Application Proposal

1) Overview

a. What is the problem we are trying to solve?

People's attention span has been decreasing over the years and social media has contributed to this effect. Reading can stimulate the imagination, help people to refocus and open the mind to different ideas and cultures. Reading could help people to learn and entertain themselves more meaningfully. The We Read website aims to help people find and discover books more easily.

b. Why are we doing this?

The purpose of the We Read website will allow to search for books by title, author, genre and keywords. It will also give inspiration through the New York Times best reads and reviews. Additionally, it will facilitate the purchase of books through links to Amazon. Finally, the user can create an account to build a personalized Wishlist of books. The website will serve as a platform to get people to read more or to start to read, a book at a time.

2) Who is the audience?

The target audience is teenagers, young adults and adults regardless of gender. They may be avid readers or in search of a book that will start their reading journey. The teenagers and young adults' audience would highly access the site with a phone and more mature audience with a desktop or a laptop.

## 3) List of the major functions of the application.

- Search functionality by keyword, title, author and genre.
- Display the result of the search query: title, image and short description.
- Display detailed information about a title and an author: title, image and details.
- Display the New York Time reviews and best reads: get 3 random recommendations.
- Link to buy a copy of a book through Amazon.
- User registration: get the user's name, email and password.
- User login: use the user's email and password.
- Create a Wishlist: only books can be added in a wishlist.
- View and edit the Wishlist: display the wishlist and remove a book at a time.

4) Wireframes of the major views

a. Homepage
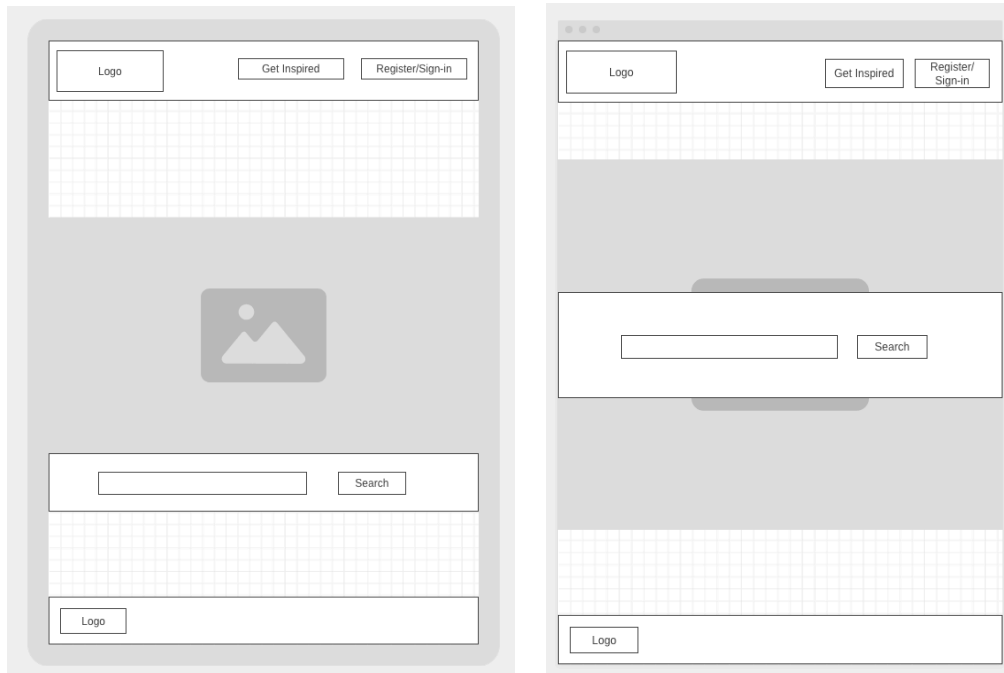
b. Results page
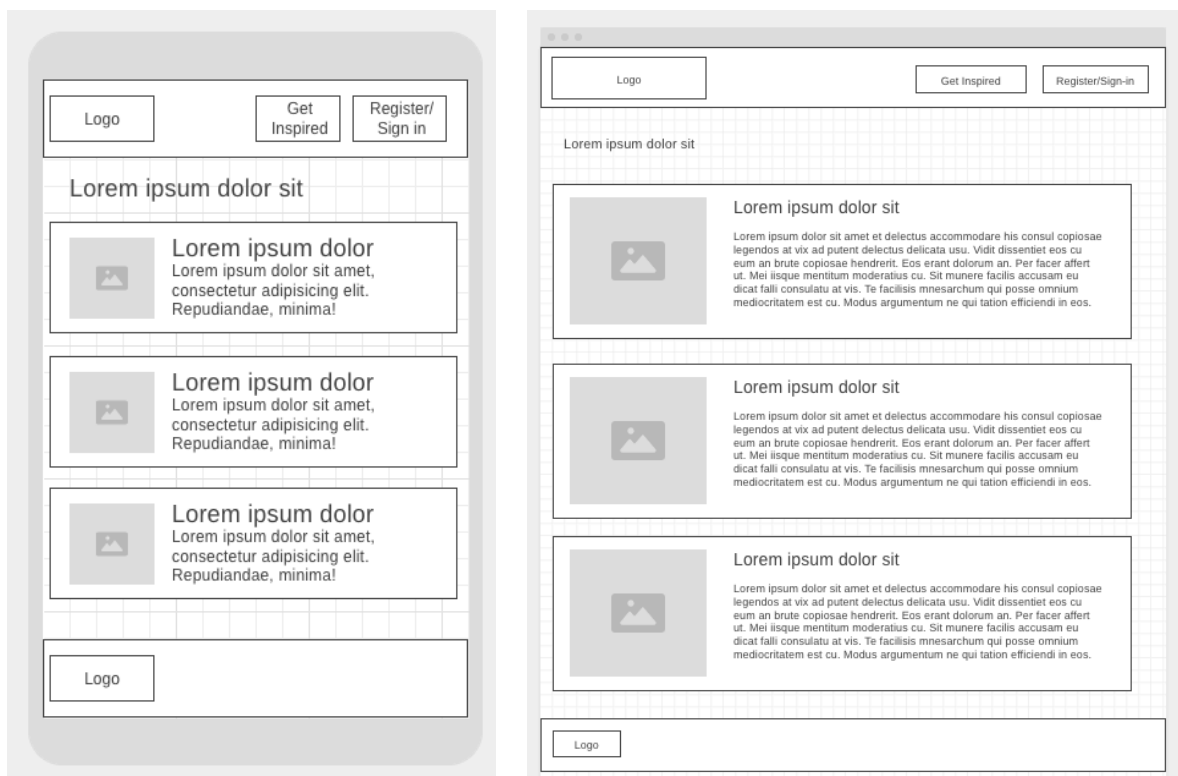
5) External API Data source(s).

