



CS 307 Team 3 - Sprint 2 Planning Document

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Sprint Overview

Throughout our second sprint, we will be working on iterating upon what we have already set up. The bulk of our application is, at its foundation, functional. In that sense, we have made good progress, and our tasks will mostly be to improve what we have already implemented. On the backend, we are going to work on improving the efficiency of our algorithm, and ensuring our authentication process and account creation works as expected. We will continue to style our pages, discuss our user experience, and more efficiently allot our time.

Scrum Master: Audrey Vincent

Meeting Schedule: Monday and Tuesday at 8 PM

Risks & Challenges

Moving forward, we have come to understand the importance of communicating efficiently from the very beginning of the sprint so that there is not a large amount of tasks to implement as the deadline nears. As a team, we also learned from the first sprint that properly dividing tasks and allocating them to each member, as well as consistently scheduling time to work on said tasks, is something we are still striving to improve upon.

However, we feel that we have made improvements on our communication methods and understand what aspects of our teamwork need to be worked on.

Code-wise, we have found less challenge in developing our summarization algorithm than we expected, and will be iterating upon it to improve efficiency.

Fleshed out User Stories that will not be implemented this sprint

User Story #13

As a user, I want to have fine-grained control over the length of the summary, such as limiting it to one sentence, or just slightly condensing the information. (User Story #11)

#	Task Description	Estimated Time	Owner	Team
1	Create a slider to determine the brevity	2 hours	Ria	Frontend
2	Create the brevity enum	.5 hours	Sawyer	Backend
4	Parse the JSON response from the API into an array of the sentences with their rankings that will be passed to the Frontend	2 hours	Sawyer	Backend
5	Control brevity of the summary by taking a certain number of elements from the sorted array and displaying them to the user	2 hours	Audrey	Frontend
6	Test the parsing of JSON data and the brevity controller	2 hours	Sawyer	Testing

Acceptance Criteria

- Given that the brevity slider is functional, when the user adjusts the slider, then the output summary should contain an amount of sentences commensurate to the brevity setting.
- Given that different sentences outputted are ranked in order of importance, when the user generates a summary, then the summary will consist of the top rated sentences limited by the brevity setting.
- Given that the API response is successfully parsed in the backend, when a summary is generated from the summary module, then it will successfully be passed into the frontend to display to the user.

User Story #14

As a user, I would like to delete irrelevant sentences/bullets from my generated summary (User Story #12).

#	Task Description	Estimated Time	Owner	Team
1	Parse JSON response into sentences that render blocks you can hide and add back	3 hours	Audrey	Frontend
2	Add an icon when you would like to add a sentence before, on hover	2 hour	Ria	Frontend
3	Add icon when you would like to delete a sentence, on hover	2 hour	Ria	Frontend
4	Implement the functionality to keep track of hidden sentences based on brevity	2 hours	Audrey	Frontend
5	Style the add and subtract buttons	2 hours	Ria	Frontend
6	Write tests scripts to ensure functionality of sentence adding/deleting buttons	2 hours	Ria	Frontend

Acceptance Criteria

- Given that JSON responses are properly parsed, when users want to view blocks of sentences to add and delete, the interface will adjust based on the user's request.
- Given that there is a clear icon for adding sentences, when users want to add sentences into their summaries, then it will be simple and intuitive for them to do so
- Given that there is a clear icon for deleting sentences, when users want to delete sentences from their summaries, then it will be simple and intuitive for them to do so

User Story #15

As a developer, I would like to have an optimized algorithm for summarizing text.
(User Story #31).

