Lauren’s Library

BAE/QA API project

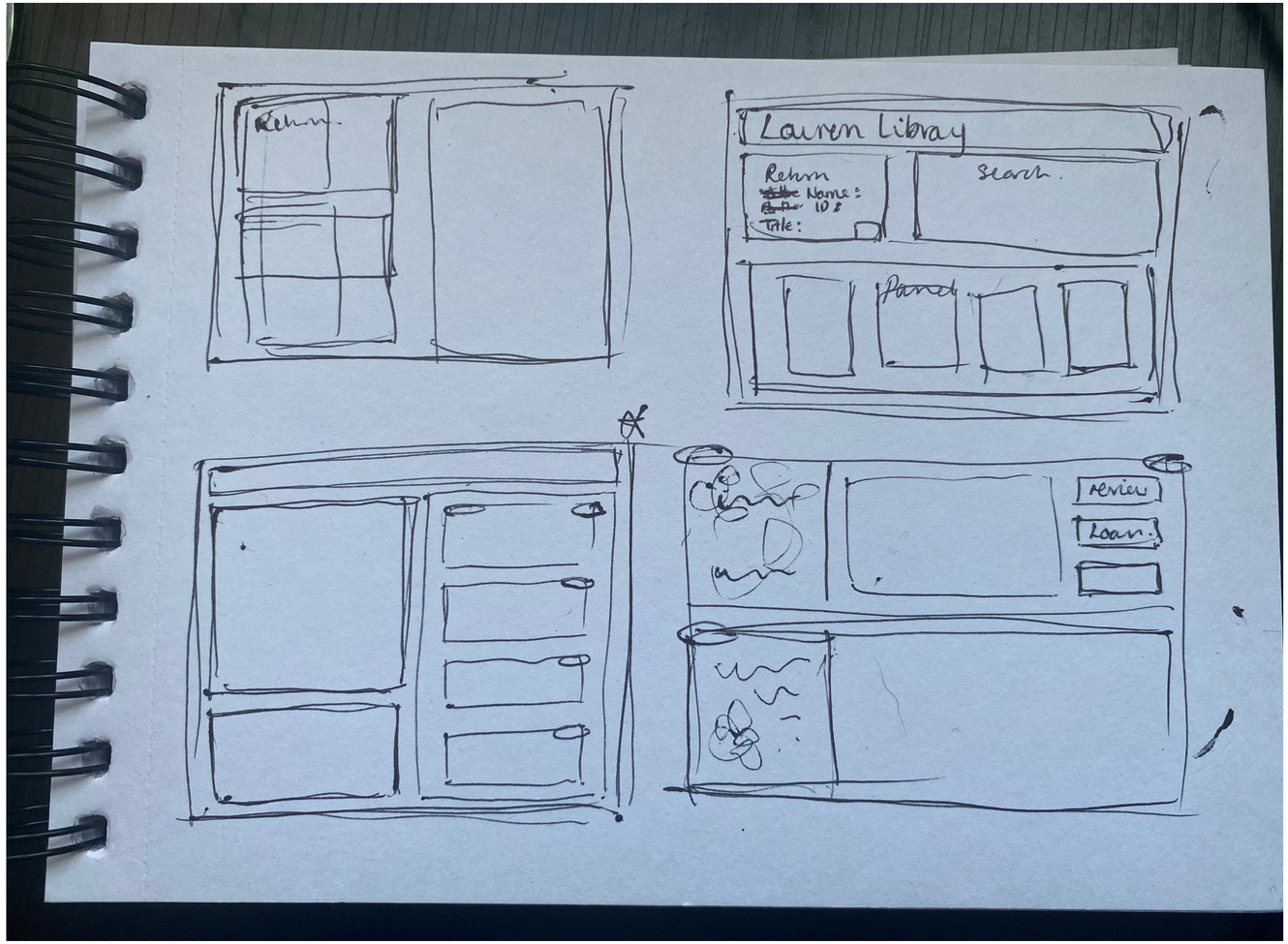
Lauren Garwood April 20220

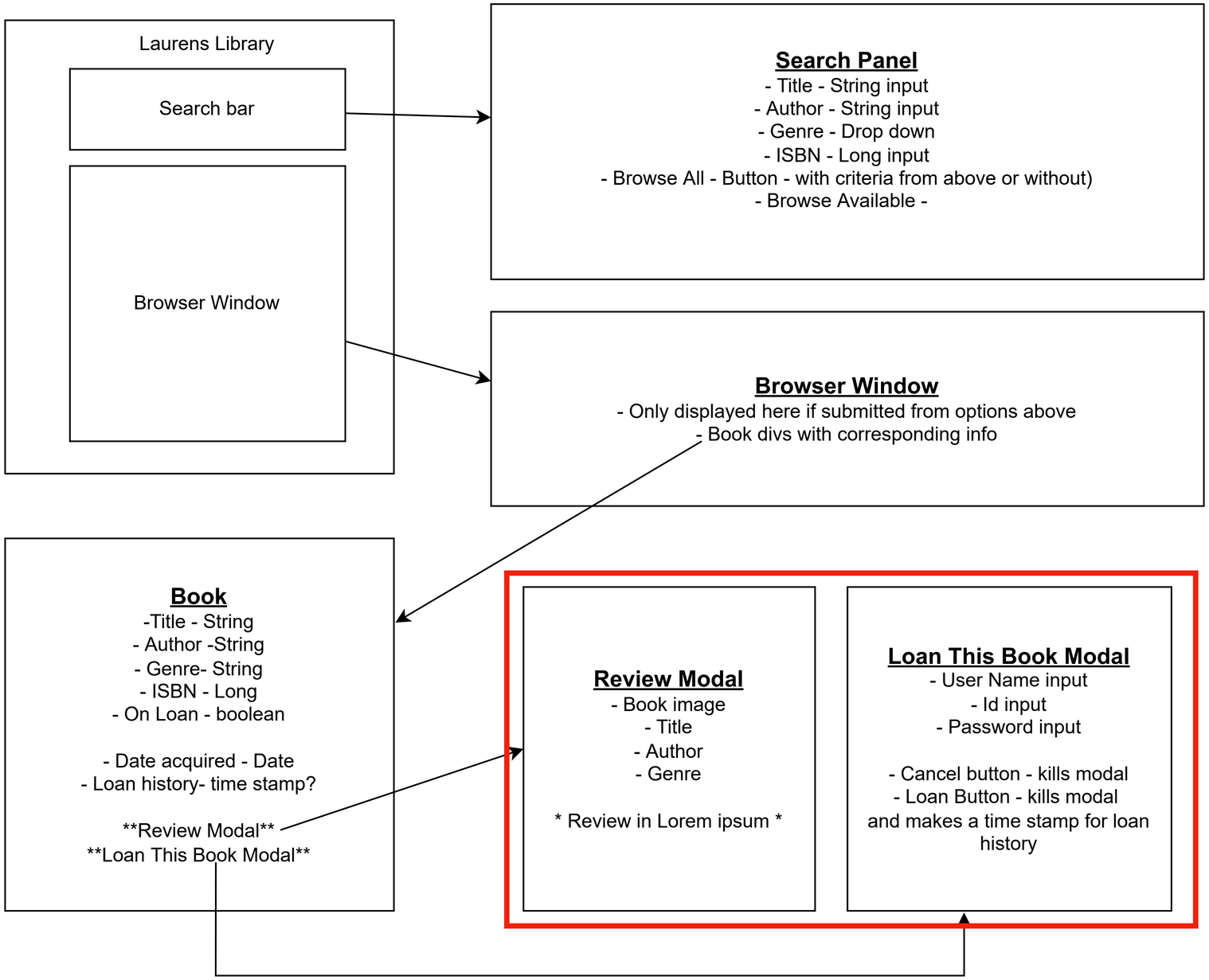
Design

- Library
- Create - Add a book
- Read - Search by Title, Author…
