Software Engineering 5324 OL1 Group Project Review

Members:
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What was the Group Project

- What is the goal?
  - A team of 2-3 members develop a web application using a database
    - For example: eShop, reservation system, rental cars, etc.
  - The teams must use Java, git, Maven, and a Test Framework.
    - Each team will also need to establish a git repository and a form of issue or ticket tracking such as GitHub
  - The data model for the project must have at least 7 entitites
    - At least 1 one-to-many and 1 many-to-many entities

BearBooks

- What is it?
  - A web application that would allow for a staff to monitor and update a database that contains all the books owned by the buisness
- What was our Goal?
  - A working web application prototype that would allow for unique users to register, log in, log out, checkout, update, add, and delete books form the database.

What will we Cover?

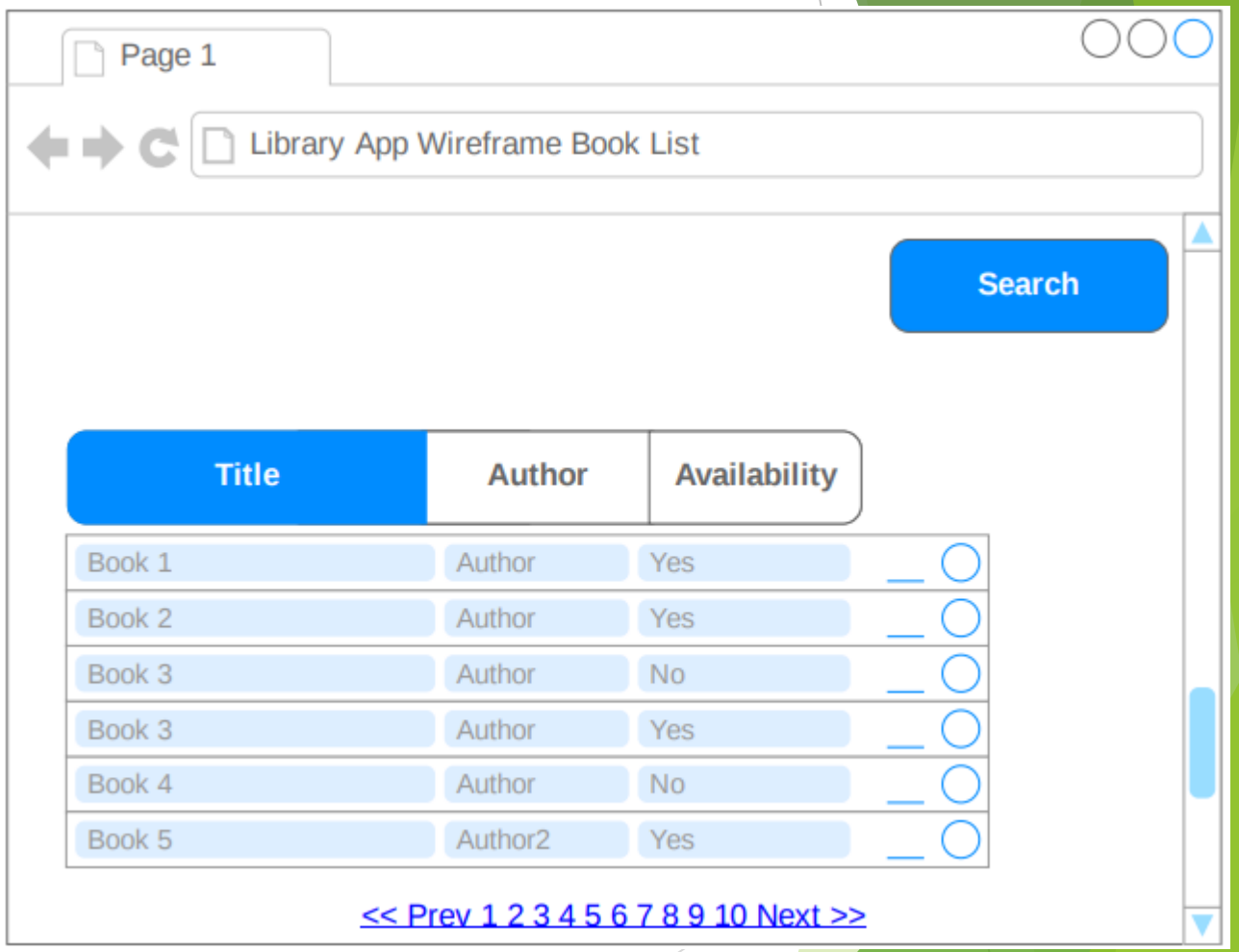
- The Design
  - Both Front End and Backend
- The Case Study
  - What Use Cases did we test?
- Conclusion
  - Our thoughts and Opinions
- Demonstration
- References

