

The “Top Book of the Week for Each Genre” project aims to create an engaging and user-friendly app that keeps readers informed about the most popular books each week across various genres. This app serves a broad audience, including book enthusiasts, students, reviewers, and casual readers, by providing a straightforward resource for discovering new literary works and staying updated on the latest releases.

User Experience and Workflow

Genre Selection:

- Users start by selecting a genre from options like fiction, romance, mystery, or non-fiction.
- The app presents a list of the top books of the week within the chosen genre, complete with titles and authors.

Browsing Weekly Top Books:

- Users see a scrollable list of top books with titles and authors for each genre.

Data Sources and Processing

- The app aggregates data from reliable sources, including major book retailers, bestseller lists, and literary awards, to identify popular and acclaimed titles.
- It integrates user-generated reviews and ratings from platforms like Goodreads and Amazon.

External Mechanisms and Interface

- The app uses the New York Times Books API to fetch the latest bestseller lists by genre.
- The user interface is designed to be simple and visually appealing, featuring a seamless navigation experience.

Results Presentation

- The app presents results in a clear and accessible manner, allowing readers to discover new books and authors effortlessly.
- Curated lists of book titles and authors cater to users’ reading interests and preferences.

Task Vignettes for Major User Activities

1. Selecting a Genre:

- Users are greeted with a home screen featuring various genre categories.
- After selecting a genre, the app displays the top books of the week in that category, showing only the titles and authors.

2. Browsing Weekly Top Books:

- Users see a list of top books with titles and authors for each selected genre.

Technical Flow for Major Tasks

1. Selecting a Genre:

- Frontend: Display genre categories and handle user interactions.
- Backend: Fetch and return the top books for the selected genre using the NY Times Books API.

2. Browsing Weekly Top Books:

- Frontend: Display a scrollable list of books with titles and authors.
- Backend: Cache frequently accessed data and periodically refresh it by sending requests to the NY Times Books API.