2023

PROJECT DOCUMENT

GROUP
3

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INTRODUCTION

Objective

- The objective of the project is to produce a full stack application that integrates front-end, back-end, database and API technologies.
- To develop a comprehensive understanding of the software development life cycle, from requirements gathering to deployment.
- To gain experience working collaboratively including problem solving, debugging, learning new techniques and technologies.
- To develop a project that showcases our skills and experience as well as developing a project that meets a specific user's needs.

Goals

- The goal of the project is to create a wellbeing book tracker, specifically allowing users to focus on managing their reading habits.
- Create an accessible website that allows users access to tools and resources relating to personal growth, mental health, self-care and overall wellbeing.
- Its target audience is for individuals that want the ability to track their reading and progress.
- To help users find new books and recommendations based on recent releases relating to wellbeing.
- To provide a platform to allow users to review books.
- To provide a comprehensive and reliable database of book information, including synopses, book covers, and author information.

Project concept

The concept that is being built is a wellbeing booker tracker application called ‘Serenity’. The application focuses on tracking and storing books relating to personal growth, mental health, self-care and overall wellbeing. It aims to provide users with the tools and resources to enhance their wellbeing whilst being a easy, accessible and a friendly application to use.

Serenity aims to help individuals that are interested in wellbeing, personal growth, mental health and self-care. This includes but not limited to those that are actively seeking resources to enhance their personal development. Avid readers who are interested in specific books relating to self-care, mindfulness, journalling and other areas of wellbeing. Individuals who are trying to incorporate reading into their self-care routine. Working professionals and practitioners require books relating to therapies, guidance and coping strategies.

PROJECT OUTLINE

Planning and design

A Miro board (Appendix 1) was created to help brainstorm initial ideas, features and functionality, languages to be used and limitations.

A group meeting was held to discuss the features and functionality further. Based on these ideas, nine features were listed as a group. Each individual within the group was assigned a feature, and a user story was created. To create these user stories a mixture of Figma and draw.io were used (Appendix 2).

Once the beginning stages of planning had been determined, a JIRA board was created with all members of the team added as collaborators. Here, we collaboratively added tasks relating to design considerations, front-end development, back end development, databases and API's. Going forward, we will have regular team meetings so that we stay on track, assess the number of tasks allocated and help each other when needed. To ensure version control GitHub will be utilised. This allows for effective collaboration, code management, and tracking changes made by team members.

Front end development

Based on skill set, competencies and considering timelines, the languages we decided to use for front end development are HTML, CSS and javascript. These languages are important to help create the skeleton and design features for our website.

Back end development

Python, node.js and express.js will be used for back end development. This will help provide structured and clear code where we can add comments to help with collaboration, debugging and readability. This will form the infrastructure for our application.

Database and API

MySQL Workbench and Google Books API will be used. MySQL will be beneficial to store and retrieve data. Google Books API provides a large amount of book data, including book covers, titles, authors and book descriptions.

Main features

The main features of our project are:

- Homepage - including user to register or login options, description of the website, carousel of books
- Top Picks page - search bar facility, preview of books that are available, ability to add books to 'My Account'
- My Account page - list and preview of books that have been added to 'My Account'
- About Us - Overview of the purpose of the website and a 'meet the team' section
- Homepage once logged in - Ability to access 'My Account' once signed in and authentication has been applied.

Colour scheme

At this time, the colour scheme that we have selected is below.

The main reasons that these colours have been chosen are because they represent calmness, nature, wisdom and life. As the concept of our project is wellbeing these colours match the aesthetic and design and will help portray these themes for the user. Additionally, we have chosen to use pastel versions of these colours to provide an easily accessible and readable website where the user feels calmness when using this space.

