**BookXchange**

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**Functional Requirements:**

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| Backlog ID | Functional Requirements |
| 1 | As a user, I would like to have a website GUI to browse books for sale   * 1.1 Render website, Severity = 1   + Expected input:     - User enters URL   + Expected output:     - Page HTML renders in user’s browser |
| 2 | As a user, I would like to be able to view each book on its own page with information and a picture of the book   * 2.1 Access book page without being logged in, Severity = 1   + Expected input:     - From main page, user clicks view button for a book   + Expected output:     - Book page is rendered without add to cart link * 2.2 Access book page while logged in, Severity = 1   + Expected input:     - From main page as a logged in user, user clicks view button for a book   + Expected output:     - Book page is rendered with add to cart link * 2.3 Book page is rendered correctly, Severity = 1   + Expected input:     - From main page, user clicks view button for a book   + Expected output:     - Page shows cover, title, author, publish date, price, availability |
| 3 | As a user, I would like to be able to create an account that stores my information   * 3.1 Create an account, Severity = 1   + Expected input:     - From the main page, user clicks create an account button     - On create account page, user enters email and password     - User clicks submit   + Expected output:     - New user is created * 3.2 Create account with email that already exists, Severity = 2   + Expected input:     - From the main page, user clicks create an account button     - On create account page, user enters email that already exists and password     - User clicks submit   + Expected output:     - Error will be shown and user is redirected to a blank create account page * 3.3 Validate create account inputs, Severity = 1   + Expected input:     - From the user create page, user inputs invalid email or password     - User clicks submit   + Expected output:     - Error will be shown and user is redirected to blank create account page |
| 4 | As a user, I would like to be able to log into my account   * 4.1 Log into an account, Severity = 1   + Expected input:     - From the main page, user clicks login     - User enters login information     - User clicks login   + Expected output:     - Render main page with books displayed * 4.2 Log into account with invalid username, Severity = 1   + Expected input:     - From the main page, user clicks login     - User enters invalid login information     - User clicks login   + Expected output:     - Display error message and render blank login page * 4.3 Log into account with invalid password, Severity = 1   + Expected input:     - From the main page, user clicks login     - User enters invalid login information     - User clicks login   + Expected output:     - Display error message and render blank login page |
| 5 | As a user, I would like to be able to post books for sale   * 5.1 Post book for sale, Severity = 1   + Expected input:     - From the account page, user clicks add book to account     - Enter ISBN number     - Click add to account for sale   + Expected output:     - Render account page displaying newest book first * 5.2 Post invalid book for sale, Severity = 1   + Expected input:     - From the account page, user clicks add ISBN to account     - Enter ISBN number     - Click add to account for sale   + Expected output:     - Display error message and render blank add book page |
| 6 | As a user, I would like to be able to view a list of books for sale   * 6.1 View books for sale, Severity = 1   + Expected input:     - User goes to the website and renders main page   + Expected output:     - List of all books is displayed |
| 7 | As a user, I would like to be able to purchase books from the cart   * 7.1 Purchase books from cart, Severity = 1   + Expected input:     - From the cart screen as a logged in user, user clicks purchase button     - User enters payment information     - User clicks purchase     - User checks their email   + Expected output:     - User has a confirmation email with purchase number and amount * 7.2 Purchase books from empty cart, Severity = 1   + Expected input:     - From the cart screen as a logged in user, user clicks purchase button   + Expected output:     - Display error message and render cart screen |

**Non-Functional Requirements:**

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| Backlog ID | Non-Functional Requirements |
| 8 | As a user, I would like to have a confirmation email for my purchases   * 8.1 Purchase books and check email, Severity = 3   + Expected input:     - User clicks purchase from the cart screen as a logged in user     - User enters payment information     - User clicks purchase     - User checks their email   + Expected output:     - User has a confirmation email with purchase number and amount |
| 9 | As an admin, I would like to be able to pull book information automatically using the ISBN number   * 9.1 Verify add book, Severity = 2   + Expected input:     - From the main page, admin goes to a create page dialogue     - Admin enters a valid ISBN number   + Expected output:     - Book with corresponding ISBN number is added to database containing all books. * 9.2 Verify ISBN number, Severity = 3   + Expected input:     - From the main page, admin goes to a create page dialogue     - Admin enters a valid ISBN number that is invalid   + Expected output:     - Admin receives an error saying that the given ISBN number is invalid |
| 10 | As a user, I would like to be able to search for a book by ISBN number   * 10.1 Search a book by ISBN number, Severity = 2   + Expected input:     - From the main page, user enters ISBN number     - User clicks search   + Expected output:     - Display all books with the same ISBN number (blank if no matches) |
| 11 | As a user, I would like to be able to search for books by subject   * 11.1 Search for books by subject, Severity = 3   + Expected input:     - From the main page, user selects subjects     - User clicks search   + Expected output:     - Display all books by the same subject (blank if no matches) |
| 12 | As a user, I would like to be able to sort the list of books by different fields   * 12.1 Books can be sorted by characteristics, Severity = 2   + Expected input:     - User goes to the list of all available books     - User click on a sort link   + Expected output:     - List of books is rendered and sorted by kind of sort selected. |
| 13 | As a user, I would like to be able to recover my password if I forget it   * 13.1 Recover user’s password, Severity = 2   + Expected input:     - From the main page, user clicks forgot password button     - User enters user email     - User clicks confirm button   + Expected output:     - Send an email to user’s email with a link to password reset page |
| 14 | As a user, I would like to be able to add multiple items to my cart to purchase all at once   * 14.1 Can add single book to cart, Severity = 2   + Expected input:     - User views a book page     - User clicks “add to cart” link     - User goes to cart page     - User clicks purchase   + Expected output:     - Cart page displays one book in cart     - All of cart is purchased (1 book) * 14.2 Can add multiple books to cart, Severity = 2   + Expected input:     - User views a book page     - User clicks “add to cart” link     - User repeats previous n times     - User clicks on cart link     - User can see multiple books in cart     - User clicks purchase   + Expected output:     - Cart page displays all n books user selected     - All of cart is purchased (n books) |
| 15 | As a user, I would like to be able to clear items from my cart   * 15.1 Clear items in cart, Severity = 2   + Expected input:     - From the cart screen as a logged in user, user clicks clear button   + Expected output:     - All Items in cart are removed     - Empty cart page is displayed |
| 16 | As a user, I would like to be able edit my account settings   * 16.1 Edit user’s account, Severity = 2   + Expected input:     - From the account page, a logged in user clicks edit button   + Expected output:     - The account information becomes editable |
| 17 | As a user, I would like to be able to email other users about the product they are selling   * 17.1 Email other user, Severity = 2   + Expected input:     - A logged in user goes to another user’s page     - User clicks on email ink   + Expected output:     - User page is rendered     - User’s email is shown     - User’s email is opened * 17.2 Email is not public, Severity = 3   + Expected input:     - A non-logged in user goes to another user’s page   + Expected output:     - User page is rendered     - User’s email is not shown |