- Update - Update - loan/return
- Delete - Remove from library

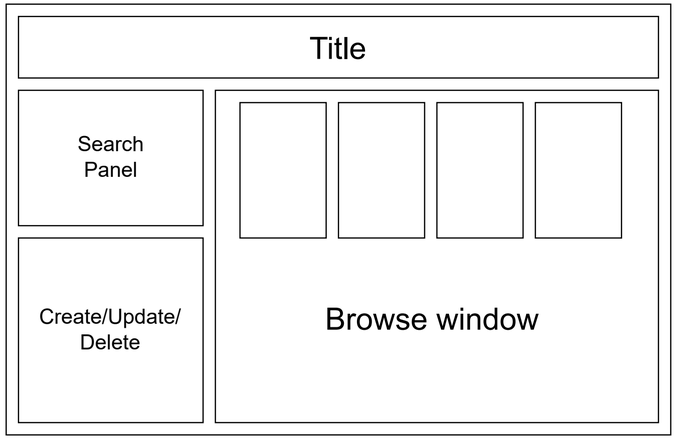
Plan

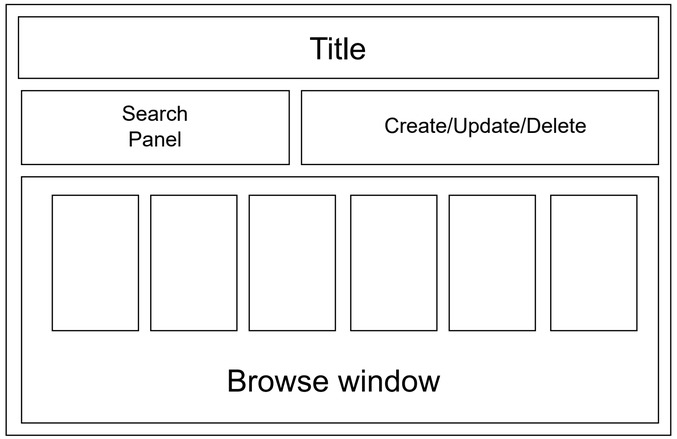
- Start with documentation
- Backend
- Testing
- Frontend
- Presentation & Hand-In

