SnapSort

General idea:

Photo collection management system. In contrast to e.g. instagram the collections are private, as in visible only to the logged user. The main functionality for the user is being able to upload and download photos from the application.

Links:

- https://github.com/patkub2/SnapSort
- https://trello.com/invite/b/taLT5C14/ATTI3fbb7b1104d328580a9f17df2338122cBB943B44/untitled-board
- https://docs.google.com/document/d/1kCaM3dTO0v237yhWdcmlG3YiMHLyUrToSRPIUYrED-M/edit?usp=sharing

Features:

➔ Core:

- uploading photos
- filter the photos according to the selected criteria (specific attributes / keywords in the description)
- add a description to photos, (comments, tags)
- creation of account (the user will be able to see the pictures only after logging in) using email and a password
- sharing the gallery (e.g. using a link or to another account)

➔ Additional:

- viewing the photo thumbnail
- download the selected photo(s)
- grouping pictures in custom groups/folders (manually)
- automatically grouping variations of the same picture into a cluster (group)
- responsive web design - media queries
- logging in with a google/facebook account

Technology:

- Front-end
- Next.js
- Typescript
- Styled Components

- Back-end
- Java Spring Boot
- MySql
- JDBC
- Thymeleaf
- Lombok

Team members:

Name and surname	**Role**
Patryk Kubala	Front-end dev
Radek Gąsior	Back-end dev
Łukasz Rak	Back-end dev
Marcel Filejecki	Front-end dev
Bartosz Wójcik	Back-end dev
Mateusz Kies	Back-end dev

At the moment the work is split into back-end/front-end. We have two members who have experience with JS/React or Next.js. The rest of us (4 members) will focus on implementation of the back-end of the web application. Moreover, we will later split the work into more detailed tasks assigned to each of the individual members.

Road map:

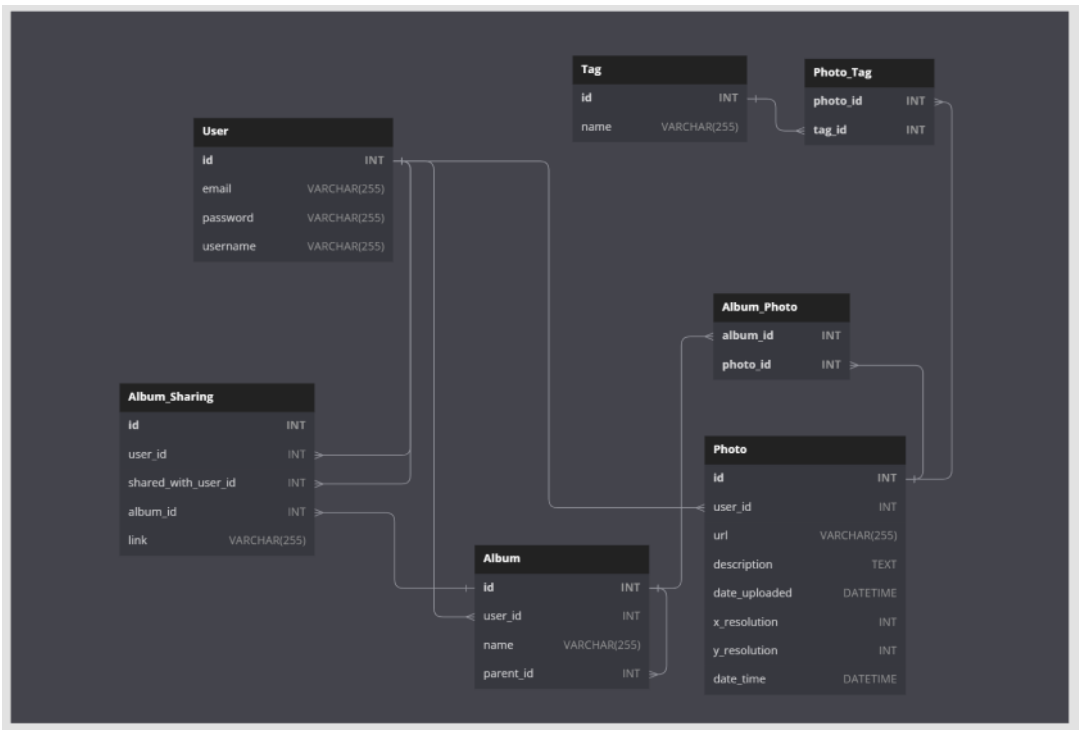
➔ Backend:

1. Creating accounts (with validation).
2. Creating the DB - enabling the uploading of photos to the application.
3. Adding tags/descriptions to photos.
4. Filtering the photos - downloading selected photos.
5. Sharing the gallery/photos (using a link or to another account).
6. Creating manual & automatic grouping of photos.

➔ Frontend:

1. Create the basic page design in figma app.
2. Implement the basic design from figma.
3. Implementing the registration with validation.
4. Connecting with the database.
5. Taking care of API and db requests.