#	Task Description	Estimated Time	Owner
1	Compute chain strength dynamically	2 hours	Kevin
2	Experiment and pick a new heuristic for determining word relevance to a chain	6 hours	Kevin
3	Implement a non-greedy algorithm for lexical chaining	10 hours	Kevin
4	Experiment with optimal chain amount from important chain selection	2 hours	Kevin, Ian
5	Experiment with optimal word amount from important word selection	1 hour	Kevin
6	Experiment with better sentence ranking heuristics using lexical chains	3 hours	Kevin
7	Add documentation (Readme) for the Summarization Module	4 hours	Kevin, Ian

8	Ensure that all test cases still pass and add new test cases when relevant	2 hours	Kevin
9	Add automated build and install scripts to increase maintainability on remote servers.	2 hours	Ian

Acceptance Criteria

- Given that chain strength is computed dynamically and a different heuristic is chosen for word relevance, when users attempt to summarize information through our web app, their summary will be computed faster than it would have before
- Given a non-greedy lexical chaining algorithm and an optimal amount of words/chains, when users attempt to summarize information through our web app, their summary will be higher quality.
- Given proper documentation, when a user or developer wants to understand our algorithm and potentially utilize it, they will be able to utilize our resources to do so
- Given automated build and install scripts, when a developer is attempting to interface with our algorithm, then they will be able to do so with ease
- Given well-written test cases for the algorithm, then when a developer wants to test the effectiveness of the algorithm, then they will be able to see through our test cases that it is robust

User Story #16

As a developer, I would like obtain a profile picture for the user (User Story #36).

#	Task Description	Estimated Time	Owner	Team
1	Create a page for users to upload a profile picture, and save it to the database	4 hours	Audrey	Frontend

2	Allow the option for a user to grab their profile picture from their Google account	0.5 hours	Sawyer	Frontend
3	Create endpoint and logic for saving the profile picture	2.5 hours	Lena	Database
4	Create entry in the database for saving the profile picture	2 hours	Lena	Backend
5	Create a component to view user's profile in the main navigation bar	3 hours	Ria	Frontend
6	Testing and documentation of functionality for frontend	.5	Audrey	Frontend/Backend
7	Create documentation for endpoint in backend and creating entry in the database	1 hour	Lena	Backend/Database
8	Testing for endpoint in backend and creating entry in the database	1 hour	Lena	Backend/Database

Acceptance Criteria

- Given that there is a clear indicator on the frontend to upload a picture, when users will click on the area to upload a photo it will open up an option to upload from their local file storage.
- Given that there is a clear error/success message, when the user uploads an image, there will be a clear message on the front end indicating a success or fail.
- Given the success of the image upload, the user's profile image will appear on the profile page for the specific user, and on the main navigation bar.
- Given that the user's account is connected to Google Drive, the user will be able to attach a profile picture from their connected account.

Architecture and Performance

User Story #17

As a user, I would like to export my summaries to text files or Google drive (User Story #17).

#	Task Description	Estimated Time	Owner	Team
1	Hook into the Google Drive API on both Frontend and in our Database	3 hours	Sawyer	Backend/Frontend
2	Create functions that will allow us to push data that is stored on our database to Google Drive folders	2 hours	Sawyer	Database
3	Give users an option to download the summaries as a text file	2 hours	Audrey	Frontend
4	Give users an option to export to Google Drive	2 hours	Audrey	Frontend
5	Test and documentation of functionality	.5	Audrey	Frontend

Acceptance Criteria

- Given that the Google Drive API is properly integrated into our application, when a user wishes to interface with their files, they will be able to do so through Google Drive.
- Given that there are functions that allow us to push data stored on our database to Google Drive folders, when a user adds a folder to their simplif.ai account, it will be capable of being stored on Google Drive
- Given that the Google Drive API is properly integrated into our application, when users wish to use Google Drive functions with their simplif.ai files, they will be able to do so

Users can organize their notes and summaries

User Story #18

As a user, I would like to save my summaries to a database (User Story #16).

