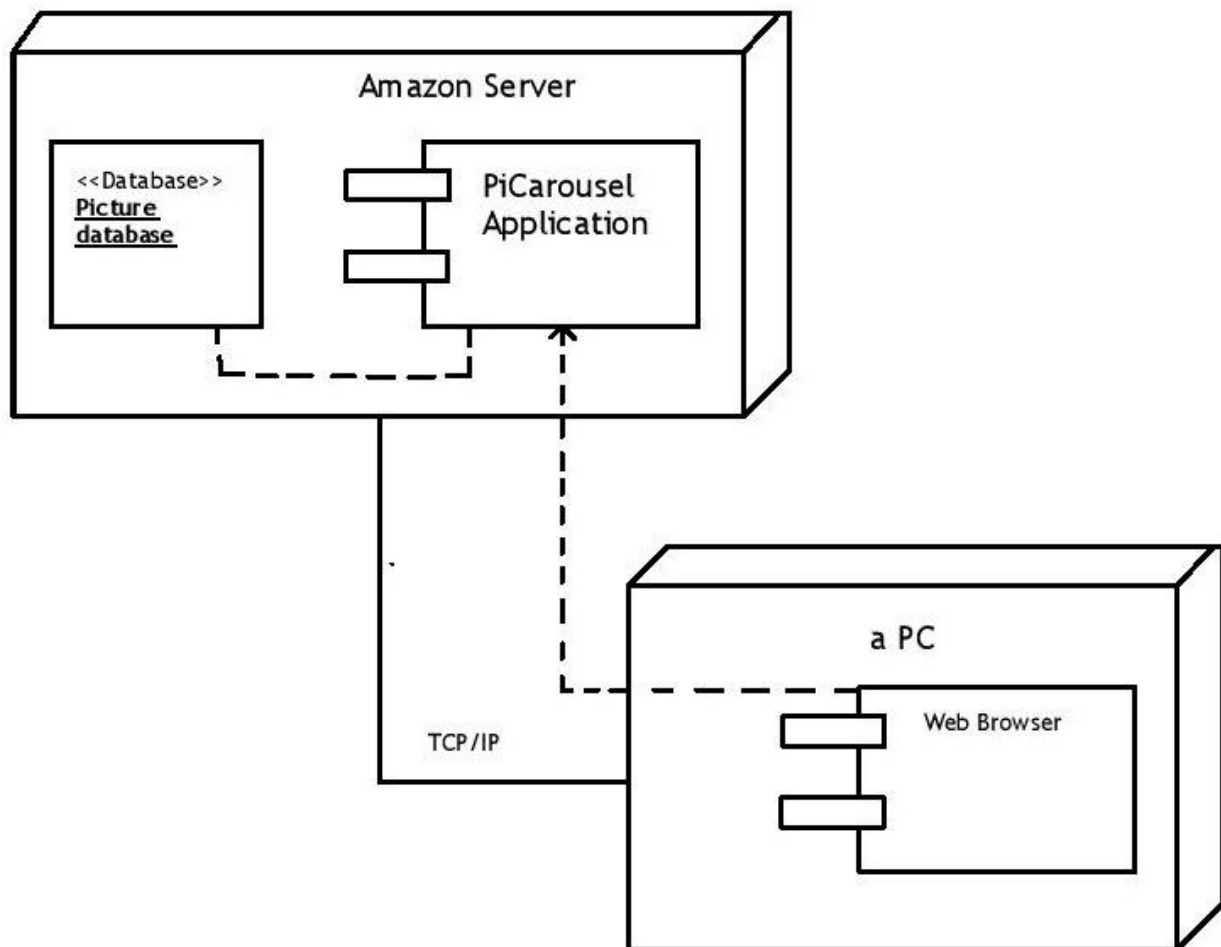
High level UML Diagrams

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. We will try to minimize P1 goals and use vertical prototype as a training aid.

Schedule Risks:

I don't think we have scheduled anything more than we can handle. Our schedule, while fast paced is not unmanageable. We will try to minimize P1 goals

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.