



Team 8 - Sprint 1 Planning Document

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Sprint Overview:

During this sprint, we hope to set up the initial base of our application. This involves gaining a functional understanding of the technologies we will use, establishing a template for future additions (organization, coding practice, etc.), and beginning the implementation of a few of the core features of our application.

Scrum Master: Quin Houck

Meeting Plan: Monday/Wednesday/Friday 2:30pm

Risks and Challenges: We are unsure of how browser extensions work or connect to the database. We are also unsure of how to connect authorization to the extension and the web app. Some team members are unfamiliar with the technologies and intricacies of creating a full-fledged web application.

Current Sprint Detail

User Story #1

As a user, I would like to be able to register for a Noteworthy account.

#	Description	Estimate Time	Owner
1	Create registration UI	5 hours	Quin
2	Redirect to main site on extension	1 hour	Aidan
3	Architect backend code (templating for ORM objects and setting up API structure)	4 hours	Adrik
4	Setup database instance on AWS RDS and create main table	2 hours	Josh
5	Setup AWS EC2 instance to host backend server	2 hours	Josh
6	Initialize backend server (containerize backend code, get it onto EC2) and ensure backend server connects to database properly	2 hours each	Adrik, Josh
7	Implement registration requests with backend API	2 hours	Adrik
8	Hash and salt passwords	1 hour each	Adrik, Josh
9	Unit testing: ensure register route works, DB is accessible, etc.	2 hours	Josh

Acceptance Criteria:

- Given that the user is on the registration page, when they click the create account button with valid credentials filled in to the registration fields, they'll be redirected to the home page of the web application.
- Given that the user attempts to login through the extension, if they don't have an account and click the create account button, they will be redirected to the central site's registration page.
- Given that the user attempts to register with invalid credentials, the user will see a flash message that prompts them to use valid information.

User Story #2

As a user, I would like to be able to login/logout of my Noteworthy account.

#	Description	Estimate Time	Owner
1	Create login UI (Central Site)	3 hours	Quin
2	Create logout functionality (Central Site)	1 hour	Quin
3	Create login UI (Extension)	3 hours	Aidan
4	Create logout functionality (Extension)	1 hour	Aidan
5	Create login API requests (we will attempt JWT token auth)	1 hour each	Adrik, Josh
6	Unit testing: login route	1 hour each	Adrik, Josh

Acceptance Criteria:

- Given that the user is on the login page, when they fill in their information and click the login button, the user's account will be authenticated (email and password checked) and the user will be sent to their home page if successful.
- Given that the user is on a webpage and attempts to use the extension, they will be prompted to login. When they fill in their information and click the login button, the user's account will be authenticated (email and password checked) and the user will have access to the extension functionality.
- Given that the user is on a webpage using the extension, when a user clicks the logout button, the access to the extension functionality will be restricted back to the login UI and any notes on the page will disappear.
- Given that the user is on the central webpage, when a user clicks the logout button, they will be restricted back to the login page and not be able to access their notes.

User Story #3

As a user, I would like to be able to manage settings in my Noteworthy account.

#	Description	Estimate Time	Owner
1	Create Settings Page (Central Site)	1 hour	Quin
2	Create settings page functionality (change display name and password)	2 hours	Quin
3	Create API requests for changing user settings	1 hour each	Adrik, Josh
4	Redirect to main site on extension	1 hour	Aidan
5	Unit testing: user setting alterations	1 hour each	Adrik, Josh

Acceptance Criteria:

- Given that the user is on the central webpage, when the user clicks the settings button on the navigation bar, they will be redirected to the settings webpage.
- Given that the user is on their settings page, when the user changes their information and submits the form to save that information, the central site should be updated immediately to reflect any display changes.
- Given that the user is attempting to access a webpage and use the extension, if their password has been changed since last time using the extension, they will be prompted to re-login.

User Story #4

As a user, I would like to be able to create a note on a webpage.

#	Description	Estimate Time	Owner
1	Create note UI at specific location on web page (Extension)	8 hours	Aidan
2	Create note UI when highlighting/annotating (Extension)	5 hours	Aidan
3	Create API requests for adding a note to a user account	1 hour	Adrik
4	Create database architecture for notes	2 hours each	Adrik, Josh
5	Unit testing: note creation	2 hours	Josh

Acceptance Criteria:

- Given that the user is on a webpage and using the extension, when a user right clicks on a point on the page, the user will be able to create a note at that location of the page.
- Given that the user is on a webpage and using the extension, when a user highlights an HTML element and right clicks, the user will be able to create a note that will be attached to that selected HTML element.
- Given that the user has created a note on a webpage, when the user exits the browser or web page and returns back to the same webpage, their note will still be visible in the location it was created.

