CEN 4010 Principles of Software Engineering

Summer 2021

06/15/21

Milestone 1 Project Proposal

&

High Level Description

Agile Development Team Group 3

ADevTG3

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History Table

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| **Date** | **Revision History** | **Revision Class** | **Comments** |
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Executive Summary

OwlPost is the new-age social media network we're building that is intended to connect college students. It's an iPhone and Android software that allows you to share photos, videos, comment, posts, create unique usernames and passwords in the creation of your personal encrypted private or public account and is user friendly with the most current commonly used web browsers. Students are able to post photos or videos to our website they want to share with their followers or small groups in addition to unlimited numbers of friends. They can also view, comment on, and like Instagram posts that their friends have made.

The app promotes communication with others by allowing you to take images; it expands your friend list; your professional network in a beneficial way for everyone; and it allows you to share information with friends and family in a unique way. You can take a photograph and post it for all fellow students to see; or take a picture of your achievements on OwlPost for all your friends to see.

“Community first, promote creativity, and simplicity matters” are three of OwlPost’s key beliefs. These values are crucial to the firm because they help fellow college students stay focused on its goal and vision statement.

Competitive Analyses

We plan on making a social media application that allows students to connect to each other through posts that a made from user profiles mainly through pictures that will have a thread attached to allow students to comment on them. The applications main competitor will be similar featured sites that are already well known, established, with extensive brand recognition such as: Facebook and Instagram due to their extensive outreach globally. One of the advantages will be our plan to keep the app local within the student body eliminating the nerve-racking pop-up ads trying to sell you a pitch as you scroll through post and/ or feeds.

**Photos editing availability on the mobile app**

Who doesn’t love an app that allows its users to edit the photos they post?

**User engagement by creating polls in groups and events**

Having the capability to spontaneously start a poll for constructive criticism or just a simple in the moment need for assistance on a topic that may be troubling the user adds another layer of usefulness to the app.

**Keyword usage to search for old posts**

Searching for old posts with the ease of keywords in order to find posts on topics users are interested in allows information to be accessed with efficiency.

**Receive notifications regarding unfollowed alerts**

Being able to see who unfollowed our users is a convenient way for them to pin point root causes and evolve their usage approach on the app.

**Linkable to profiles from other commonly used apps**

The ability to attach other profiles to user accounts on our app results in a user friendly atmosphere for everyone to access various accounts they wish to maintain.

These five key features are what we view as highlights in our app, because they are key features that are found in one place within OwlPost’s application. Each feature has not been seen on a single app together. A few have been used on secondary apps that are not affiliated with Facebook. This has put users in a position with a higher likelihood involving potential security breach since FaceBook is not liable if userss information gets lost or stolen using other secondary apps. Having all of these features accessible in one secure location will assist in avoiding scammers and pirates on the web.

Data definitions

* **Users** - There will only be one user level, “user.” Will have access to view other users’ profiles, create posts, upload images and interact with other users. Users will have access to manage their own data. IE: Delete images, edit profile and posts.
* **Profile** – Users’ page, will contain place holder for personal information.
* **Images** – Users’ will be able to post images in jpg, jpeg or png file formats.

* **Posts** – Users will be able to create a “post” which will be added to the profile.
* **Feed** – Website homepage, gives users a scrolling page with the newest posts from connected users.
* **Friends** – Users will be able to create connections with people they know. Accepting a friend will create a link between the profiles and allow users to see your posts and updates.
* **Tagging functionality**
  + Users must be able to mention friends or other users in posts that will then notify them of the tag and direct them to the tagged posts.

Overview, Scenarios and use cases

The project will be a social media type of site. This site's primary goal is to connect people via an online platform. Due to the unprecedented issues created by Covid-19, people are more socially isolated than ever seen before in documented history both physically and mentally. College students have been strongly effected by the recent lockdowns imposed over risks involved from the potential spreading of Covid-19 through in person social interaction. Generally, college students consider this time period as important period of interacting with new people and other cultures which in turn has been disrupted due to the aspects of social distancing preventing them from having the traditionally expected experience.

The event of Covid-19 has paved the way to college students being the ideal target audience for this site. This site assists in coping with the mental part of being socially distanced by allowing others to share parts of their lives interacting with others while still maintaining the required distance during this difficult time. Users will be able to post text, share pictures, and respond to others. The skill level of the users will be a basic idea of how to interact with websites with a potentially higher skill level needed in order to post pictures as it would require users to understand how to navigate their own computers files.

Initial List of High Level Requirements

The social media platform we are creating is designed for college students to connect. It is a photo and video sharing app that can be downloaded on iPhone and Android. People can use our service to submit photos or videos and share them with their followers or a small group of friends. They can also look at, comment on, and like posts that their friends have published on Instagram. Anyone college student can sign up for an account by entering their email address and choosing a username.

Specific requirements:

1. Mobile app friendly
2. Username/password sign up
3. Access user’s camera to post pictures
4. A “member profile” for each user
5. Comments are available for every post

List of Nonfunctional requirements

1. Usability requirement
2. Serviceability requirement
3. Manageability requirement
4. Recoverability requirement
5. Security requirement
6. Data Integrity requirement
7. Capacity requirement
8. Availability requirement
9. Scalability requirement
10. Interoperability requirement
11. Reliability requirement
12. Maintainability requirement
13. Regulatory requirement
14. Environmental requirement

Initial list of high-level functions

* Friend functionality
  + Must be able to create an array or library of users connected to one another, this will then share the posts from connected profiles to be shown on the homepage.
* Photo function
  + Function to validate image data type and to downscale images to a pre-determined resolution in order to manage data consumption and speed of use.
* Friend suggestion feature
  + This function will search through a users’ existing friends and search through friends list to connect to potential new friends, will give users the option to add or ignore the suggestion.

Team

Joshua Gardner - Scrum Master – jgardn11@fau.edu

Ivan Duben- Product Owner – Iduben2020@fau.edu

Holly Schlichting – Developer – hschlichting2015@fau.edu

Justin Lawson – Developer – Lawsonj2016@fau.edu

Steven Solo - Github Master – ssolo2019@fau.edu

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 backend team leads chosen

* Done

d) GitHub Master chosen

* Done

e) Team ready and able to use the chosen back and front-end frameworks

* Done

f) Skills of each team member defined and known to all

* Done

g) Team lead ensured that all team members read the final M1 and agree/understand it before submission

* Done