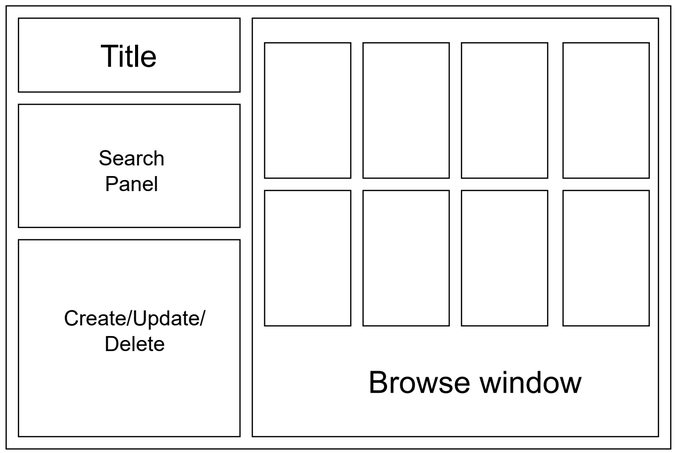


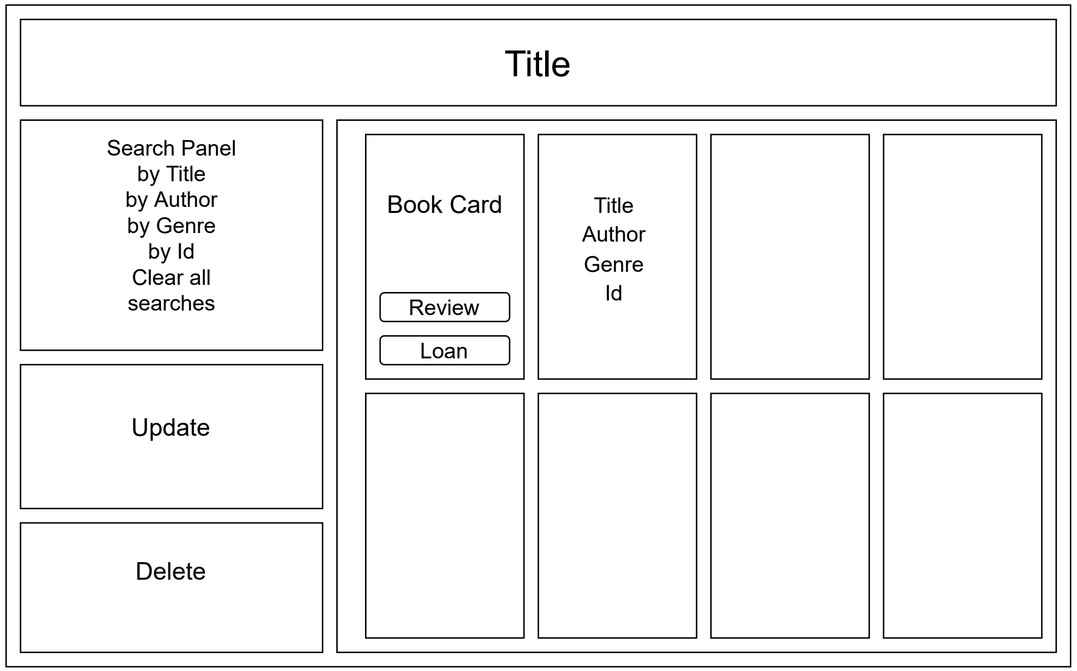

Laurens Library
Search bar
Browser Window
Search Panel
- Title - String input
- Author - String input
- Genre - Drop down
- ISBN - Long input
- Browse All - Button - with criteria from above or without)
- Browse Available -
Browser Window
- Only displayed here if submitted from options above
- Book divs with corresponding info
Book
-Title - String
- Author -String
- Genre- String
- ISBN - Long
- On Loan - boolean
- Date acquired - Date
- Loan history- time stamp?
Review Modal
Loan This Book Modal
Review Modal
- Book image
- Title
- Author
- Genre
* Review in Lorem ipsum *
Loan This Book Modal
- User Name input
- Id input
- Password input
- Cancel button - kills modal
- Loan Button - kills modal
and makes a time stamp for loan history

