CEN4010 Principles of Software Engineering, Spring 2023

Milestone 1 Project Proposal and High-level description

Team 03, Project name: Overview

Team 03

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**Executive summary**

*Overview* is meant to be a simple web-based application for getting a “bird’s eye view” of all social media posts a user is registered with. This project was done to allow social media users to get insight into their pages without the hassle of swapping from application to application. With our competitors in mind, key advantages include an efficient, streamlined approach to interacting with multiple web services from a single user interface. Compared to others on the market, this application focuses on ease of use and simplicity. Giving users the versatility of scrolling through their favorite social media sites while being able to manage how many of them they can see all at once. Giving users this accessibility will grant them the depth of their social media analytics and allow them to engage actively with these platforms without the hassle of maneuvering through countless pages and applications. Most options on the market today suffer from feature creep and are aimed more at professionals and larger businesses; meanwhile, Overview seeks to remedy this by having a streamlined interface that any user can easily pick up and use.

This allows more of our users to gain this accessibility over their platforms without the extra hassle or fear of featured paywalls to manage their profile information. With this, many content creators, businesses, and fans can hold account of their feeds and monitoring of platforms with simple features that they’re used to browse different pages at once. Ultimately, Overview is aimed more at the casual social media user who wants a single place to view all their social media content and offers a way to post onto all social media platforms they are registered with from one place. While these features are not new, the simplicity and accessibility of these platforms, all from Overviews central hub, will allow users to get a clear and definitive look at their favorite social media sites without the hassle of flipping from page to page.

Overview also makes it easier to control privacy of each platforms. The user will be able to control who can communicate or see their activity by just using Overview. This help the user from getting hacked or have unwelcomed people view their profiles. Overview is made to make everything easier for the user. It’s the easier way and safer way to manage each users social media platforms.

**Competitive Analysis**



Putting aside the difference in supported platforms between *Buffer* and *Tweetdeck,* the goal for *Overview* is to offer a simple and streamlined interface with minimal but powerful options in easy to see places. In other words, we are aiming for a simpler user interface when compared to *Buffer* and *Tweetdeck*.

**Tweetdeck**

Tweetdeck allows users to manage multiple Twitter accounts and posts all at once. It also allows its users to put together their tweets and essentially creates a way to organize and post them as they please. Even though you can organize your future tweets accordingly using Tweetdeck, users aren’t able to schedule these tweets to post automatically at the time they need them.

**Buffer**

Buffer on the other hand also allows its user to manage their social media account but across multiple platforms. Users can post any content they desire throughout multiple accounts and platforms, not just Twitter. Users can also schedule posts for multiple of these various platforms at once. This also allows collaboration amongst its users

***Overview***

The main features that will be worked on this website is the log in/create an account page, navigation bar for each social media platform available in *Overview*, homepage, search bar, user profile, setting, and privacy. This will be simpler compare to other webpages because the user do not have to log in more than once. They will only have to log into *Overview* and all their social media will be ready to use.

**Data Definitions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Meaning** | **Usage** | **Comments** |
| Overview | Domain Name | Use Case Scenario | A website that connects multiple social media platforms without having to log in to each one |
| Social Media Platform | User interface | User interface | Websites that user uses to communicate and share their daily activities |
| Facebook | User interface | User interface | A platform where user can share photos, communicate with people and purchase items |
| Twitter | User interface | User interface | A platform where user can share photos, communicate with people and celebrities |
| Instagram | User interface | User interface | A platform where user can share photos, communicate with people and |
| LinkedIn | User interface | User interface | A platform where user can connect with various company they desire to be a part of and share their career journey |
| Pinterest | User interface | User interface | A platform where user can make albums of pictures that are alike and where user can share albums in public |
| Log in | Service | Site User Service | The first page the user sees. To access *Overview* the user must be a member |
| Create an Account | Service | Site User Service | Making an account to use the features of Overview |
| Homepage | User Interface | User Interface | The main page of Overview where user can see all the navigation bar containing their social media platform |
| Navigation Bar | Service | Site User Service | Where user can choose which social media they want to access |
| Search | Service | Site User Service | If user need to search a person/ place |
| Like | Service | Site User Service | A service that user can use to react on other users activity |
| Comment | Service | Site User Service | A service that user can use to react on other users activity |
| Share | Service | Site User Service | A service that user can use to react on other users activity |
| Post | Service | Site User Service | A service where user can share their recent activity, photo, and likes. |
| Account Profile | User Interface | Use Case scenario | Main page where you can see the user profile and all the platforms they own |
| Privacy | Services | Site User Service | Service where you can decide who can contact you and who sees your activity |
| Setting | User Interface/Services | Site User Service | Service where changes to your account can be made |
| Report | Services | Site User  Service | Service where you can block any inappropriate people or post you see on your account |