#	Task Description	Estimated Time	Owner	Team
1	Send the summary to the Database	3 hours	Lena	Backend
2	Test the data stored in Database	1 hour	Lena	Testing
3	Create documentation adding data to database	3 hours	Lena	Database
4	Implement save button and component to view the corresponding updated list of summaries	4 hours	Audrey	Frontend
5	Create endpoint to return a list of the user's notes in the database	2.5 hours	Lena	Backend/Data base
6	Create documentation for the list of user's notes in the database	1 hour	Lena	Backend/Data base
7	Test the list of user's notes in the database	1 hour	Lena	Backend/Data base

Acceptance Criteria

- Given that the summary is added to the Database correctly and tested properly, when implemented then it will be simple for us to access the summary data upon a user's request.
- Given well-written documentation for sending data to the database, when we wish to send data, there will be clear and easy to read instructions on how to utilize them
- Given that the user saves a summary, the frontend will respond with correct error/success messages.

Users can organize their notes and summaries

User Story #19

As a user, I would like to create an account (User Story #1).

#	Task Description	Estimated Time	Owner	Team
1	Create an endpoint to add a new account	2 hours	Sawyer	Backend
2	Create a component for the user to register for an account	2 hours	Audrey	Frontend
3	Style the register page	2 hours	Ria	Frontend
4	Test account creation	2 hours	Ria	Frontend

Acceptance Criteria

- Given that there is an endpoint to add a new account, when a user registers for an account, they are able to do so.
- Given that there is a component for the user to register for an account, when a user registers for an account, there will be functionality in the app for them to do so and be stored in the database.
- Given that the register page is properly styled, when a user wishes to create an account, they will find the register page intuitive and aesthetically pleasing.

User Story #20

As a user, I would like to adjust the brevity of my summary by generating more or less sentences (User Story #14).

#	Task Description	Estimated Time	Owner	Team
1	Create frontend element (slider) that a user can adjust	2 hours	Audrey	Frontend
2	Change the actual length of the summary	2 hours	Audrey	Frontend

	that is displaying when the slider updates			
3	Write tests to ensure the functionality of the slide	2 hours	Ria	Frontend

Acceptance Criteria

- Given that there is a brevity slider implemented on our web page, when users want to adjust the length of their summary, then they will easily be able to understand how.
- Given that there is a brevity slider implemented on our web page, when users want to adjust the length of their summary, then simplif.ai will be able to adjust the brevity of the summary accordingly.
- Given that there is a brevity slider available on our web page, then when a user utilizes the slider, then they will find it aesthetically pleasing.

User Story #21

As a user, I would like to have an option to display my summaries in night mode (User Story #28).

#	Task Description	Estimated Time	Owner	Team
1	Create an endpoint for storing the display mode (night or day) in the database	1 hour	Sawyer	Backend
2	Create an entry in the database to store the night mode preference	.5 hours	Sawyer	Database
3	Create design for night mode on the front end	3 hours	Ria	Frontend
4	Create tests for night mode	2 hours	Ria	Frontend

Acceptance Criteria

- Given that the night mode scheme is implemented correctly, when a user selects the night mode option then the scheme of the web app should change to be a darker theme.
- Given that the night mode scheme is implemented, when a user selects the night mode option then they will find it aesthetically pleasing and appropriately easy on the eyes during the night
- Given that night mode is implemented correctly, when a user switches to night mode then the webapp should change in a fast manner.

User Story #22

As a user, I would like to change my web page color scheme (User Story #29).

#	Task Description	Estimated Time	Owner	Team
1	Add button option for user to change color scheme	2 hr	Ria	Frontend
2	Style button and inputs to change color scheme	2 hr	Ria	Frontend
3	Wrap app state for color scheme to propagate through application	1 hr	Audrey	Frontend
4	Test functionality on Frontend	1	Audrey	Frontend

Acceptance Criteria

- Given that the color scheme options are implemented correctly, when a user selects a different color scheme then the web app should be updated to show the new color scheme.

- Given that the color scheme options are implemented correctly, when a user wants to select a different color scheme, they will be able to choose from a pleasing selection.
- Given that the color scheme options are available, when a user wishes to change their color scheme, they will be able to navigate to the scheme options and change them with ease.

User Story #23

As a user, I would like to use a Slack bot that uses simplif.ai (User Story #21).