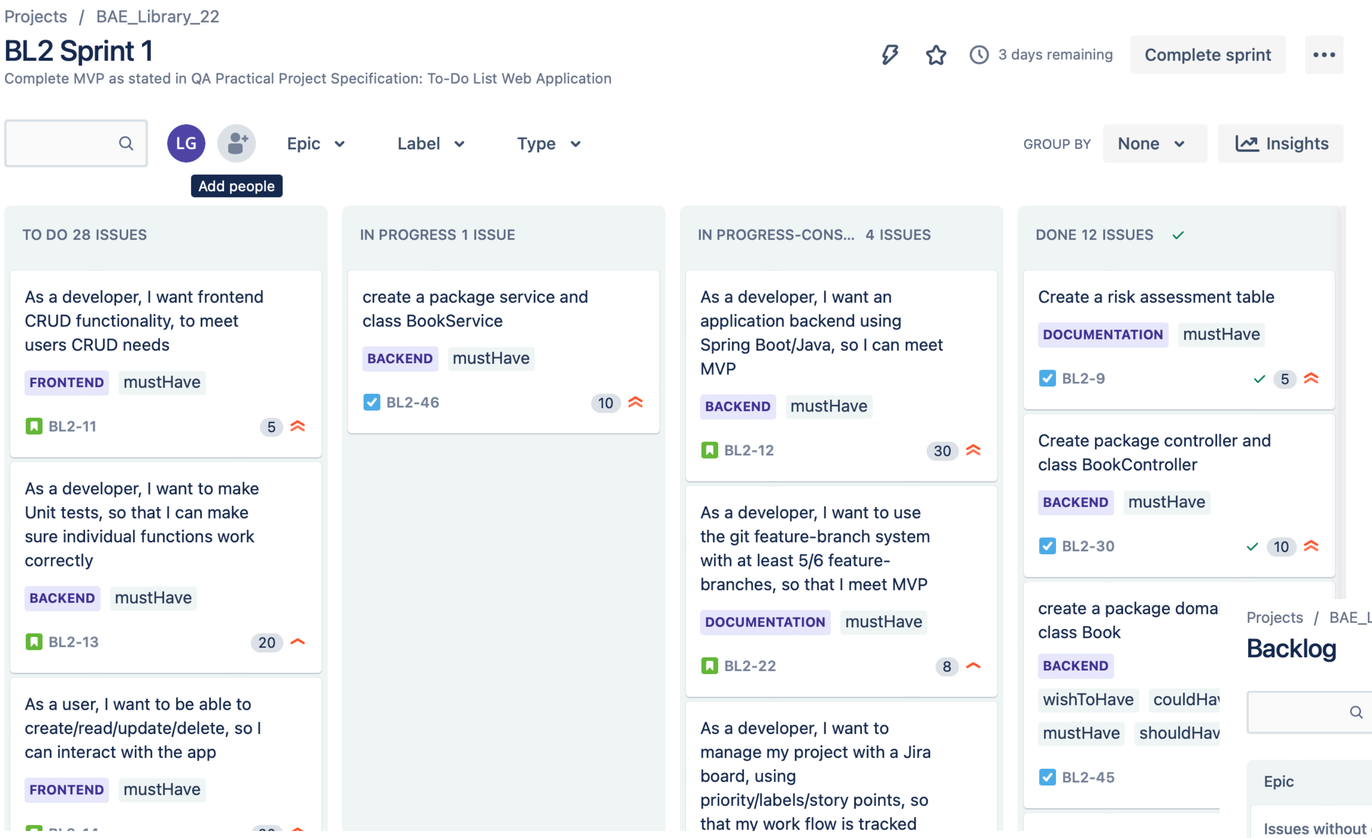
Chosen Design

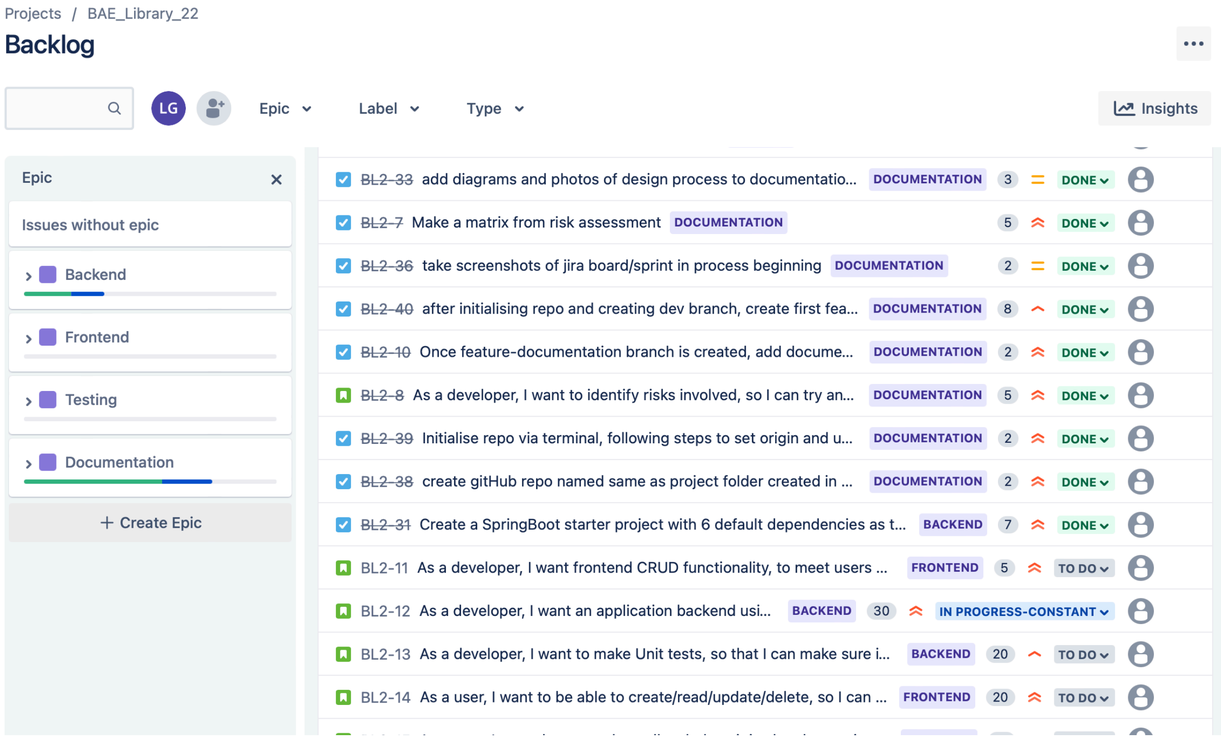












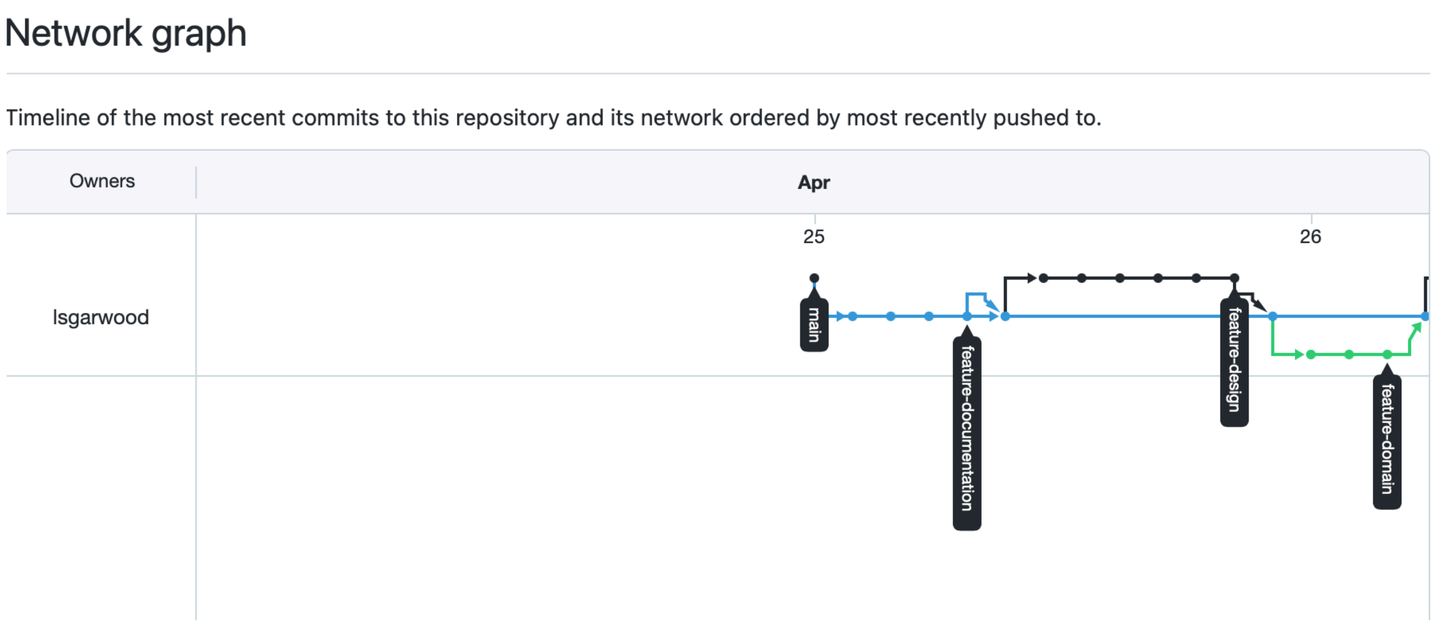
Kanban Board

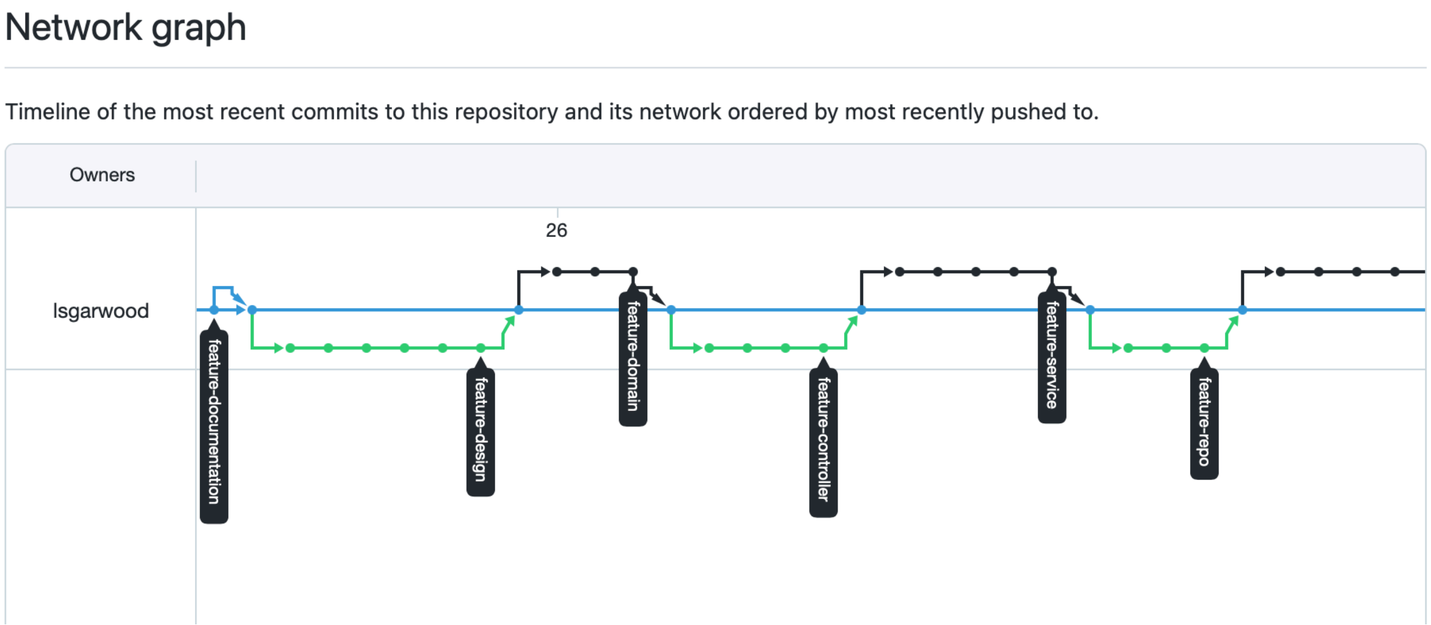
- Column for ongoing issues
- Column for more immediate tasks
- Overlapped on a few issues
- Used it successfully this time!

Git/GitHub

- **Version Control System**: Git
- **Source Code Management:** GitHub

- Feature branches
- Only had one issue midway with DS_Store file popping up and I hadn't added it to my .gitignore





Backend

- **Back-End Programming Language**: Java
- **API Development Platform**: Spring
- **IDE**: Eclipse

- More confident
- Went well
- Could have started this basic & built up
- Over compensated here as I was more comfortable with these steps - putting off my javascript
- Postman working well quite quickly

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
BAE_Library_22	51.9 %	669	620	1,289
src/main/java	60.8 %	265	171	436
com.qa.library	37.5 %	3	5	8
com.qa.library.controller	96.1 %	99	4	103
com.qa.library.domain	31.6 %	71	154	225
com.qa.library.exceptions	0.0 %	0	6	6