**Overview, scenarios, use cases**

Member expectation

**1. Adding Accounts**

* **1a.** The system shall allow the user to link accounts across multiple supported platforms. The system shall not allow users to add platform accounts that are not supported by Overview or invalid account logins. Also, the system shall prevent the user from logging into an account if the User’s chosen password does not match the password field of the account .
* **1b. Actors**
  + Users
  + System
* **1c. Preconditions**
  + User has an active internet connection
  + System is available
  + User has an active account
  + User has social media account to link to Overview

**1d. Flow Response Sequence**

* + i. User enters a UserID (same as email)
  + ii. User enters a Password
  + iii,.System shall check if UserID is available
  + iv. System shall validate Password
  + v. System shall confirm that the account was created to the User
  + vi. System will have a button that logs user into the main page.
* 1e. Alternate Flows
  + i. User enters a UserID (same as email)
  + ii. User enters a Password
  + iii,.System shall check if UserID is available
  + iv. System shall validate Password
  + v. System shall confirm that the account was created to the User
  + vi. System will have a button to redirect the user back to the Main Page upon password fail
* **1c. Function requirement label**
* i. REQ 1.1 Creating Account

**2. Loading Profiles**

* 2a. User should be allowed to move between accounts seamlessly and have multiple accounts visible simultaneously at any given time. The system shall allow users to tab between or adjust the size of the tabs and view their profiles at all times. These tabs will be manageable in which they
* **2b. Actors**
  + Users
  + System
* **2c. Preconditions**
  + User has an active internet connection
  + System is available
  + User has an active account
  + User is logged into system
  + User has social media account linked to Overview
* **2b.** **Flow Response Sequence**
  + i. User selects tabs
  + ii.User can select multiple tabs at once
  + iii. User can add or delete pages that are unnecessary
  + iv. User can adjust pages width to fit to page or slide pages over
* **2e. Alternate Flows**
  + i. User enters a UserID of supported social media
  + ii. User enters a Password
  + iii,.System shall check if UserID is available
  + iv. System shall validate Password
  + v. System shall confirm that the account was created to the User
  + vi. System will have a button to redirect the user back to the Central Hub upon password fail
* 2c. **Function requirement label**
  + REQ 2.1 Loading Profiles.

**3. Posting to Page**

* **3a.** Users can post to their feed, and it will be updated in real time. Users post will be able to appear on the page and can be done from both profile and feed tabs of the
* **3b. Actors**
  + Users
  + System
* **3c. Preconditions**
  + User has an active internet connection
  + System is available
  + User has an active account
  + User is logged into system
  + User has social media account linked to Overview
* **3d. Flow Response Sequence** 
  + i. User selects tabs
  + ii.User can select multiple tabs at once
  + iii. User can add or delete pages that are unnecessary
  + iv. User can adjust pages width to fit to page or slide pages over
* **3e. Alternate Flows**
  + i. User presses button on social media page to post
  + ii. User doesn’t enter information into post box
  + iii. Post doesn’t go through to feed page
  + iv. User’s post doesn’t update due to internet issue
  + v. User doesn’t select the right tab to post to the proper page.

**4. Deleting tabs**

* **4a.** User can delete tabs and linked accounts stayactive
* **4b. Actors**
  + Users
  + System
* **4c. Preconditions**
  + User has an active internet connection
  + System is available
  + User has an active account
  + User is logged into system
  + User has social media account linked to Overview
* **3d. Flow Response Sequence** 
  + i. User selects tabs
  + ii.User can select multiple tabs at once
  + iii. User can add or delete pages that are unnecessary
  + iv. User can adjust pages width to fit to page or slide pages over
* **3e. Alternate Flows**
  + i. User presses button on social media page to post
  + ii. User doesn’t select tab
  + iii. Tab doesn’t get deleted

**Initial list of high-level functional requirements**

1. Clear and concise overview of all new social media posts for a given day.
2. Ability to quickly reply to a post on a given social media platform.
3. Ability to create a new post on a given social media platform and being able to post it on more than one platform.
4. Ability to view more than one social media platform at a time.

**List of non-functional requirements**

1. Emphasis on usability, should be easier to make post when compared to using the native social media platform for posting
2. Accessibility: user interface items should be distinct and easy to discover
3. Security requirements: no personal data associated with the user or their account should be stored. All relevant data retrieved via an API must only be used for the operation that the user has initiated; there will be no storage of any user-specific data.

**High-level system architecture**

A tentative list of products, tools, and programming languages that will be used for this project include:

* Visual Studio Code for programming
* Lamp Server
* Chromium and Firefox web development/debugging tools
* Electron tools
* Electron framework for desktop app support and easy translation to web app
  + JavaScript
  + Node.js
* HTML5, CSS
* Python
* C++

**Team**

Aira Torres – Scrum Master, Backend Developer

Daniel Rovira- Frontend Developer

George Gordon – Backend Developer

Tyler Fasoli- Frontend Developer

Eric Smith – Repository Maintainer, Backend Developer, Product Owner

**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 (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)