Design

- Front End
  - Built Upon the Angular Framework
    - Allowed for a quick and efficient frontend to be developed to allow for sufficient time to integrate the Back end of this project
- Back End
  - We have a fully functioning Create, Read, Update, Delete (CRUD) function service
  - All Data Model have validation Checks
  - Swagger integration
  - Currently running with a in-memory database (H2)

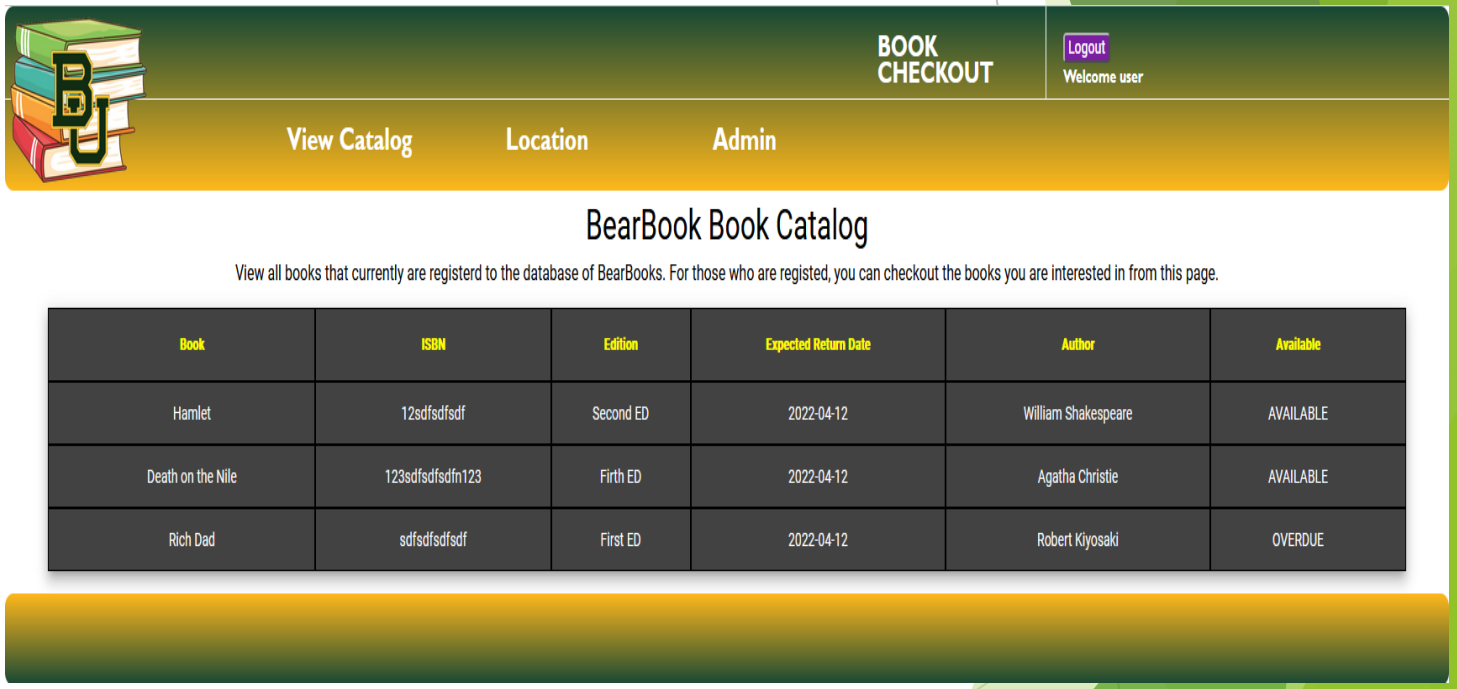
Front End Concept to …

The wireframe design was create to allow for an easy to create, more importantly an easily user friendly design.



… To Front End Reality

Ultimately, once we finished the front end design and integrated the backend functionality, we had a user friendly application.

