



Uh-Oh! Project

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Advisor: Prof. Fred Annexstein



To-Be-Read Booklist Generator

- Generate list of books for a user to read
- Handle user queries from a front-end
- Communicate to a back-end, obtain books from database
- Return and display booklist to user



Group Information

- Emma Bradford
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- Nolan Daly
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- Project Advisor: Fred Annexstein



Project Goals

Our project is focused on creating an interactive, web-based application that is capable of generating a list of potential books to read based on user criteria. The application will be split into two main parts: a front-end for user interaction and output, and a back-end for processing queries and interacting with our database. The front-end will allow the user to specify some criteria for filtering results, which will then be used by the back-end to generate a list from the database. This list will then be sent to the front-end of the application and displayed to the user.



Intellectual Merits

- Novel to Emma: a get request that filters and gets the desired books from database
- Novel to Nolan: Javascript using Node.js and React



Broader Impacts

- Making reading more accessible
- Broaden your book horizons
- Directing consumerism
- Connecting book nerd to books

Design Specifications

Box types:

Circle: Input/output

Rectangle: processing step

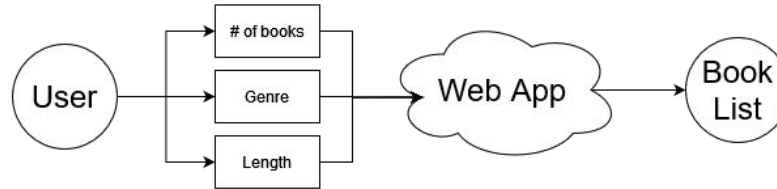
Cloud: movement from front- to back-end (or vice-versa)

Lines represent a movement of information between steps

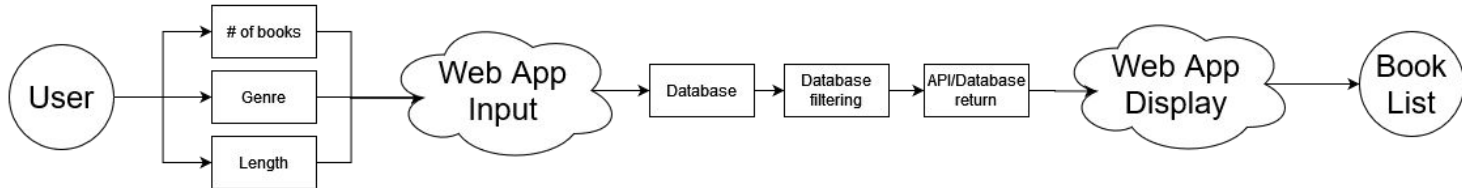
D0



D1



D2





Technology

- mongoDB
- Postman
- React
- Node.js
- Languages
 - Html, Javascript, Typescript, css



Milestones

Rudimentary frontend and backend

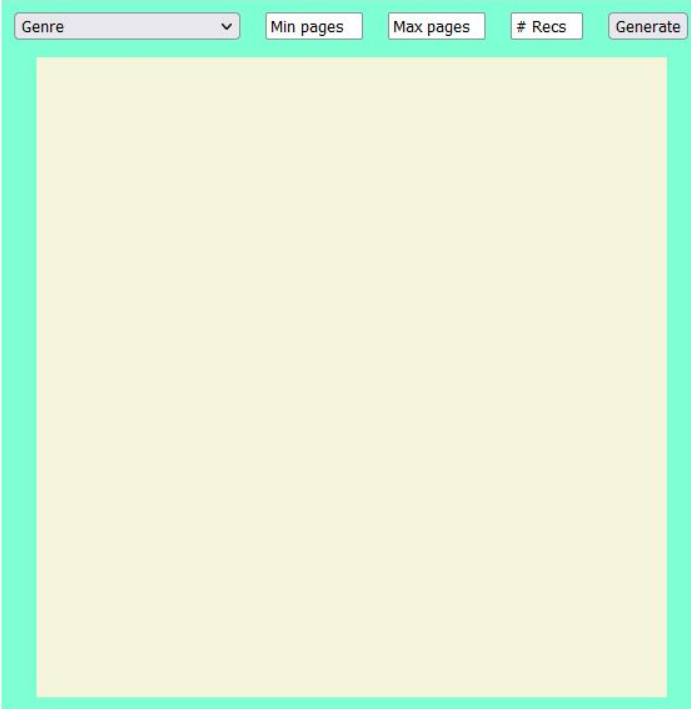
Frontend shows what the website looks like

Backend postman endpoints working



Frontend

To-Be-Read Book List Generator



The screenshot shows a web application titled "To-Be-Read Book List Generator". The interface features a light green border around a central yellow area. At the top, there is a header bar with a teal and orange segment on the left. Below the header, there is a form with the following elements:

- A dropdown menu labeled "Genre" with a downward arrow.
- A text input field labeled "Min pages".
- A text input field labeled "Max pages".
- A text input field labeled "# Recs".
- A button labeled "Generate".

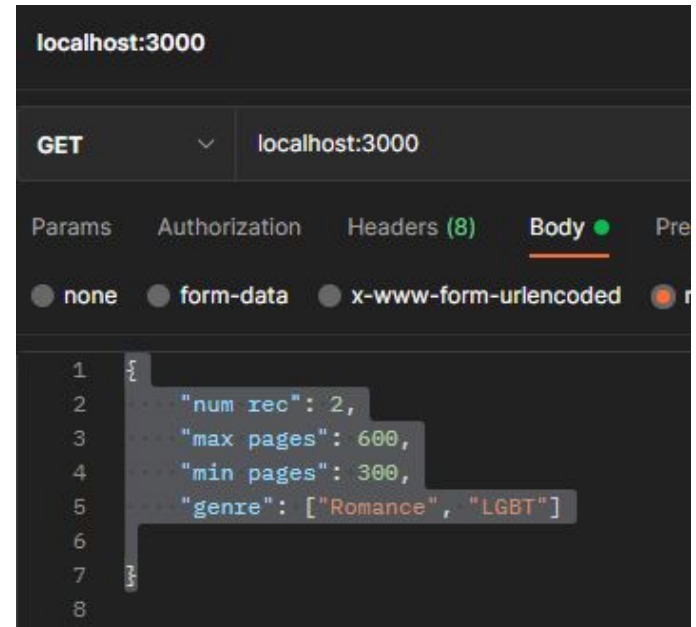
The central yellow area is currently empty, suggesting that no book list has been generated yet.

Backend

```
> {
  _id: ObjectId("622e8cdef84edf123cb11b36")
  genre: Array
  numPages: 416
  author: "Adolfo Gilly"
  title: "The Mexican Revolution"
  __v: 0
}

{
  _id: ObjectId("622e8cfcf84edf123cb11b38")
  genre: Array
  numPages: 203
  author: "Alan Macfarlane & Gerry Martin"
  title: "Glass"
  __v: 0
}

{
  _id: ObjectId("622e8d13f84edf123cb11b3a")
  genre: Array
  numPages: 301
  author: "Alan Walker & Pat Shipman"
  title: "The Wisdom Of The Bones"
  __v: 0
}
```





Challenges

Emma: Connecting to MongoDB with typescript, integrating book module into other parts of backend

Nolan: Learning frontend development and the associated languages (HTML, CSS, Javascript), and web development in general