com.qa.library.service	97.9 %	92	2	94
src/test/java	47.4 %	404	449	853

SELECT * FROM BOOK;

ID	AUTHOR	GENRE	STATUS	TITLE
1	Willaim Golding	Fiction	Available	Lord Of The Flies
3	Lauren Garwood	Fiction	Available	How To Code
4	Lauren Garwood	Fiction	Available	How To Code1
5	Lauren Garwood	Fiction	Available	How To Code2
6	Lauren Garwood	Fiction	Available	How To Code3
7	Jane Austen	Fiction	Unavailable	Emma

(6 rows, 3 ms)

Edit

Runs: 11/11 Errors: 0 Failures: 0

BookControllerUnitTests [Runner: JUnit
- getByAvailableTest() (0.236 s)
- createBookTest() (0.042 s)
- checkOutTest() (0.010 s)
- getByIdTest() (0.010 s)
- getByAuthorTest() (0.039 s)
- getByGenreTest() (0.008 s)
- deleteBookTest() (0.007 s)
- getAllTest() (0.006 s)
- checkInTest() (0.010 s)
- deleteBookFailTest() (0.006 s)
- getByTitleTest() (0.008 s)

BAE_Library_22
- POST /books/create
- GET /books/getAll
- GET /books/getById/id
- GET /books/getByTitle/title
- GET /books/getByAuthor/author
- GET /books/getByGenre/genre
- GET /books/getByStatus/status
- PATCH /books/update/title
- PATCH /books/update/id
- DEL /books/delete/title
- DEL /books/delete/id