Google Books API: title, subtitle, authors, publisher, publishedDate, description, industryIdentifiers (ISBN), imageLinks. salesInfo, accessInfo.

New York Time Books API: list_name, display_name, bestsellers_date, published_date, rank, rank_last_week, weeks_on_list, amazon_product_url, book_details, reviews, book_review_link.

6) Initial Module list

a. HTML

- Home page with a search bar.
- Search Results page.
- Detailed page about a book with reviews from the New York Times and a link to purchase the book on Amazon.
- Detailed page about an author and the books published.
- Registration page with a form (name, email, and password).
- Sign-in page with a form (email and password).
- Wishlist page with books with minor details.
- Inspiration page with Best reads from the New York Times.

b. CSS

- Create a responsive style for mobile and desktop.
- Use a flex box to display the results and details pages.

c. JSON

- Store the registration data.
- Store the Wishlist books.

d. JS

- Fetch Google Books API by keyword, title, author, and genre for search results.
- Fetch Google Books API by title.
- Fetch New York Times Books API by title and provide Amazon link.
- Fetch Google Books API by author.
- Submit the registration form and send POST request to create a new account.
- Submit login form and send GET/POST request.
- Fetch and display the Wishlist.
- Fetch New York Times Books API Best Reads randomly.

7) Colors/Typography/specific element styling

a. Color Palette

Primary	Secondary	Accent 1	Accent 2
[#A89058]	[#FFEAB8]	[#F5D998]	[#4765A8]

b. Typography

- Heading Font: Playfair Display, Times.
- Paragraph Font: Roboto, Arial.

c. Specific Element Styling

- Buttons: Rounded corners and use the Accent 2 color for the background and white text.
- Search bar: Rounded corners and use the Secondary color for the background and Primary color text.
- Navigation bar and footer: Use the Accent 1 for the background color.

8) Schedule

Week 5

- Create a dynamic header and footer
- Search functionality: set up the API connections for Google Books and The New York Times Books.
- Search functionality: search by keyword, title, author and genre.
- Display the results: title, image and short description.
- Display the book details page: title, image and details for a selected book.
- Display the author details page: name, image and books published.

Week 6

- Registration form: create a registration form.
- Registration: create a JSON file with the user data.
- Login form: create a login form.
- Wishlist management: create a wishlist.
- Wishlist: view the wishlist.
- Wishlist: edit the wishlist.

Week 7

- Get inspiration: fetch and display 3 random Best reads.
- Display reviews: fetch and display 3 random reviews on the details page of a book.
- Amazon link: include links to purchase a book via Amazon.
- Sort results by published date or alphabetically.
- Look up in the wishlist.

9) Trello board

Link: https://trello.com/b/crNdAWGX/weread