

CEN 4010 Principles of Software Engineering, Spring 2021

Milestone 1: Project Proposal and High-level Description

Team 6, CV Feed

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History Table

Revision Date	Additional Info

M1 Project Proposal
Group 6

Project Name: CV Feed

1. Executive Summary

The mission of CV Feed is to offer a high quality and user friendly way for anyone to share their COVID-19 quarantine experience. Our website is, at its core, a feed of images allowing people to share what keeps them busy, entertained, and sane during this unprecedented time. There are many other sites that may offer the ability to post your pictures but the problem is the ecosystems on their sites have become tainted with large companies trying to monetize their views for profit. CV feed gives the everyday person a way to casually and easily share their daily life.

2. Competitive Analysis

Competitors (Instagram)	CV Feed
Posting images	Posting images
comments	comments
likes	likes
People tagging	Locations tagging
Locations tagging	Posting texts (status update)

Our product will be very similar feature wise to the competitors other than your ability to post text statues alone instead of an image. Yet we are going to distinguish ourselves by our user friendly and unique UI as well as our casual community.

3. Data Definition

user - A single account, registered via an email address, intended to represent an individual person.

username - The semi-anonymous “pen-name” uniquely associated with an individual user used to publicly identify an individual user.

post - An individual image, with an optional text based description, uploaded to the platform, uniquely associated to an individual user account.

comment - A text based response from any arbitrary user publicly attached to the replies section of an individual post.

feed - A collection of upload date ordered posts shown to an arbitrary user, intended to be the main form of user interaction with the platform.

user feed - A feed that shows all of the posts, reverse chronologically ordered, by an individual user

tag - A short one-word categorization of a post preempted by a pound sign, e.g. #breakfast

tag feed - A feed that takes an input of a tag and filters the existing posts to show only those that have been tagged with the provided tag.

search - A function that allows an arbitrary user to discover either user feeds or tag feeds by providing either a username or a tag to the function.

moderator - An individual user who has the ability to both remove posts that break site usage guidelines and can ban offending users, preventing them from accessing the platform.

report - The function, per user and post, for arbitrary users or posts for breaking the site content guidelines which will alert the moderators who may take further action.

report feed - The specific feed tailored to site moderators to take discretionary action against either posts or users who were reported by non-moderator users.

4. Overview, scenarios and use cases

CV Feed is a visual platform that will allow users to upload their quarantine experience from their mobile devices or computers. Users can easily create an account with just their email, username, and a password. All users will have the option to upload a post or to simply browse other users' feeds to get inspired on how to cope with social isolation, users will also use this platform as a form of entertainment. Additionally, users will use tags and the search tab to easily find other users that share their views on quarantine.

CV Feed can be used by anyone regardless of age, the only requirement to use CV Feed is to have basic technology skills that allows the use of the platform's components. To ensure safety of users, a moderator will be able to remove and report any posts that break the site's usage guideless.

Use cases:

-Create a new account:

This use case starts when the user chooses to create a new account. The user will fill in three fields: Username, email and password. After successfully creating the account the user will be logged into the platform where the user may interact with the application. From this point the user may at any time edit his own account by modifying their feed. This use case ends when the user decides to logout to end his session.

Share a personal experience:

-This use case starts when the user wants to share a personal experience of their days during quarantine. The user can share an experience on their feed by posting a picture, leaving an uplifting comment or by tagging their location. This use case will end once the user stops interacting with the platform.

-Delete a post:

This use case starts when the user opts to remove a post from their feed. The user will simply login to their account and find the post that needs to be removed. After the post has been removed it will no longer appear on the user's feed.

User story:

Since COVID-19 has made social interaction difficult for the past year as well as the foreseeable future, many people around the world have been trying to find new ways to connect with each other. Our app is for everyone who is looking for a community. The software itself is user-friendly and therefore accessible to anyone from the technologically savvy to those who rarely use it. The idea behind our product is to allow everyone to collaborate in an environment safe from corporate influence, unlike the social media we all use today. The average user would open the website, log in, and immediately see posts from other users. They can scroll through these to like and comment, use the search bar to search for more specific posts, or create a post themselves. They will also be able to view their own profile and settings through a menu nested on the top right corner of the screen. All these functions will be clearly labeled for ease of understanding. If there is a post that violates the terms of service, a user will be able to report it using a button and a list of options of what type of violation. A moderator will receive a notification and be able to review the post. If a user's post is found in violation, they will receive a notification that their post is being removed and the moderator will do so.

5. Initial list of high level functional requirements

1. Log In/Sign Up
 - a. Each user must be associated with a password and an email
 - b. If there is no account with your email you must sign up
 - c. If there is an account with your email, you may log in
2. Create Post
 - a. A user can create a post using a picture, picture and description, or just a text description
 - b. The user can edit the post up to the point that it is posted to their account
 - c. Once a post has been created and uploaded, it is now searchable and associated with the user who posted it
3. Search
 - a. A user can search by username, tag, or text
 - b. The user can then browse through the search options and tap which one they would like to view to bring them to either a user's personal page, a specific post, or a tag feed
4. View Feed
 - a. The home page acts as a view feed
 - b. On this page you will be able to view the feed curated for you
 - c. The user will scroll to see more posts

5. Comment/Like

- a. If a user would like to interact with a post, they have the option to either like or comment on it
- b. There will be a button which will act as the “like”
- c. The user can also tap on a text box under the post to write a comment, then tap another button to post it publicly

6. List of non functional requirements

1. Security

- a. Each user's email and password will be protected.
- b. If a user forgets their email or password they will be able to answer security questions to log in.

2. Performance

- a. Users will be able to create/edit posts in a quick, smooth and reliable manner.
- b. Created posts will be discoverable as soon as they are uploaded in the system.
- c. The platform will run efficiently to optimize user experience.

3. Usability

- a. The user will be able to navigate easily through the homepage with a navigation bar.
- b. There will be a simple layout of the platform that will be easy for anyone to follow.

7. High level system architecture

The back-end system will be developed on top of the Python based Django web framework.

<https://github.com/django/django/blob/master/LICENSE>

The database for the back-end will be using MySQL, provided with the GPL license.

<https://www.mysql.com/products/community/>

For the front-end web facing side, we will be leveraging Bootstrap 5's functionality for efficient website design and development.

<https://github.com/twbs/bootstrap/blob/v5.0.0-beta2/LICENSE>

8. Team

Tyler Algigi: Backend Lead

Valentina Diaz: Frontend Lead

Julia Metzger: Scrum Master

Rood Pointjour: Github Master

Daniel Ruess: Product Owner

9. Checklist

- a) Team decided on basic means of communications: DONE
- b) Team found a time slot to meet outside of the class: DONE
- c) Front and back end team leads chosen: DONE
- d) Github master chosen: DONE
- e) Team ready and able to use the chosen back and front-end frameworks: ON TRACK
- f) Skills of each team member defined and known to all: ON TASK
- g) Team lead ensured that all team members read the final M1 and agree/understand it before submission: DONE