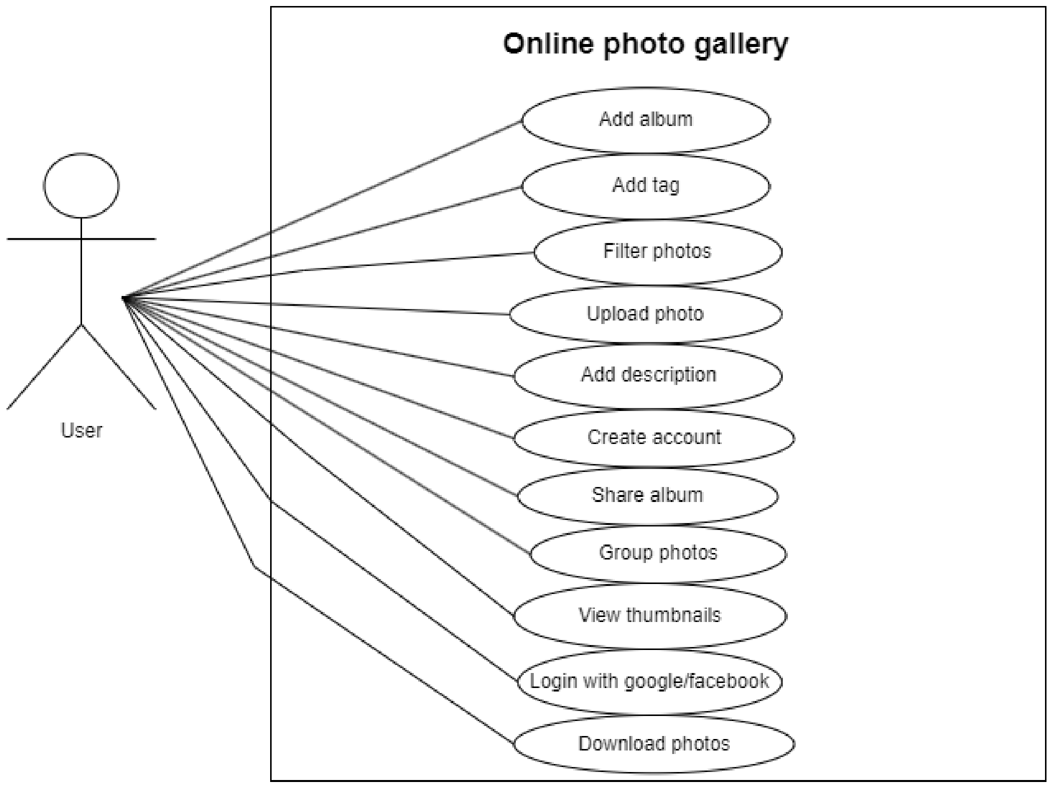
Basic database scheme:



<u>Use cases & views:</u>

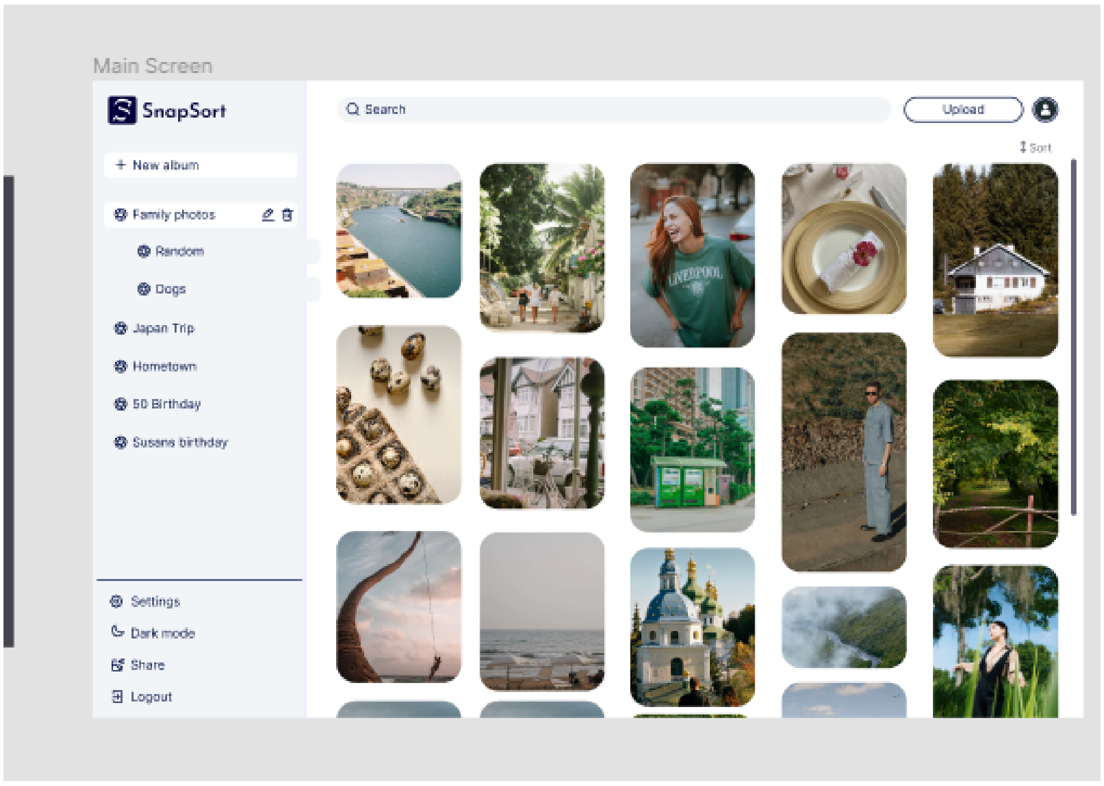
Use case	Actor	Description
Upload Photo	User	User uploads a photo to their private gallery.
Filter Photos	User	User filters photos in their gallery based on specific attributes or tags.
Add Tag	User	User adds a tag to their photos.
Add Album	User	User adds a album (albums are hierarchical).
Add Description	User	User adds a description to a photo.
Create Account	User	User creates an account using their email and a password.
Share Album	User	User shares their gallery with others via a link or to another account.
View Thumbnails	User	User views photo thumbnails in their gallery.
Download Photos	User	User downloads selected photos from their gallery.
Group Photos	User	User groups photos into custom groups or folders manually.
Cluster Photos	System	System automatically groups variations of the same photo into a cluster.
Login with Google/Facebook	User	User can log in using their Google or Facebook account