User Story #5

As a user, I would like to be able to delete my Noteworthy account and its data.

#	Description	Estimate Time	Owner
1	Add delete account button with a confirmation pop up.	2 hours	Quin
2	Create API request for deleting an account	1 hour	Adrik
3	Ensure account submitting deletion request is authorized for that account	1 hour	Josh
4	Unit testing: delete	1 hour	Josh

Acceptance Criteria:

- Given that the user is on the settings page for their account, when the user clicks the delete account button, they will be prompted with a confirmation modal. If they confirm the prompt, their account will be removed and they will be redirected to the landing page.
- Given that the user has clicked the delete account button on the settings page, when the confirmation modal pops up and the user clicks the cancel button, the deletion process will be terminated.
- Given that a user has submitted a deletion request, if the user does not have the proper login authorization (i.e. an auth token) then their request to delete an account will be denied.

User Story #6

As a user, I would like my password to be reset if I forget it.

#	Description	Estimate Time	Owner
1	Create a reset password page	2 hours	Quin
2	Set up mailer to send emails to users	4 hours	Adrik
3	Implement functionality for password reset on back end (send the user an email)	2 hours	Josh
4	Unit tests: ensure user password changes are properly reflected by DB and test mailer	1 hour	Josh

Acceptance Criteria:

- Given that the user is attempting to login to their account, when the user clicks the forgot password button, an email with a link to a webpage to rest the password is sent to the user's email.
- Given that the user has requested a password reset, when the user clicks the link to reset their password in their email, the user will be redirected to the web page that will display a form to enter a new password.
- Given that the user submits the form with a new strong password and their password is accepted, the user will immediately be able to login with their new password.

User Story #7

As a user, I would like to be able to access/view all of my notes.

#	Description	Estimate Time	Owner
1	Create a UI panel that displays all notes in the general collection on the user's homepage.	8 hours	Quin
2	Create UI to display all notes on each web page (Extension)	5 hours	Aidan
3	Create API endpoint to retrieve all notes from a webpage or Collection from the database	2 hours	Adrik
4	Unit tests: ensure note data from the requested resource (webpage, collection, etc.) is returned and parseable	2 hours	Josh

Acceptance Criteria:

- Given that the user has successfully logged into their account, they will be redirected to their account's central homepage where all of their notes will be displayed.
- Given that the user is using the browser extension, when the user clicks the login button and successfully logs in, any notes on the web page will be displayed at their specific location and in the extension window.
- Given that the user clicks a specific note on the central site, the contents of that note should be displayed to the user.
- Given that the user clicks a specific note on a web page, the contents of that note should be displayed to the user.

User Story #8

As a user, I would like to be able to delete a note.

#	Description	Estimate Time	Owner
1	Add a delete button to each note on the central site that requires confirmation to proceed	2 hours	Quin
2	Add a delete button to each note on a webpage that requires confirmation to proceed	2 hours	Aidan
3	Create API endpoint to delete a specified note	1 hour	Adrik
4	Unit tests: ensure all note data is properly deleted	1 hour	Josh

Acceptance Criteria:

- Given that the user is on their central home page, when they click the delete note button, a confirmation modal will appear asking for confirmation, if they confirm deletion then the note will disappear from their account.
- Given that the user is on a webpage with a note they created, when they click the delete note button, a confirmation modal will appear asking for confirmation, if they confirm deletion then the note will disappear from their account.
- Given that a user is on both a webpage with a note they created and on the central site, when they delete a note on one platform, it disappears from view on the other.

User Story #9

As a user, I would like to be sent to the specific website my note is on when it is clicked

#	Description	Estimate Time	Owner
1	Add links to each note that send the user to the site that note is on if confirmed	1 hour	Quin
2	Add links to notes displayed in the extension window to scroll to the location of each note when selected	1 hour	Aidan

Acceptance Criteria:

- Given that the user is on their central homepage and is viewing a note, when the user clicks on the link section of a note, they will be prompted to confirm leaving the central site.
- Given that the user is attempting to click a link to another site, when the user confirms that they are leaving the central site, they will be redirected to whatever website the note is attached to.
- Given that a user has clicked on a note and confirmed they want to leave the site, when they arrive on the new website they will be moved to the exact spot on the page where the note is.

