Project Backlog

# Epic

As an investor, I want to open an online library, so I can allow readers to borrow books.

## User Stories

### **As a library admin, I want to login into the online library, so I can manage the books supply.**

#### Definition of done

1. The admin is able to add books.
2. The admin is able to change a book (e.g. title due to a typo, number of available books).
3. The admin is able to remove book(s).
4. The admin is able to add, edit and remove user(s).
5. The admin is able to manage the due books.

#### Test cases

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Expected results | Actual results | Status |
| The admin opens the library web page. | The page is properly loaded and provides the login panel. |  | OK |
| The admin tries to log into the library, with a wrong password. | The admin login attempt is rejected, with “The password you entered was not valid.” |  | OK |
| The admin provides the correct credentials. | The admin is logged in and he/she is redirected to the administration page.  The welcome message displays the current date/time and it’s updating real time. | The admin is logged, but the welcome message doesn’t display the date and the time is not taking into account the daylight saving. | KO |

#### Incidents

Incident report: LIB-1

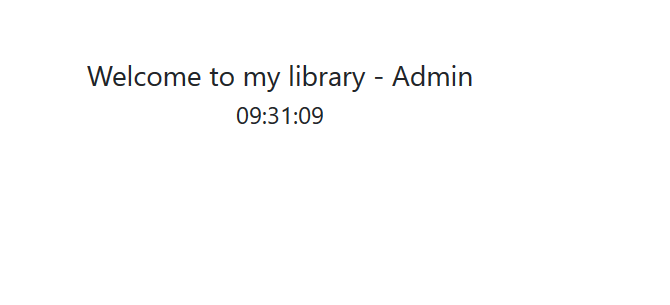
Steps to reproduce:

1. The admin logs into the library.
2. It checks the accuracy of the info, so it can handle the due books.

Expected results: The welcome page is providing the current date/time in the local format.

Actual results: The date is not displayed, and the provided time is not considering the daylight saving. Also, the provided value is not changing in real time.

See the attached screen shot and logs.



|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Expected results | Actual results | Status |
| The admin is going to Books management and chooses to add a new one. | The add book form is provided. |  | OK |
| The admin starts to fill in the required info. | The provided fields are allowing only valid values. | It is allowed to enter negative values for the edition and copies.  It is not allowed to add ISBN codes, but only plain numbers.  A drop-down should be provided to able to choose the year value. | KO |

Incident report: LIB-2

Steps to reproduce:

1. The admin logs into the library.
2. It chooses to add a new book, as a new item arrived.
3. ­It tries to enter a valid ISBN for the book.

Expected results: The ISBN value is allowed.

Actual results: Only plain numbers are allowed.

See the attached screen-shot.

### **As a user, I can borrow books from the library.**

#### **Definition of done**

1. The user is able to borrow books for a one-month timeframe.
2. The user is able to search for the available books.
3. The user is able to check its due books.
4. Once a user borrows a book, the available supply is decreased accordingly.

#### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Expected results | Actual results | Status |
| The user opens the library web page. | The page is properly loaded and provides the login panel. |  | OK |
| The user tries to log into the library, with a wrong password. | The user login attempt is rejected, with “The password you entered was not valid.” |  | OK |
| The user provides the correct credentials. | The user is logged in and he/she is redirected to the welcome page. |  | OK |

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Expected results | Actual results | Status |
| The user chooses to search for a given book. | “Search book” button is redirecting to the search form. |  | OK |
| The user enters a Title search criterion, for an available book (we know that, in a testing environment). | The book that matches the search, is listed. |  | OK |
| The user chooses to borrow the book. | The book is borrowed for one month. |  | OK |
| The user chooses to navigate through all books and enters an empty criterion. | All available books are provided. |  | OK |
| The user chooses to search again for the borrowed book. Now it uses an Author criterion. | The book is listed, but it should not be again available for the same user and a proper message should be displayed. | The user is able to press borrow button again. Even though a message is provided also technical info is displayed. | KO |

#### Incidents

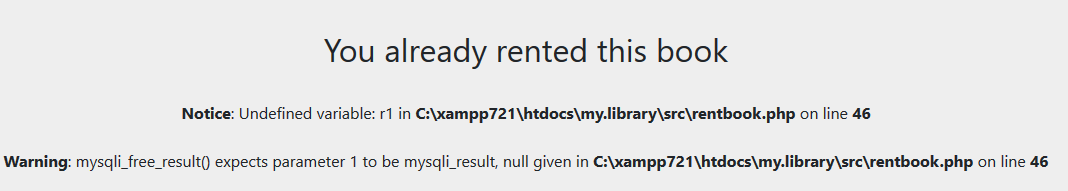
Incident report: LIB-3

Steps to reproduce:

1. The user borrows a book.
2. The user is trying to borrow again the same book.

Expected results: The borrow button should be deactivated or a proper (non-technical) message should be displayed.

Actual result: Some unexpected technical details are provided. See the screen shot.



## **As an admin, I want my online library to be secure and resilient to high load.**

### Definition of done

1. The data stored by this site is not exposed.
2. The site is DDos proof.
3. A captcha is provided for a user registration, so we avoid robot’s intrusions.

### Test cases

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Expected results | Actual results | Status |
| The user opens the library web page. | The page is properly loaded and provides the login panel.  A captcha is provided, so we can avoid robot’s intrusions. | No captcha provided. | KO |

#### Incidents

Incident report: LIB-4

1. A user or admin opens the library web page, without being logged in.

Expected results: A captcha is required, so we avoid automated login tools.

Actual results: No captcha provided.

# HIGH LEVEL TEST PLANNING

## Test Cases management

* Using Spira tool (<https://www.inflectra.com/SpiraTest/>)

## Bug tracking

* Jira (<https://www.atlassian.com/software/jira>)

## Version control system

* Git (<https://git-scm.com/>)
* Github (<https://github.com/>)

## Manual testing

* It will be covered mainly by the QA Engineer(s), at each user story level
* Only in exceptional cases, developers might help
* Some part of the regression and integration testing, which cannot be automated

## Automated testing

* Using Cypress tool (<https://www.cypress.io/>)
* Used mainly for Continuous Integration and where it doesn’t require too much maintenance effort – this will be evaluated at each user story level

## Security testing

* The minimal requirement is to use a captcha for user’s registration and login form
* To be documented

## Performance testing

* Using Locust tool (<https://locust.io/>)