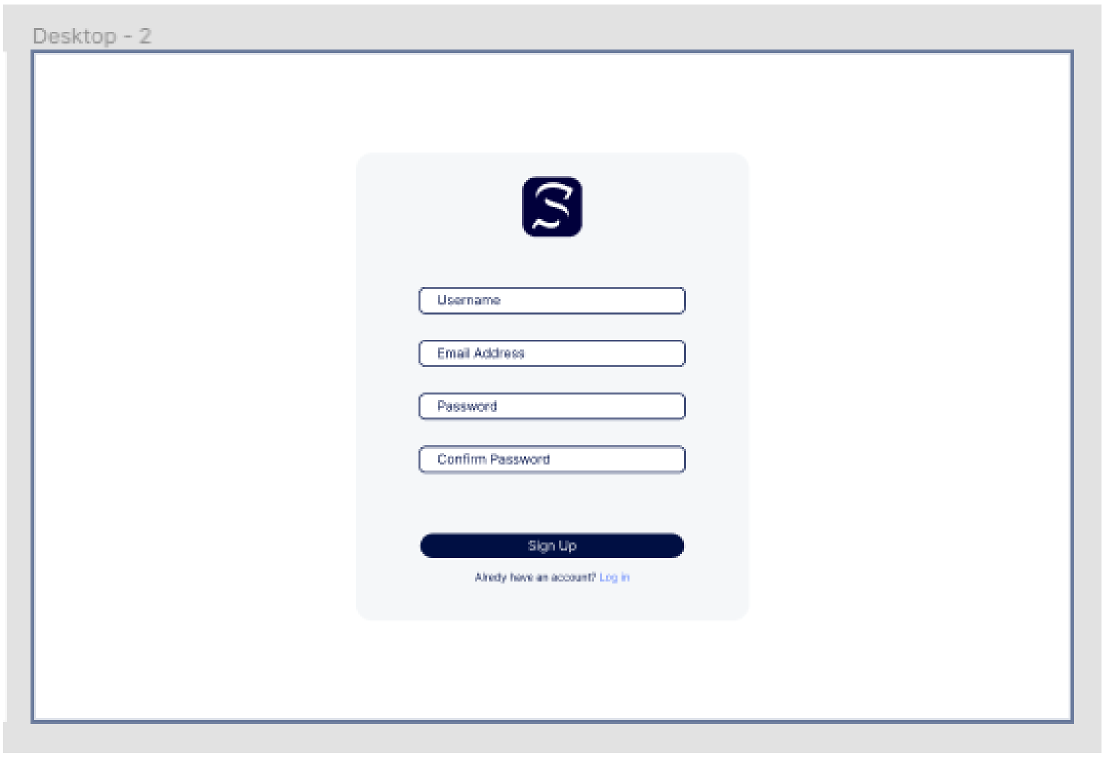
Use case diagram:



The UI design can be found in the link below:

- https://www.figma.com/file/rFFoqQOhokYt8vAeXgCPod/SnapSort


Main Screen
SnapSort
+ New album
Family photos
Random
Dogs
Japan Trip
Hometown
50 Birthday
Susans birthday
Settings
Dark mode
Share
Logout
Search
Upload
Sort


Desktop - 2
Username
Email Address
Password
Confirm Password
Sign Up
Alredy have an account? Log in