BAETest

BAE_Library_22 / /books/getAll

GET localhost:8080/books/getAll

Params Authorization Headers (6) Body Pre-

Query Params

KEY

Key

Body Cookies Headers (8) Test Results

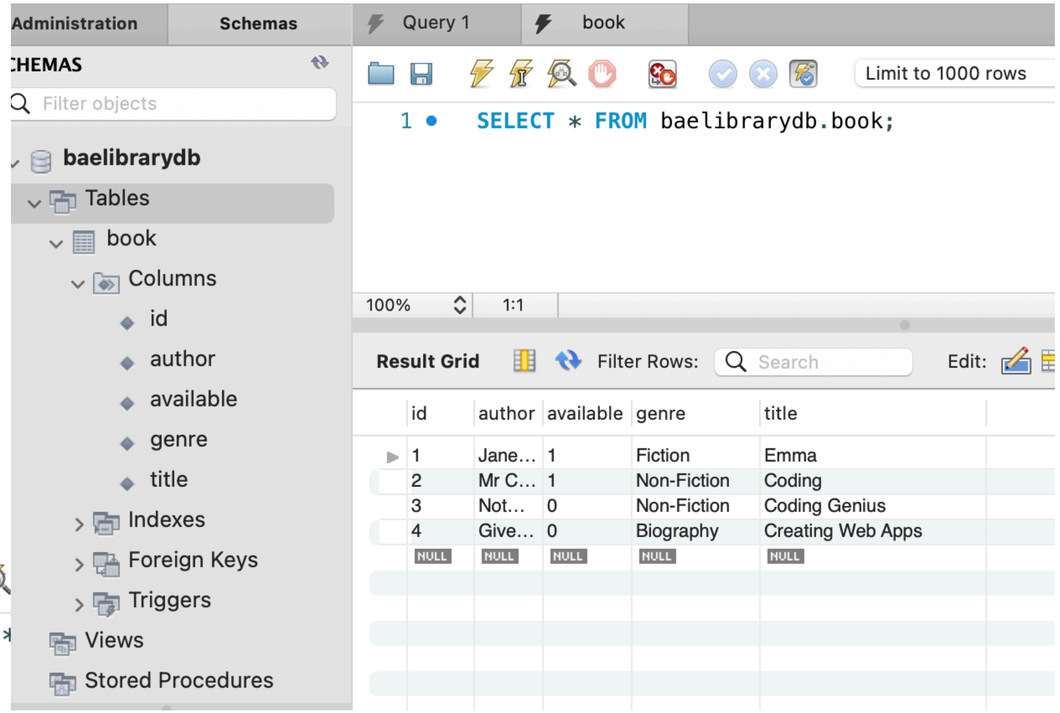
Pretty Raw Preview Visualize JSON

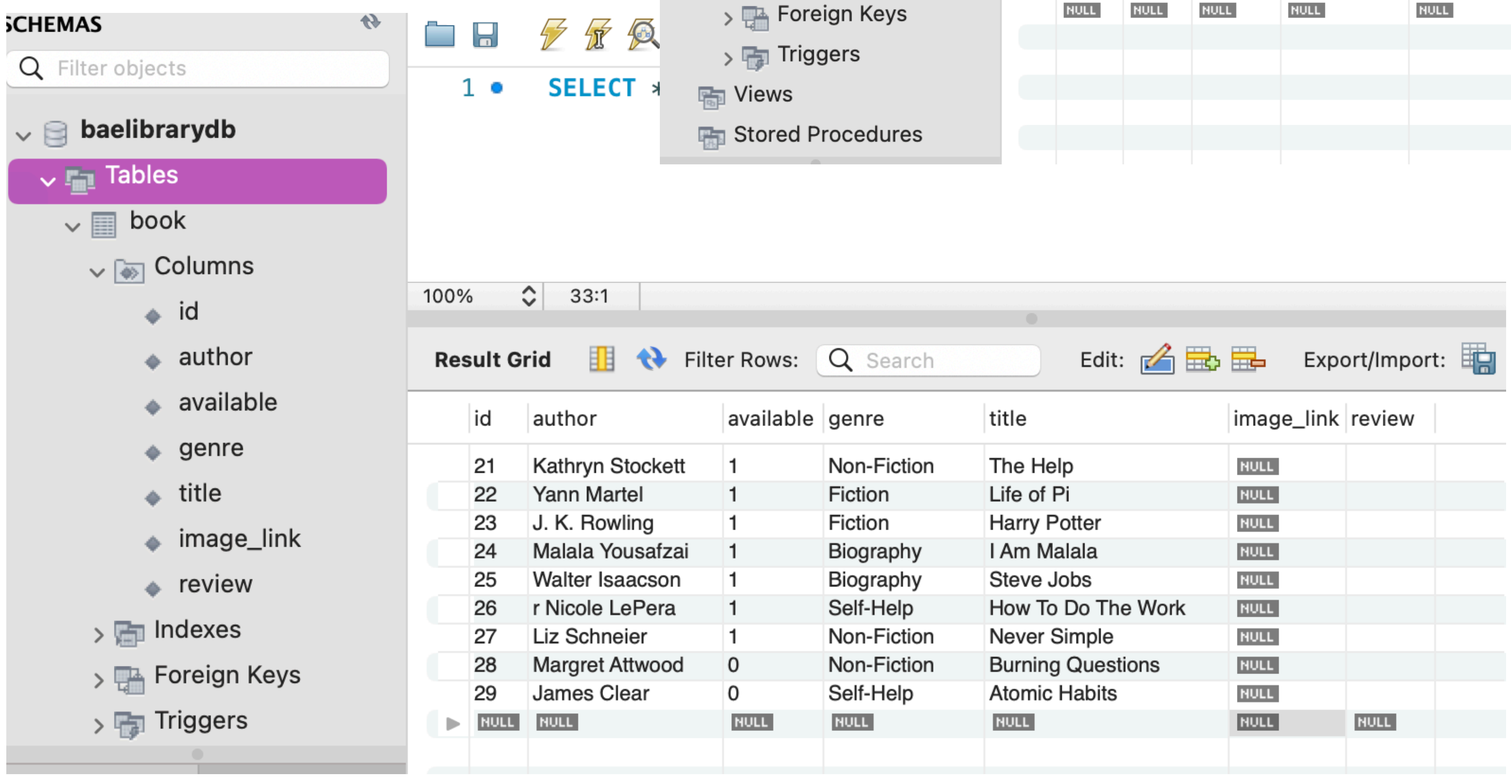

```
28        "title": "How To Code2",
29        "author": "Lauren Garwood",
30        "genre": "Fiction"
31    },
32    {
33        "id": 6,
34        "title": "How To Code3",
35        "author": "Lauren Garwood",
36        "genre": "Fiction"
37    },
38    {
39        "id": 7,
40        "title": "Emma",
41        "author": "Jane Austen",
42        "genre": "Fiction"
43    }
```