User Story #10

As a user, I would like to be able to form note collections

#	Description	Estimate Time	Owner
1	Create a UI panel that shows the collections of the users including drop down menus that display sub collections	5 hours	Quin
2	Create a button that adds a new collection or sub-collection to the users collections.	2 hours	Quin
3	Create a collection button on each note to add a note to a collection using a modal	3 hours	Aidan
4	Create API endpoints for adding a note Collection to a user's account	1 hour	Adrik
5	Create a processing algorithm for retrieving, sorting, and delivering Collections to the frontend	3 hours each	Adrik, Josh
6	Create database architecture for Collections	2 hours each	Adrik, Josh
7	Unit tests: ensure queries for Collection creation are properly handled	1 hour	Josh

Acceptance Criteria:

- Given that a user is on their account page, users should be able to see all of their Collections elegantly displayed in a centralized panel.
- Given that a user is on their central homepage, when they click on the drop down menu of a collection, the subcollections of that collection will be displayed.
- Given that a user is using the extension, when they create a new note, they should be able to select a Collection from their account in which to store said note.
- Given that a user is on their homepage, when they click on a collection, the notes for that collection should appear on the notes panel of the homepage.

Remaining Backlog (15/39 Stories Complete)

Functional Requirements

- ~~1. As a user, I would like to be able to register for a Noteworthy account.~~
- ~~2. As a user, I would like to be able to login and manage my Noteworthy account.~~
3. If time permits: as a user, I would like to be able to login to my Noteworthy account through Google.
- ~~4. As a developer, I would like to hash the passwords for better security.~~
- ~~5. As a user, I would like to be able to logout of my Noteworthy account.~~
- ~~6. As a user, I would like to be able to delete my Noteworthy account and its data.~~
7. As a user, I would like all of my data on my friends' accounts to be deleted when I delete my account.
- ~~8. As a user, I would like my password to be reset if I forget it.~~
- ~~9. As a user, I would like to be able to create notes on a website in my browser~~
- ~~10. As a user, I would like to be able to delete my notes~~
- ~~11. As a user, I would like to be able to place created notes at a specific location on a website~~
- ~~12. As a user, I would like to be able to access all of my notes~~
- ~~13. As a user, I would like to be sent to the specific website my note is on when it is clicked~~
- ~~14. As a user, I would like to be sent to the specific location of a note link on a website~~
15. As a user, I would like to make my notes public or private
- ~~16. As a user, I would like to be able to form note collections~~
17. As a user, I would like to make my note collections public or private
18. As a user, I would like to be able to delete my note collections
19. As a user, I would like to be able to find and add friends
20. As a user, I would like to be able to remove friends
21. As a user, I would like to be able to see my friends' public notes
22. As a user, I would like to be able to see my friends' notes on websites
23. As a user, I would like to be able to react to my friends' notes (like, dislike, etc.)
24. As a user, I would like to comment on my friends' notes
25. As a user, I would like to form friend groups
26. As a user, I would like to rename my friend groups
27. As a user, I would like to add and delete collections from my friend groups

28. As a user, I would like to join other public groups
29. As a user, I would like to request to join private groups
30. As a user, I would like to be able to accept requests to join my private groups
31. As a user, I would like to be able to remove people from my groups
32. As a user, I would like to be able to delete my groups
33. As a user, I would like to be able to sort my notes (by date, name, website, etc.)
34. As a user, I would like to be able to toggle note visibility on and off
- ~~35. As a developer, I would like the extension to connect to the same database as the central website.~~
36. As a user, I would like to login once and have access to both the central site and the extension.
- ~~37. As a developer, I would like to be able to send data from the central site to a user's email.~~
38. As a user, I would like to enable/disable email notifications.
39. As a user, I would like to be able to have a nearly equivalent experience with the web app on my mobile device as my PC.

Non-Functional Requirements

1. As a developer, I would like the extension to connect to the same database as the central website.
2. As a developer, I would like to develop the back end server using Flask.
3. As a developer, I would like to develop the front end in React.
4. As a developer, I would like my application to be search engine optimized.
5. As a developer, I would like my application to support many concurrent users.
6. As a developer, I would like my application to have robust error-handling.
7. As a developer, I would like to design my application so that scaling the application requires minimal renovation of the code base.
8. As a developer, I would like to create an aesthetically-cohesive suite of applications with a simple and memorable design..
9. As a developer, I would like to prevent SQL injection.
10. As a developer, I would like user data to be secured during transmission.
11. As a developer, I would like for the server to be able to efficiently communicate with a database to store user data.

12. As a developer, I would like for the server to be able to pass information back and forth between the database and the browser extension in real time.
13. As a developer, I would like to implement my server functionality using the principles of RESTful APIs.
14. As a developer, I would like to host my server on an AWS EC2 instance.