Wireframe Design

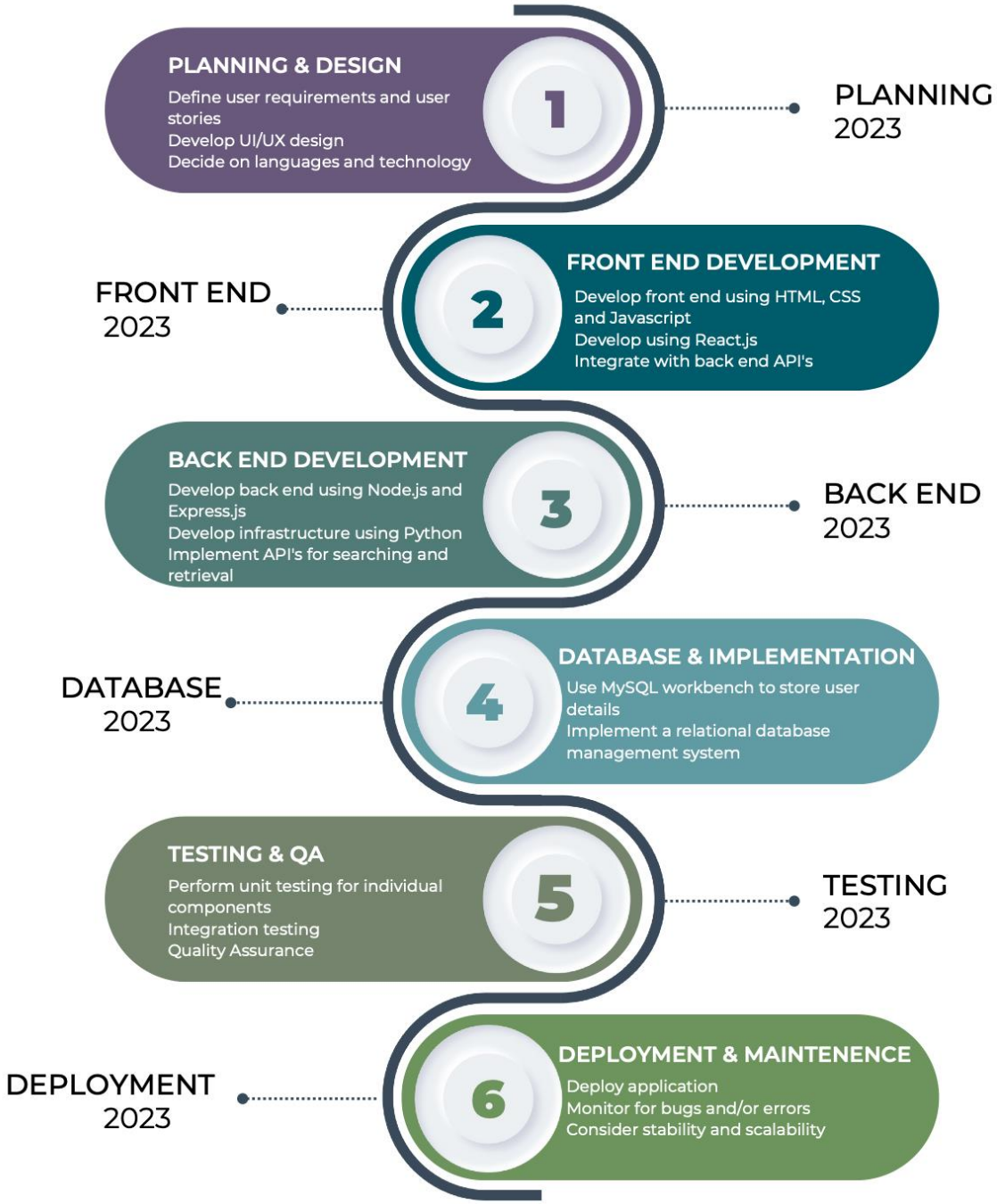
The wireframes for this project are attached as an image inside the documentation folder.

The design is geared towards accessibility and contains user-friendly features.

The login on the homepage is set out using the 'Z' style, similar to Facebook as we know people will notice it when they quickly scan over the page.

Workload assignment

Workload will be assigned to individuals using our JIRA board. Here, we can manage progress, issues and workloads. Combined with this we will be having regular meetings to see what progress people have made within their tasks, what issues if any have arisen or are foreseen. This will allow members of the team to help others, manage priorities and expectations. We will be splitting the group into front-end and back-end subgroups so we ensure that no aspects of the project are neglected.