#	Task Description	Estimated Time	Owner	Team
1	Hook into Slack API	2 hours	Sawyer	Backend
2	Create backend logic for slack bot to communicate with summarizing API	2 hours	Sawyer	Backend
3	Create the slack bot in its own app.js that will house the frontend logic of the bot	3 hours	Sawyer	Frontend
4	Write tests for slack bot to ensure proper functionality	3 hours	Sawyer	Backend

Acceptance Criteria

- Given that the Slack bot is created, when a user wishes to utilize simplif.ai's functionality while in a slack channel, they will know how to do so.
- Given that the Slack bot is properly implemented, when a user attempts to summarize a text by calling the bot, then the Slack bot will return a summary of the text.
- Given that the Slack bot is implemented correctly, when a user wants to make a summary through slack then they should be able to easily call the bot for the summary.

User Story #24

As a developer, I would like to have users store their contact information (User Story #35).

#	Task Description	Estimated Time	Owner	Team
1	Create database entry for storing additional information like phone number and email	1 hours	Sawyer	Database
2	Create backend logic and endpoint for adding contact information like phone number and email	3 hours	Lena	Backend
3	Add documentation for backend logic and endpoint adding contact information	1 hour	Lena	Backend
4	Test backend logic and endpoint adding contact information	1 hour	Lena	Backend
5	Create input field on the frontend and implement fetch call to save	2 hours	Audrey	Frontend

Acceptance Criteria

- Given that we implemented the database scheme correctly, when a user logs in for the first time their information will be added to the database.
- Given that we store their contact information correctly, when we need to send an email to the user then we should be able to retrieve the user's contact info.
- Given that we store their contact information correctly, when we need to give a user information then we should have some options in which to contact them.

User Story #25

As a user, I would like to organize my files into folders using Google Drive (User Story #).

#	Task Description	Estimated Time	Owner	Team
1	Create backend logic for adding files to Google Drive folders	2 hours	Sawyer	Backend
2	Create frontend button for adding files to Google Drive	2 hours	Ria	Frontend
3	Create documentation the Google Drive API calls	1 hour	Sawyer	Backend
4	Test the Google Drive folder functionality	2 hours	Lena	Backend

Acceptance Criteria

- Given that there is backend logic for adding files to Google Drive folders, when a user wishes to add a file to their Google Drive folder, then they will be able to do so.
- Given that there is a frontend design for moving files into folders in Google Drive, when a user wishes to move files to folders in Google Drive, it will be visually clear and intuitive to do so.
- Given that there is a frontend design for moving files into folders in Google Drive, when a user wishes to move files to folders in Google Drive, then they will be able to do so and subsequently be able to view their files in Google Drive.

User Story #26

As a user, I would like to add collaborators to different folders using Google drive (User Story #19).

#	Task Description	Estimated Time	Owner	Team
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1	Set up Google Drive API	2 hours	Sawyer	Backend
2	Create database entry for collaborators	.5 hour	Sawyer	Database
3	Create backend endpoint and logic for adding collaborators	3 hours	Lena	Backend
4	Create frontend option to add collaborators	2 hours	Ria	Frontend / Design
5	Create documentation for backend and endpoints	1 hour	Lena	Backend
6	Test backend logic and endpoints	1 hour	Lena	Backend

Acceptance Criteria

- Given that the Google Drive API is set up, then when users want to be able to utilize Google Drive functions, they will be able to do so.
- Given that there is backend functionality for collaborators, when users want to add collaborators to their summaries, they will be able to do so.
- Given that there is documentation for endpoints, when developers wish to test endpoints, then there will documentation for them to reference.

New User Story #27

As a user, I would like to host my web application on the internet (New User Story).

#	Task Description	Estimated Time	Owner	Team
1	Create a place to host the web app on aws	8 hrs	Ian	Backend
2	Write scripts to make pushing to the container easier or use a syncing method	6 hrs	Ian	Backend
3	Test that the application works fully on	2 hrs	Ian	Backend

	the deployed site.			
4	Automated testing, linting, build, deploy scripts for the web app	6 hrs	Ian	Backend

Acceptance Criteria

- Given that the web application is hosted correctly, when a user navigates to the url then it will load the web app.
- Given that there is automation implemented for the web app, then when users or developers wish to deploy simplif.ai, then their development experience will be made easier through automatic testing, linting, building and deploying for the app.
- Given that the web application is hosted correctly, when a user navigates to the url then the app will display full functionality for the user.

