

## Functional Design Outline

**Name: Kristijan Hornung**

- BookWorm is a web application project that will become a book reading tool for reading enthusiasts.
- It will have a starting page for Logging in (for existing users, with text fields for entering email address and password) and Registering (for new users, with text fields for entering email address, username, first and last name, date of birth, password, and confirmed password).
- The Main (Home) page of BookWorm lets users search books by search criteria (author, title, ISBN) and choose a text they want to read by clicking on the 'Read' button located on each book's respective card. Book reading functionality is implemented with Google Books Embedded Viewer API. Each book's card is filled with important information about that book which is extracted from the Google Books API database.
- The Main page will also provide its users with access to OpenAI API for each book for asking questions about the book (characters, plot-related questions etc., by means of a button which sends a request to the backend for communication with OpenAI API) which they are currently reading. The button for this OpenAI functionality will be positioned close to the Embedded Viewer window for enhanced accessibility.
- Each book card on the Main page will also have an 'Add to Favorites' button which will add the selected book to the user's personal list of favorite books, 'Add to Read' which puts the book on the list of books the user has already finished reading, a 'Plan to Read' button that puts the book on the list of books user plans to read in the future, a 'Comment and Rate' button which takes the user to a different web page: the Comment and Read page, and 'Notes' button that opens a modal with editable text field for personal notes/comments about the book .
- On the Main page, above the areas for searching books and displaying list of search results, and the area for Embedded Viewer, will be positioned three buttons: Favorites, Finished Reading, Wish List. When these buttons are clicked, they will open modals with a list of books in each respective category: Favorites will open a list of favorites user selected, Finished Reading will show a list of books user has read before, and Wish List will display a list of books the user wants to read in the future.
- The application will have a 'Comment and Read' page on which users will be able to rate and comment on books, and see average rating scores based on ratings from other readers, as well as see other people's comments on those books.
- My Account page will serve as a profile page for users, showing their email, username, first and last name, and date of birth. It will contain an Edit Account button for changing user's account data, and a Delete Account button with an option to permanently delete an account from BookWorm.