**Project Name:** Social Media Aggregator

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**Background:** The concept for SMA (Social Media Aggregator) came about from the frustration of using multiple social media sites. Twitter, Facebook, LinkedIn, Instagram, and others all use their own site. This causes a user to need multiple apps, browser windows, or browser tabs to keep up to date with all their sites. We plan to solve this by condensing their multiple sites into one.

**Project Aims and Objectives:** SMA is the next logical step in an interconnected world. The website itself would act as a centralized hub for social media, integrating as many platforms as we can and allowing users to see at a single glance what’s new. Social media management tools are not new, but the ones that exist, charge hundreds or more and are built with marketing agencies in mind; rather than create a product in the same market, we hope to first target the common audience before considering any expansion. Toward the end of our project, we also hope to expand our tool to include features such as cross-platform posting, inbox support, trending topics, profile selection, and more. Features like these would be useful for freelance creatives, who seek to promote and brand themselves on a budget - a trend already incredibly common in our online era.

**Project Outline:** The project consists of a website composed of the standard web languages, including tools like jQuery and React as we see the need. Users will start with simple login screens, but after connecting their accounts to the app via 1st party embeds, the app will pull the users feeds, posts, and notifications, and allow them to act on them. Given that many social media platforms have similar structures, we can easily define a universal structure for presenting them. Because both the content and user credentials are handled by Facebook, Twitter, etc., we currently do not foresee the need for any databases in our design.

**Description of Deliverables:** Our project will be delivered as a website, either as a GitHub-hosted subdomain or another means. We will provide the source code for the page in addition, archived in a ZIP format. To simplify matters, we also intend to provide both the link to our live site as well as links to any necessary API documentation.

**Evaluation Criteria:** SMA will be considered a success upon reaching its MVP (version 1.0.0) status. This will have been reached when there is full functionality of logging in. in addition, a user will be able to connect to both Facebook and twitter through the site. The ability to share a single post to multiple sites will also be included in this functionality.

**Resource Plan:** The development of SMA will be done on computers including school issued laptops and personal Desktops. The code will be programmed on the developer’s preferred IDE. SMA will require a server to host the web page and a Domain Name to access it. GIT will be used for the source control of code.

**Project Plan and Timing:**

|  |  |  |
| --- | --- | --- |
| Week | Date | What will be accomplished |
| 3 | 05/21 - 05/27 | Research |
| 4 | 05/28 - 06/03 | Login Functionality |
| 5 | 06/04 - 06/10 | Frontend Development |
| 6 | 06/11 - 06/17 | Frontend Development |
| 7 | 06/18 - 06/24 | Backend Development |
| 8 | 06/25 - 07/01 | Backend Development |
| 9 | 07/2 - 07/08 | Settings Configuration |
| 10 | 07/9 - 07/15 | Share to All |
| 11 | 07/16 - 07/22 | Finalizing MVP |
| 12+ | 07/23 - | Adding Additional Functionality |

**Breakdown of Timings:**

*Weeks 1 and 2:*

* Concepts for a senior design project were formulated and developed into a single idea: A Social Media Aggregator

*Week 3:*

* Ian and Jake will be researching the implementation of the Facebook and Twitter APIs
* Ian and Jake will be researching the best way to implement code, specifically authorization for logging in

*Week 4:*

* Ian and Jake will develop a proof-of-concept webpage to test the login functionality of Twitter and Facebook’s APIs
* In addition, they will register the product with Facebook and Twitter to get App IDs for the API functionality

*Weeks 5 and 6:*

* SMA’s frontend development will begin and be completed
* This includes creating a sidebar to switch between social media platforms, a full login page, and feeds for each social media site.

*Weeks 7 and 8:*

* SMA’s backend development will begin and be completed
* This includes connecting the login feature (week 4) to the developed login page.
* This also includes connecting to new social media platforms, populating the newsfeeds for the linked social medias, and functionality for switching between sites

*Week 9:*

* Ian and Jake will create and develop the settings page of the website. This will allow users to disconnect from Social Medias they no longer want attached to their account and allow them to log out.

*Week 10:*

* Functionality will be added to allow a user to share one post to multiple sites that they are connected to

*Week 11:*

* Finishing touches will be done to the code
* The minimal viable product will be declared (Version 1.0.0)
* The final presentation will be created

*Week 12:*

* Various features may be implemented if time allows
  + Direct Messaging
  + In-site notification
  + LinkedIn and Instagram Support