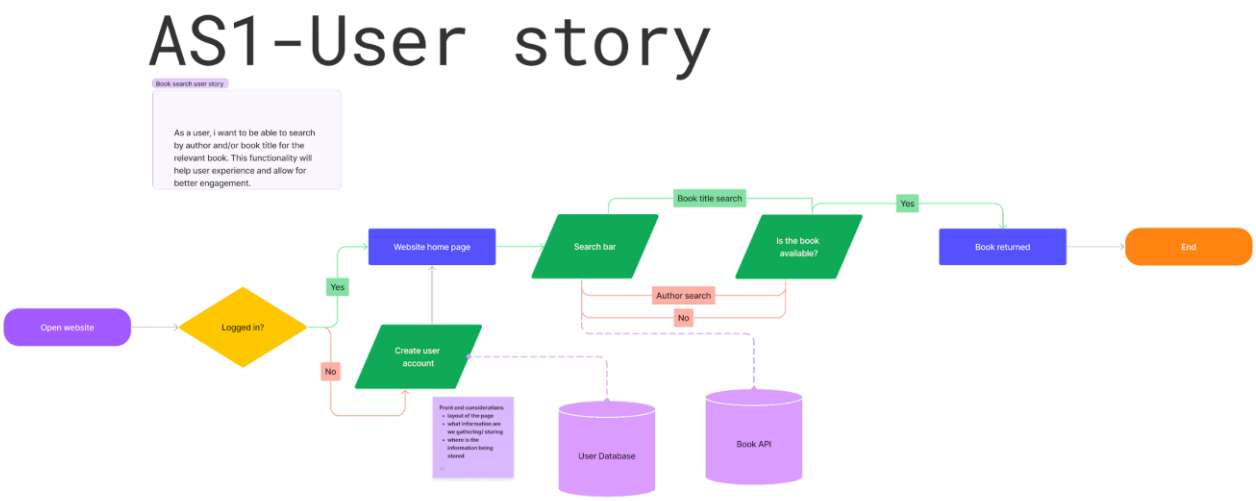


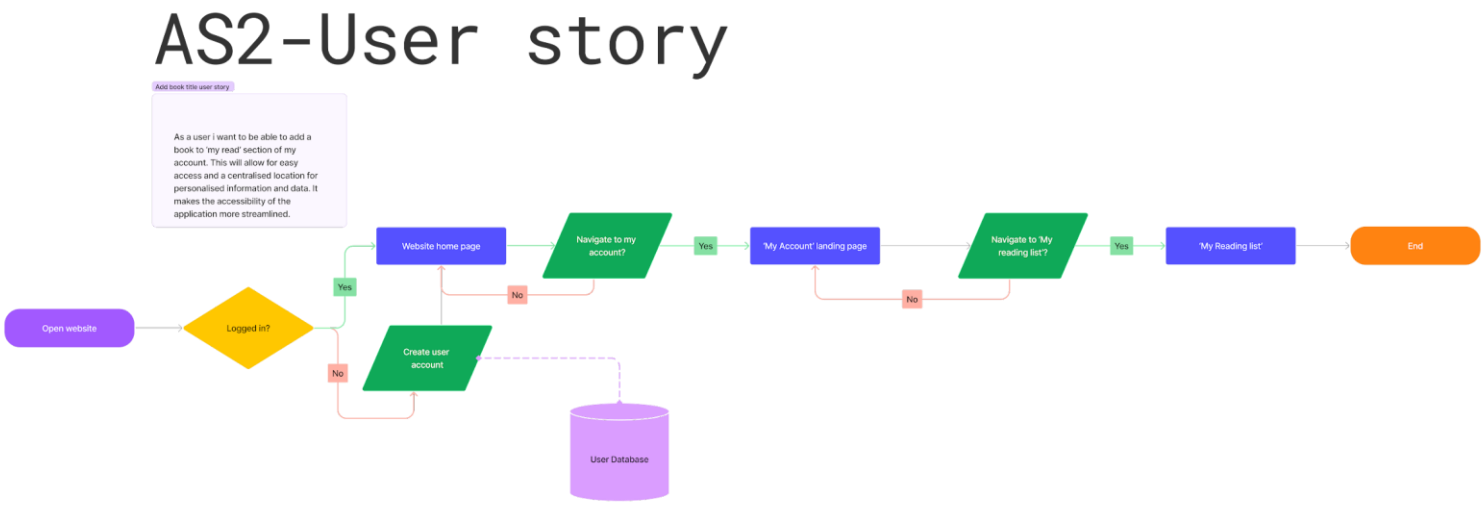
