ADT Final Project Report

Project Title: Readify

Team 24

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Submit a word document/pdf - Technical Report/Documentation

In this report you must provide:

1) Deployed A URL: https://readify-app.herokuapp.com/

2) Github URL: https://github.com/shubhambhagat98/Readify

This final technical report can be added as a section to your Final Project work (with Part 1, Part 2, Part 3) but it can be just a separate document

Part 3

Tools Used (a brief summary of what you described in Part 3, for example, what is your front/back end, programming language...)

Frontend :

On the frontend, we used React Framework, a Frontend Javascript Library for developing web apps, and we followed a component-based architecture that allows components to be reused in a single page application.

Backend :

We utilized the flask framework in the backend since flask is a microframework for using python in backend development. We're defining methods that can handle both GET and POST requests from the front end, as well as database objects that interact with the database, so we're fetching records from the database, converting them to JSON data, and feeding that JSON data to the front end. We're also using JWT Tokens for the login system, so we can fetch any confidential information like profile information or personal booklists only after token validation.

Data Storage:

We used a relational database, which is the MySQL database, and the queries were written in Structured Query language in such a way that they would provide the user with the desired results.

We are also using the SHA256 hashing algorithm to hash our password since our password is not stored as plain text instead, we are storing them as hash values.

Data Summary:

- The dataset link is https://zenodo.org/record/4265096#.YifPaRPMJhF
- The dataset consists of one single CSV file which is Best_Books_Ever.
- The Best_Book_Ever contains 25 different fields. For example: Book's title. Author, Rating, and more.
- The Source of this data set is Zenodo.org GoodReads Best Books Ever.
- The dataset consists of 25 variables and 52478 records corresponding to books on the GoodReads Best Books Ever list.
- The database is open for public use.

- The original code used to retrieve the dataset can be found on the GitHub repository: github.com/scostap/goodreads_bbe_dataset
- The information was obtained in two parts: the first 30000 books and the remaining 22478. Dates were not processed and reformatted on the second chunk, therefore publishDate and first publication date for the initial 30000 entries are represented in a mm/dd/yyyy format, and Month Day Year for the rest.
- The URL in the 'coverImg' column can be used to obtain book cover images if desired.

List of Functionalities for Users (what users can do using your app)

Readify is one of the nicest things for ardent readers. It's going to redefine your reading experience. Here are the following functionalities for users provided by Readify:

- Users can make book lists as well as explore and add favorite books to their accounts. They can keep on updating and deleting books as per their requirement in the booklist.
- Users get the choice to check the ratings, descriptions, and more features of the provided books.
- They can search books based on their genre and ratings.
- Readify is the best thing for a non-reader and readers since it will give you recommendations and choices based on your initial selections and preferences.
- It gives users thorough information about more than 20,000 books, be it bestsellers, genre-specific, or details regarding their author and description.
- Readify gives you the feature of creating your account on any device.
- Readify suggests a wide range of book genres to both readers and non-readers depending on their initial selections when they enter the site.

Teams Contribution overall (if your team has been changed, just provide the most recent contribution). How much each of you contributed (~%contribution by each member and overall tasks [e.g. front end dev, back end dev, design, data cleaning, etc])

● Figma UI Prototyping, Data Cleaning, Application Backend and Queries: Ameya

● Recommendations/Predictions with Queries, Documentation: Shefali

● React Frontend, Database Setup, Frontend-Backend integration, Deployment: Shubham