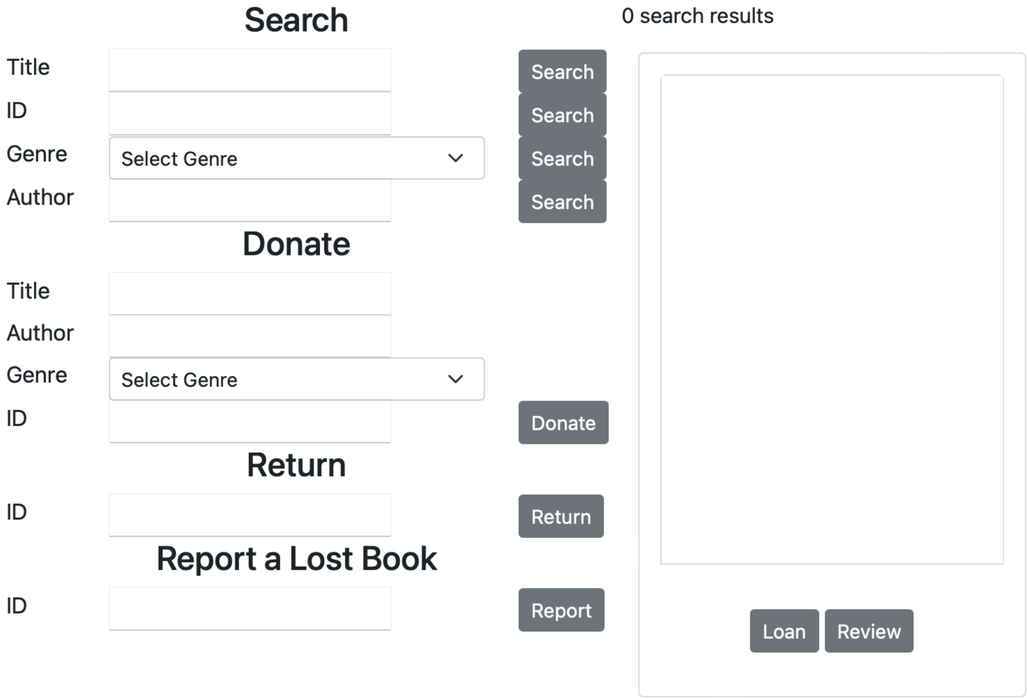
MySQL

- **Database Management System**: MySQL Server 8.0+

- Took some time get going - Test Schema syntax issues
- Wanted to add columns half way
- Changed columns half way
- Still not being used well



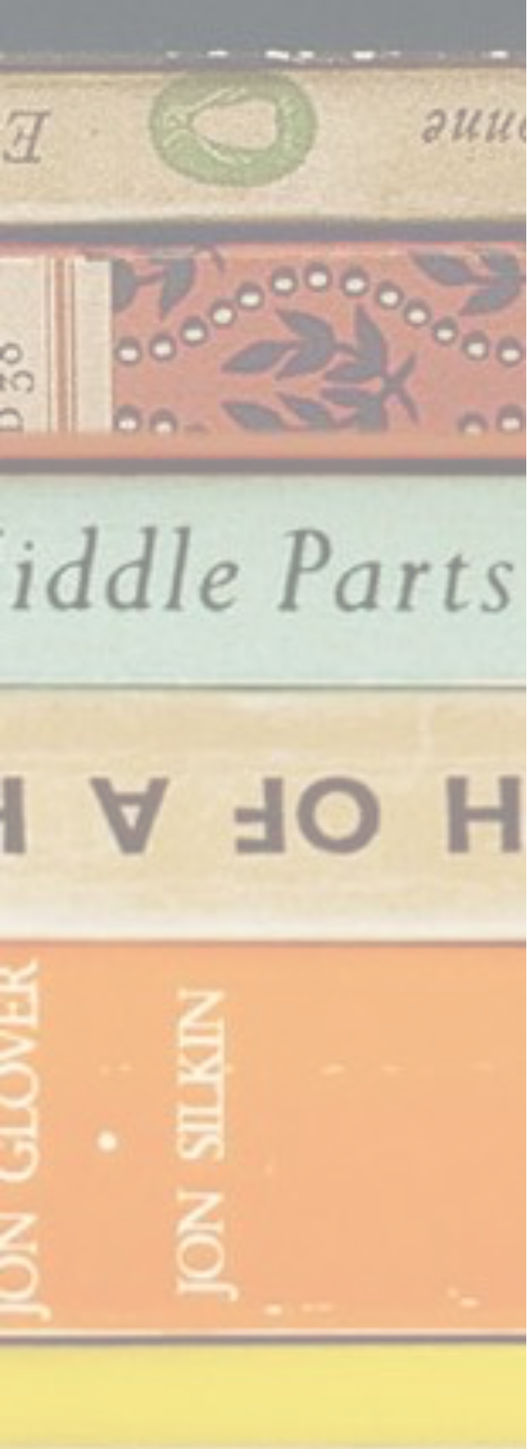




FrontEnd

- **Front-End Web Technologies:** HTML, CSS, JavaScript

- Started out with my HTML and CSS/Bootstrap
- Wish I had have equally worked through functionality
- Definitely neglected my JavaScript
- Needed to focus more on functionality first
- Made it extra complicated…for no reason!



Still to do

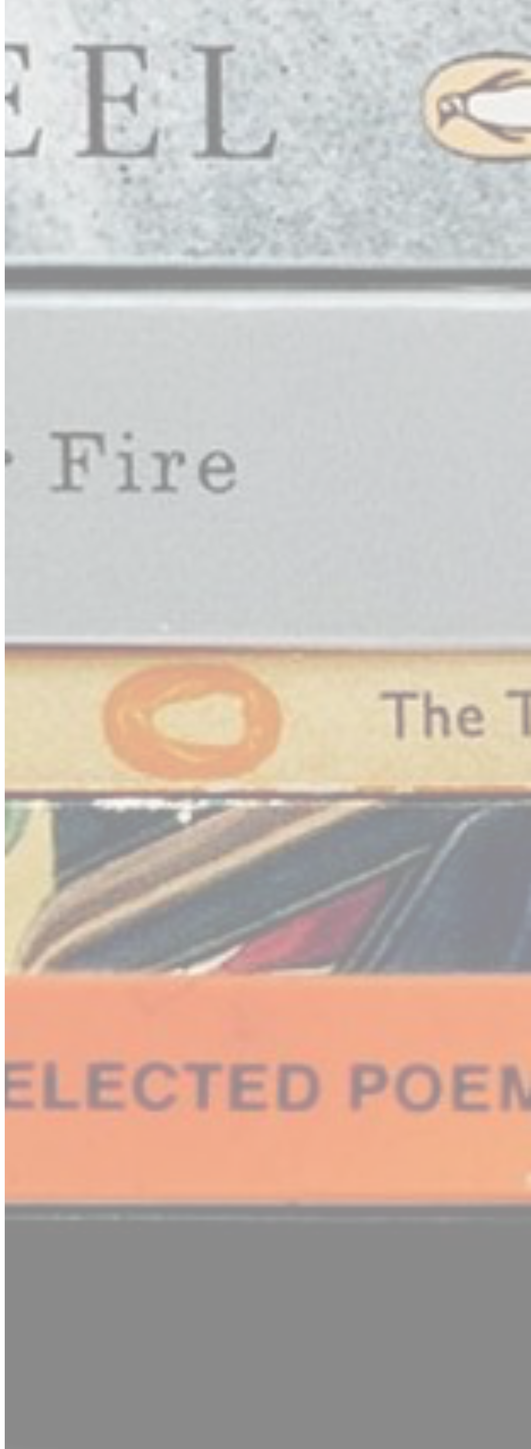
- Documentation
- README.md
- Maven build