ROADMAP TIMELINE

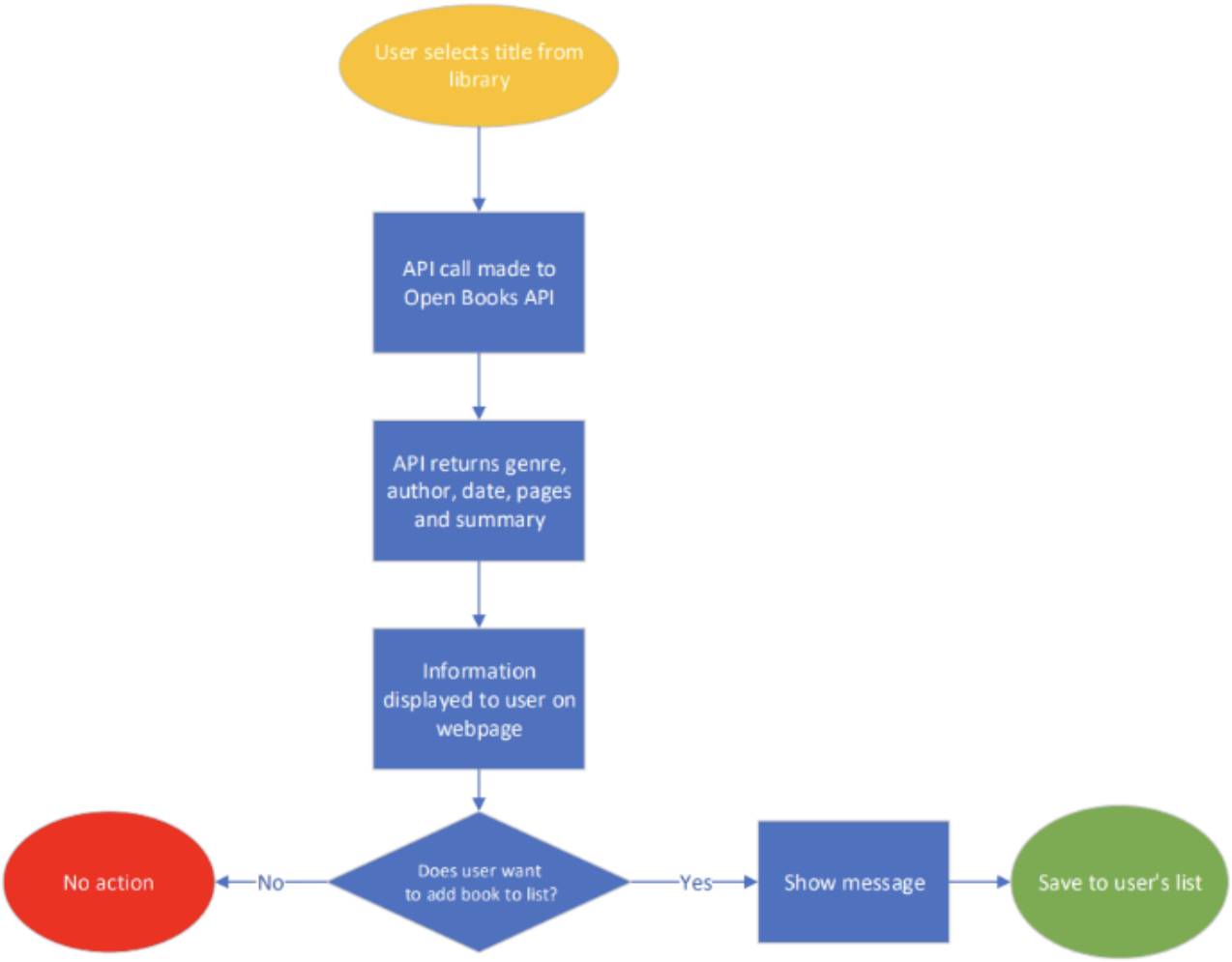
APPENDICES

