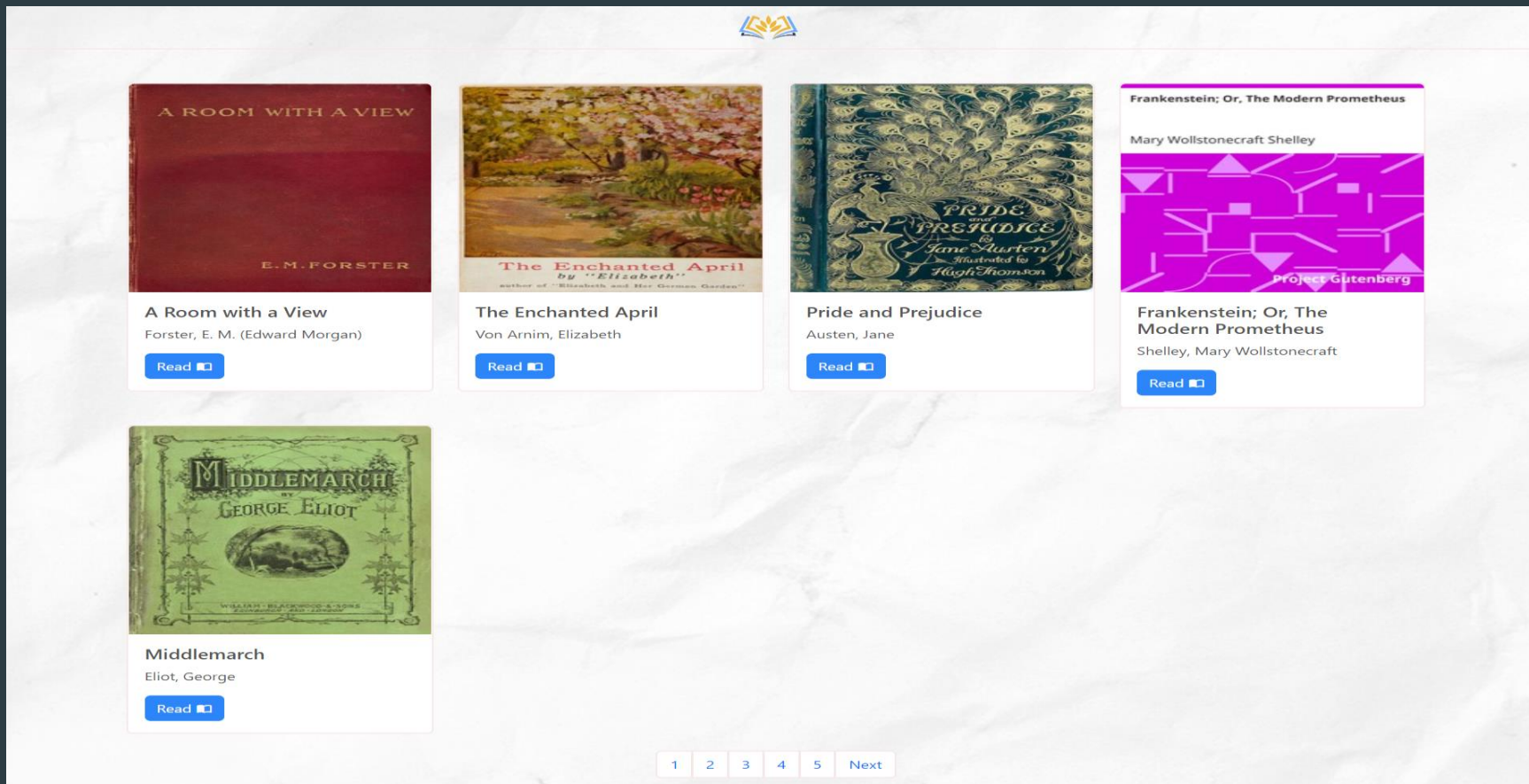


Bücherwurm Project

Small project

Project brief

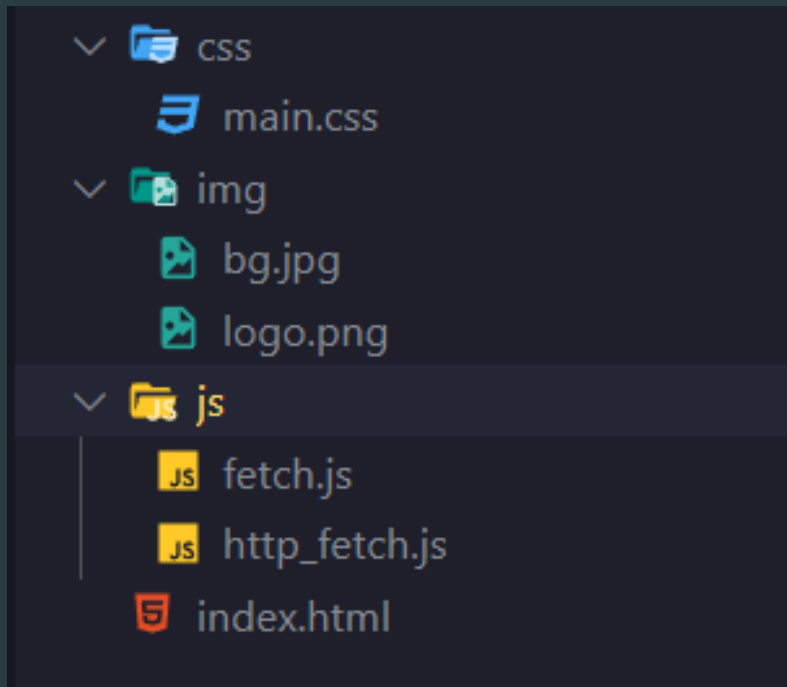
- In this small project, I used the Gutenberg ebook API where I show the books by title, image, author, and the ability to read them.



Programming language and Framework used in the project



Projects files



- ▶ I made this project using two methods
- ▶ Method 1: http_fetch.js
- ▶ Method 2: fetch.js

Method 1

```
const getBooks = (callback) =>{
  var request = new XMLHttpRequest();

  request.addEventListener('readystatechange', () => {

    if (request.readyState === 4 && request.status === 200) {

      callback(undefined, request);
    }
    else if (request.readyState === 4)
    {
      callback("error getting Data", undefined);
    }
  });

  request.open("GET", "https://gutendex.com/books/");
  request.send();
}
```

- ▶ In first method I used object `XMLHttpRequest()` that allow to make HTTP requests.
- ▶ then I used `request.open()` to specify the type of request and URL.
- ▶ Then I used `request.readyState` to check if the operation is done
- ▶ also I used `request.statuts` to check of request success

Callback

```
getBooks(callback = (error, data)=>{  
  if(error)  
  {  
    console.log(error);  
  }  
  else  
  {  
    setupPagination(data.responseText);  
  }  
});
```

- ▶ In this example, I used with a callback function to handle the errors and data.
- ▶ A **Callback** function is effective to make async that waits until another function completes and returns with data. However, the dark side of the callback function can cause with what noun **callback** hell especially when we have consecutive asynchronous requests.

Method 2

```
//this function return promise  
const getBooks = async () =>{  
  
//in this line we wait until we receive the  
response  
    const response = await fetch("  
https://gutendex.com/books");  
    const data = await response.json();  
  
    return data;  
}
```

- ▶ Fetch is similar to XMLHttpRequest
fetch we write less code than XMLHttpRequest
- ▶ Fetch return a promise which
makes handling success and error
better the than callback
- ▶ The await keyword is used in an
async function to ensure that all
promises returned.

Thank you
For you Attention