

Sprint 1 Planning Document



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Sprint Overview:

The focus of this sprint will be on the the user account set up, basic front end functionalities, along with a minimal Express server.

Scrum Master: Anqi Yu

Risk/Challenges:

The biggest challenges will be time management. Since this is a one person project and Professor Dunsmore specified I would spent 10~15 hours per week, it feels unrealistic if learning time is taking into account for the first sprint. Another challenge is since I would be working with multiple languages, tools and protocols,

it can be confusing, especially during debugging process. Incremental testing would be crucial for this project.

User Stories:

- As a user, I would like to create and log into an account.
- As a user, I would like to set my daily time limit.
- As a user, I would like to be notified when my media consuming time exceeds specified time limit.
- As a user, I would like to input source of media feed from twitter user accounts.

Current Sprint Detail:

User Story #1 As a user, I would like to create and log into an account.

| Task | Category | Estimate Hours |
|--|-----------|----------------|
| Create front-end UI for login and sign up | Front-end | 1 |
| Create front-end UI for account setting button (drop down navigation element) | Front-end | 1 |
| Angular Tutorial | Front-end | 2 |
| Set up a basic Express Server | Back-end | 3 |
| Set up routes in Angular and Express | Network | 1 |
| Set up MongoDB and connect to server | Back-end | 1 |

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| Unit Testing | Testing | 1 |
|--------------|---------|---|

Acceptance Criteria:

- Given user sign up with a email and a password successfully, user will be directed to homepage;
- Given user's signing up with a existing email address, user should be notified to change a different address.
- Given User is logged in, user can see a navigation bar and a drop-down button

User Story #2, 3 As a user, I would like to set my daily time limit; As a user, I would like to be notified when my media consuming time exceeds specified time limit.

| Task | Category | Estimate Hours |
|---|-----------|----------------|
| Create front-end UI as "set your time limit", Make it a modal interface where user can input numbers. | Front-end | 1 |
| Write a javascript function that will report current timestamp when user logged in to the server | Front-end | 1 |
| Express Tutorial | Back-end | 2 |
| Set up a timer function in Express, sent a notification to the browser when user | Back-end | 2 |

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|---|-----------|-----|
| time expires | | |
| Write javascript function that will show a notification, and then clear all contents in home page when time is up | Front-end | 2.5 |
| Store user's time limit in MongoDB | Back-end | 0.5 |
| Unit Testing | Testing | 1 |

Acceptance Criteria:

- Given user input a time limit they desired, server should receive that number and recorded in the database;
- Given user logged in successfully, the timer function should start clocking;
- Given user's timer expires, user should receive a notification on the browser and then all the media contents should be cleared.

User Story#4 As a user, I would like to input source of media feed from twitter user accounts.

| Task | Category | Estimate Hours |
|---|-----------|----------------|
| Create a page that is used for input media source | Front-end | 2 |
| Write a function that will validate the username that is being input exist on twitter | Front-end | 1 |
| Twitter API tutorial | Learning | 1 |

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|--|-----------|---|
| Write a web crawler for any generic public user on twitter, sent to front end | Back-end | 3 |
| Display each tweet in the form of Angular-material-Card | Front-end | 2 |
| Unit Testing | Testing | 1 |
| If time permit, user can sign into their twitter account, so even private account tweets can be crawled. | Fullstack | ? |

Acceptance Criteria:

- Given user click the input media source button, user should be directed to a new page
- Given a user input a valid twitter username, tweets from this username should be added to the media feed homepage;

Total Hours: 30

Backlog

Functional

1. As a user, I would like to create and log into an account.
2. As a user, I would like to input source of media feed from twitter user accounts.
3. As a user, I would like to input source of media feed from my Pocket account.
4. As a user, I would like to set my daily time limit.

5. As a user, I would like to be notified when my media consuming time exceeds specified time limit.
6. As a user, I would like to be able to set a new password.
7. As a user, I would like to be able to retrieve my password if I have forgotten it.
8. As a user, I would like to be able to delete my account.

Non-functional:

1. This app works on web browser on desktop as well as cell phones (responsive web design).
2. The user interface should be simple and clear.

If Time Permits:

1. As a user, I would like to filter out certain keywords or specific topics from my media feed;
2. As a user, I would like to be able to save contents I liked to "Favorites".
3. As a user, I would like to input source of media feed from YouTube accounts.
4. As a user, I would like to input source of media feed from a URL
5. As a user, I would like to input source of media feed from facebook user accounts.
6. As a user, I would like to add the app from the browser to my smart phone's home screen.
7. As a user, I would like to input a topic of my interest, and receive automatically curated contents about the topic.