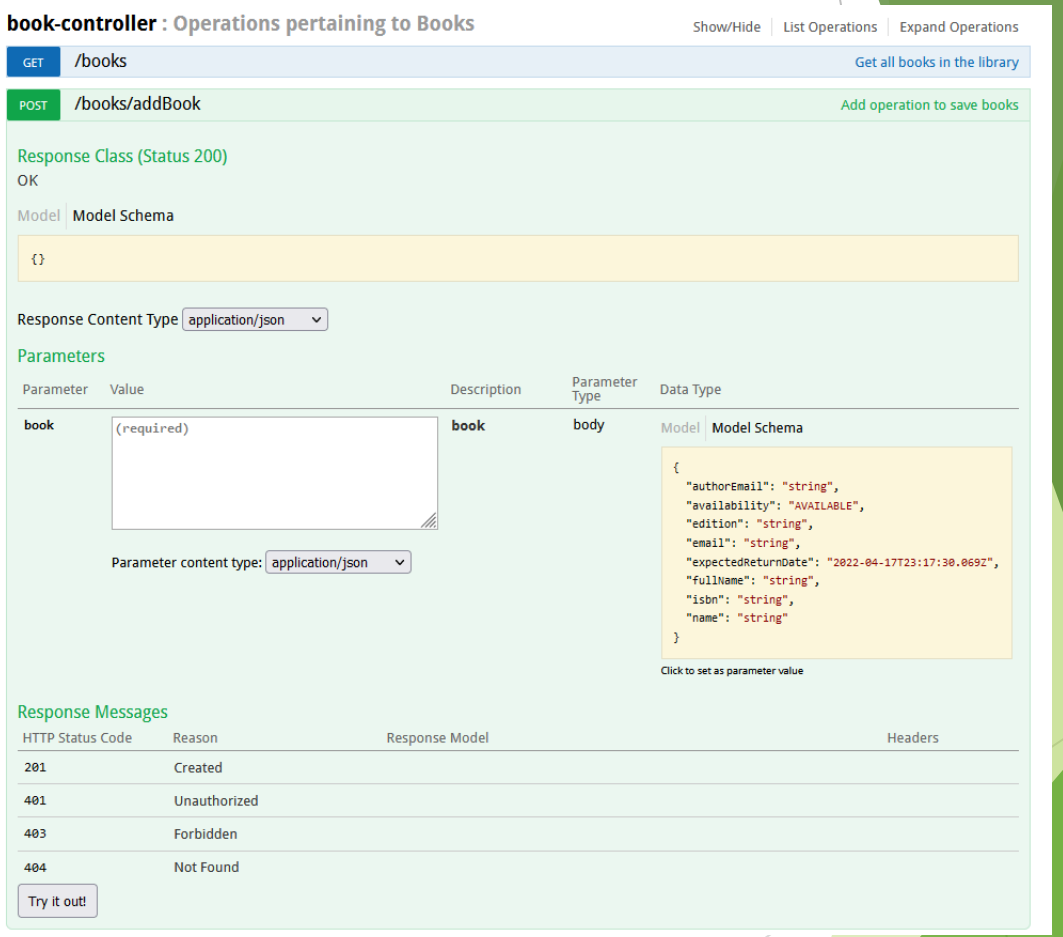


The Back End Basics …

We implemented CRUD functionality into are application to allow us to have the required functionality for our application.

… and Standardizing the Back End

We also implemented Swagger into our Back End. This allows for easier standardization and testing for our development team as we worked on this application.



Use Cases

- What we tested:
  - Registration
  - Login
  - Book Checkout
  - Adding a Book
  - Updating a Book
  - And Deleting a Book
- Video Demonstration
  - Can be found within our repository under the Use Cases Directory

Conclusion

- Successfully created and ran our Application
  - Dedicated Front and Back End to allow for easier upgrades in the future
  - Complete the milestones the team set out to attain

Video Demonstration

- Video Demonstration can be found under the Project Demonstration folder of the GitHub Repository
- This url will be posted in the Resources Slide

Resources

- Final Repository:
  - https://github.com/willissa2121/library_checkout_proj_3
- Angular Information:
  - https://angular.io/
- Swagger Information:
  - https://swagger.io/solutions/api-design/

Resources Cont.

- 2nd Repository:
  - https://github.com/willissa2121/library_checkout_proj_2
- 1st Repository:
  - https://github.com/willissa2121/library_checkout_proj