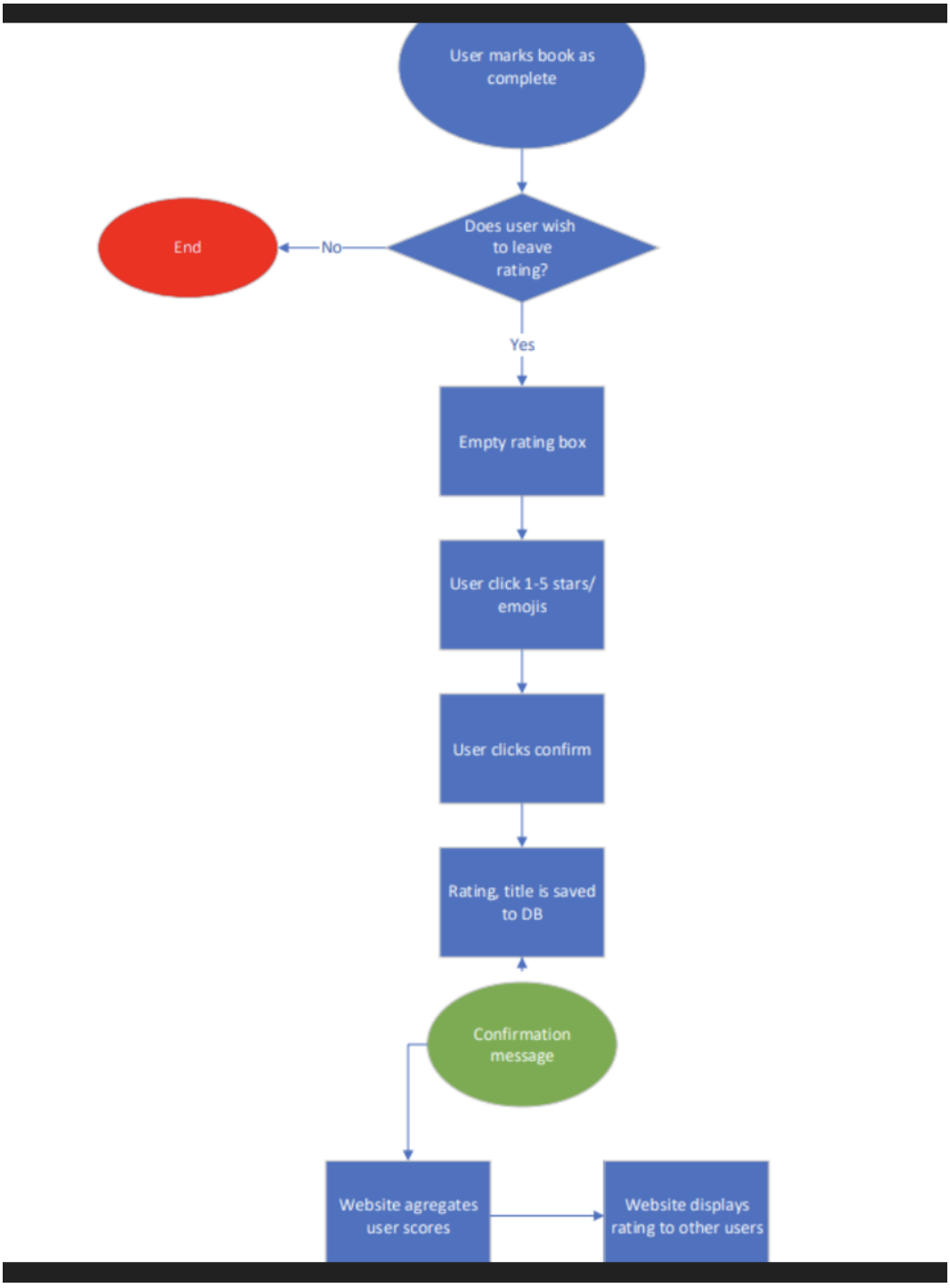
Appendix 1: Miro Board - initial project ideas