Remaining Backlog(12/39)

Users would have an account for the app

- ~~1. #19 As a user, I would like to create an account.~~
- ~~2. #3 As a user, I would like to be able to reset my password if I forget it.~~
- ~~3. #2 As a user, I would like to edit my account, sign out, and delete my account.~~

Users can summarize their notes

- ~~4. #6 As a user, I would like to have a place to input text.~~
- ~~5. #4 As a user, I would like to summarize information from plain text.~~
6. As a user, I would like to summarize information from online articles.
7. As a user, I would like to summarize information from pdf files, if time permits.
8. As a user, I would like to summarize information from ppt files, if time permits.

9. As a user, I would like to summarize information from video captions, if time permits.
- ~~10. #5 As a user, I would like to generate a list of condensed information from text.~~
- ~~11. #13 As a user, I want to have fine-grained control over the length of the summary, such as limiting it to one sentence, or just slightly condensing the information.~~

Users can edit their summarized notes

- ~~12. #14 As a user, I would like to delete irrelevant sentences/bullets from my generated summary.~~
- ~~13. #7 As a user, I would like to modify the text of sentences/bullets from my generated summary.~~
- ~~14. #20 As a user, I would like to adjust the brevity of my summary by generating more or less sentences.~~
- ~~15. #8 As a user, I would like to use a text editor to finalize the summary of my text.~~

Users can organize their notes and summaries

- ~~16. #18 As a user, I would like to save my summaries to a database.~~
- ~~17. #17 As a user, I would like to export my summaries to text files or Google drive.~~
- ~~18. #26 As a user, I would like to organize my files into folders using Google Drive.~~
- ~~19. #27 As a user, I would like to add collaborators to different folders using Google drive.~~
20. As a user, I would like to be able to use this service on a spotty Internet connection (offline mode).

Users can use outside application to integrate with summarized notes

- ~~21. #23 As a user, I would like to use a Slack bot that uses simplif.ai.~~

22. As a user, I would like to record lectures or speech and input the dialogue into our summarize application, if time permits.

Users can manage their schedule through their summarized notes

23. As a user, I would like to receive email updates about important upcoming dates extracted from my notes.

~~24. #24 As a user, I would like to be able to toggle the option to receive email updates.~~

25. As a user, I would like to be able to add important upcoming dates to my Google Calendar upon receiving an email update.

Users can easily navigate the application with a comprehensive design

~~26. #9 As a user, I want the web application to have an easy-to-read font.~~

27. As a user, I would like a tutorial or a help system for me to learn how to use the app.

Users have option of changing application design

~~28. #21 As a user, I would like to have an option to display my summaries in night mode.~~

~~29. #22 As a user, I would like to change my web page color scheme.~~

Application summarizing functionality

30. As a developer, I would like to scan a web page and input the parsed information into my database.

~~31. #15 As a developer, I would like to have an optimized algorithm for summarizing text.~~

~~32. #11 As a developer, I would like to implement an API for our service.~~

Application account functionality

~~33. #10 As a developer, I would like users to be able to securely login.~~

~~34. #12 As a developer I would like to have a database where I can store data about the user.~~

~~35. #25 As a developer, I would like to have users store their contact information.~~

~~36. #16 As a developer, I would like to obtain a profile picture for the user.~~

Keep telemetry and manage the application

37. As a user, I would like to be able to report issues to the developer.

38. As a developer, I would like user feedback.

~~39. #1 As a developer, I would like to have proper documentation, coding standards, and version control standards.~~

Additional User Stories

- As a user, I would like to host my web application on the internet

Total Hours

Name	Hours
Sawyer	30
Ian	30
Kevin	30
Lena	30
Audrey	30
Ria	32