**USER STORIES**

1. **STUDENT**
2. **Borrowing a book to read.**
3. The student logs into the system and a table of books is displayed.
   * The login page is brought up, and the student’s details are fed into the form.
   * The password and username are captured from the form, and authenticated.
   * If the authentication process is passed, then the student is logged in and redirected to the index page.
4. He or She clicks the book row and is taken to the borrow confirmation page.
   * The corresponding book ID is captured and used to get the respective book.
   * That book’s title and author are displayed in the borrow confirmation page.
5. The borrow button is clicked to confirm, and the details of the borrower and borrowed book are recorded.
   * The book ID is used to fetch the book record from the database and it’s availability state is negated in the book database.
   * The borrowed date, the student’s full name, the book ID and the return state are generated and posted to the database of borrowed books.

d. The student goes to the Library to pick up the book with their institutional ID for verification of identity.

1. The book is then given to the student.
2. **Returning a book.**
3. The student returns the book to the librarian.
4. The librarian checks for any fines.
5. If there are any fines, the student pays cash to the librarian and receives a message for confirmation of payment in their notifications section.
6. A confirmation message reviewed in the notifications section is sent to the student about their successful return of the book.

**Librarian user story**

1. **Adding a book**

2**.Removing a book**

1. Can change or take out details of the book.

-The librarian clicks on the books table

-Checks the book to be deleted

-Runs the delete action

1. Can mark borrowed books that have been collected.

-The librarian clicks on the borrowed books table

-Selects the book and marks it as borrowed

-The details are then saved

a. The librarian logs into the system

b. Should be able to add book details.

-The librarian then clicks the add button besides the books table.

-He then fills in the details of the book in their respective fields.

-The details are then saved.

3.**Viewing report details**

1. Should receive a report from the system when a book has been borrowed.

-The librarian clicks on the report from the admin page.

**CHALLENGES FACED AND HOW WE OVERCAME THEM.**

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| --- | --- |
| **Challenges** | **Solutions** |
| Deploying the app wasn’t easy | We used the Heroku documentation to deploy using GitHub which was much easier than using the CLI. |
| Implementing designs to the project was difficult because we weren’t familiar with CSS programming | -We used bootstrap which implemented most of the designs on the app  -We also added to our knowledge of CSS using W3schools and Tutorialspoint. |
| There were errors we weren’t familiar with | We researched and used the website “stack overflow” which shows most errors faced by many programmers as well as their solutions |
| Not knowing where to begin the work because it was a lot | We used pair programming which made the work easier by giving each pair their own branch to work with while pushing code |