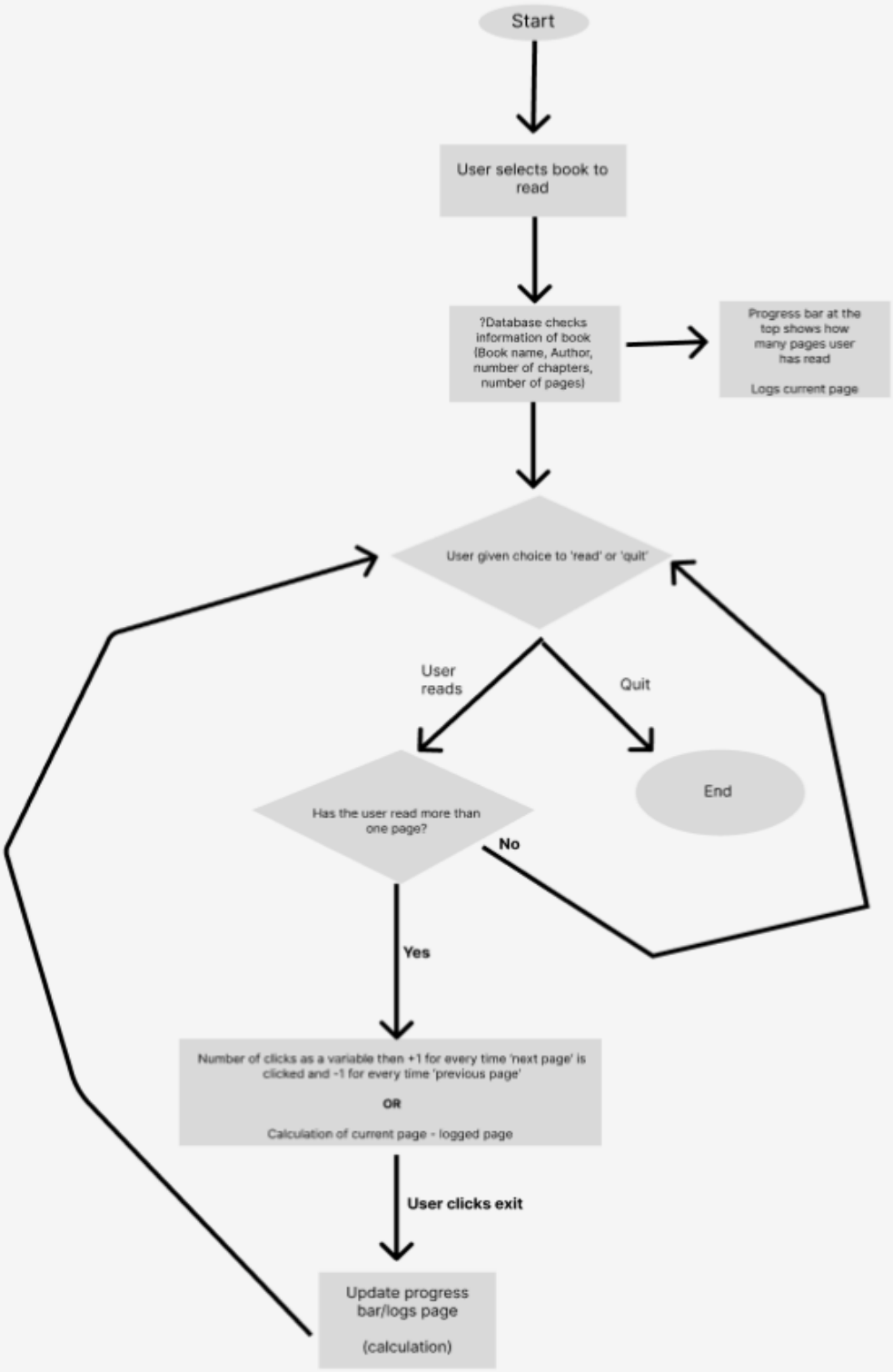
Appendix 2: User stories






User selects title from library
API call made to Open Books API
API returns genre, author, date, pages and summary
Information displayed to user on webpage
Does user want to add book to list?
No
No action
Yes
Show message
Save to user's list


User marks book as complete
Does user wish to leave rating?
No
End
Yes
Empty rating box
User click 1-5 stars/ emojis
User clicks confirm
Rating, title is saved to DB
Confirmation message
Website agregates user scores
Website displays rating to other users

Task:

- add number to total pages of current read and input how many the user has read so far, show progress bar)