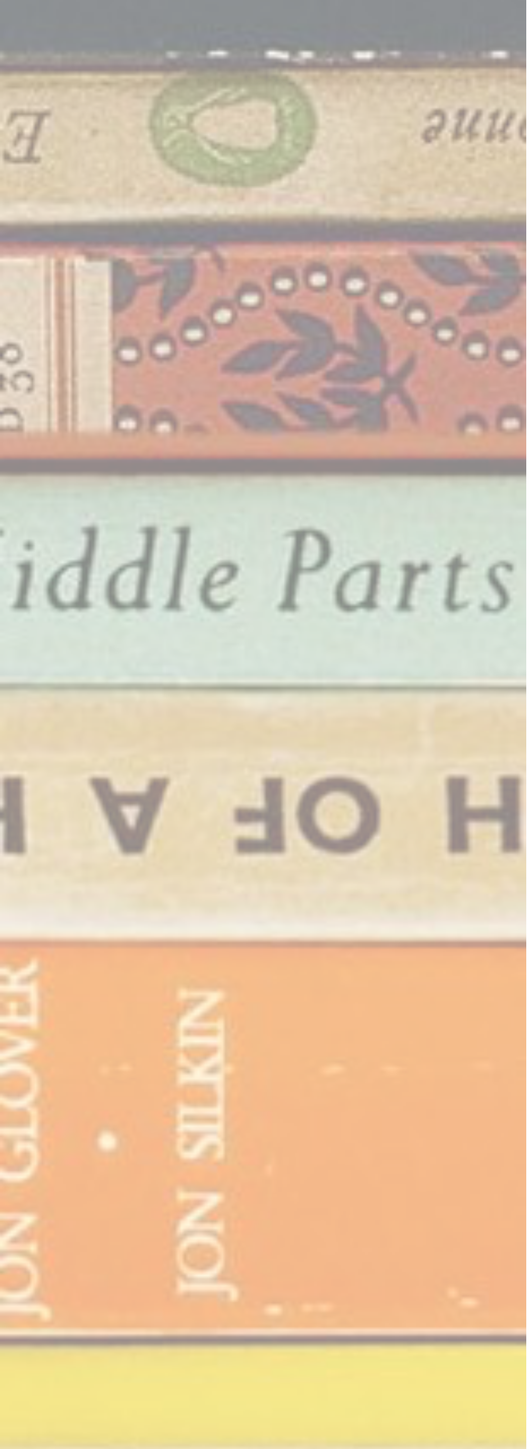
My Learning

- Order in which to do a project
- Try and focus more on the functionality
- All of front end: JavaScript, Axios, DOM manipulation, MySQL…..
- Jira board: story points and priorities and labels
- The way in which I learn: Struggle with documentation

Improvements

- Javascript!
- Ideas are great!…But I don’t have to do them ALL!
- Go MVP and then build it up




JON GLOVER
JON SILKIN
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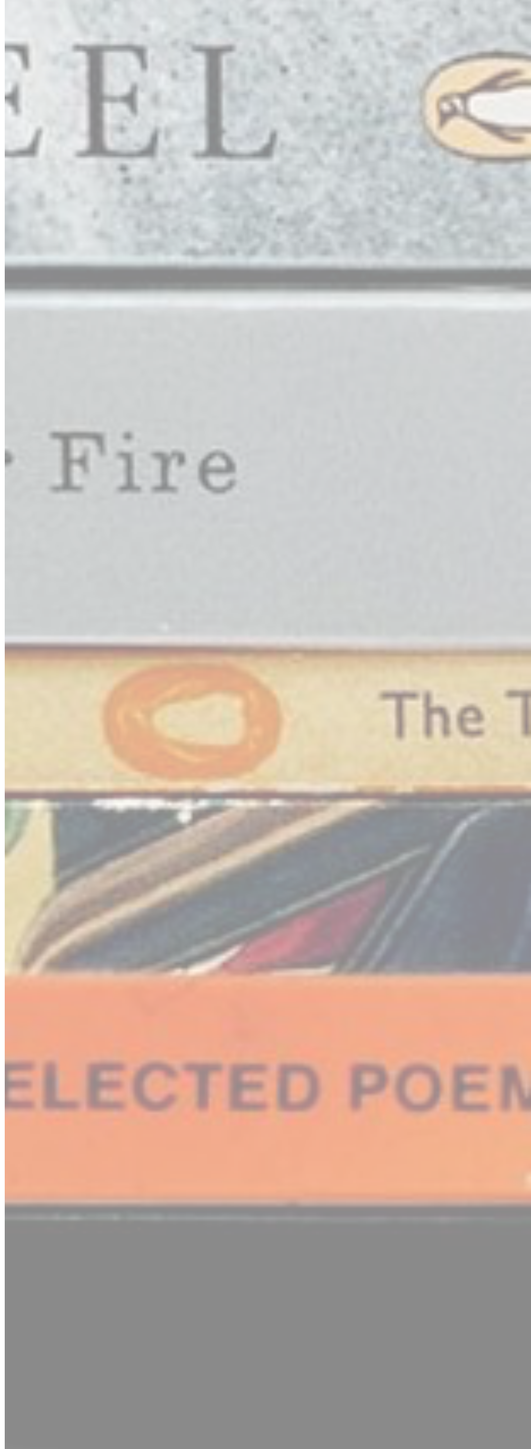
Demo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