

## Acceptance Criteria – BookHive

### 1. Login Page

Welcome Back

Sign in to access your BookHive account

I am a:

Student

Email Address

student@school.edu

Password

Enter your password

Sign In as Student

Forgot Password?

Create Account

- a. The login form must display fields for **username/email** and **password** immediately after the page loads.
- b. A **role selector** must be available for choosing Student or Librarian.
- c. Clicking “Login” must redirect users to:
  - **Student Dashboard** if role = Student
  - **Librarian Dashboard** if role = Librarian
- d. Clicking “Forgot Password” must open a password recovery modal.
- e. Clicking “Register” must redirect to the registration form (if self-registration is allowed).
- f. **Requirement:** A user cannot log in as **Student** unless their account has been added/approved in the **Librarian Dashboard’s User Management** page.

### 2. Student Dashboard

The dashboard features a top navigation bar with the BookHive logo, 'Student Dashboard', a search bar ('Search books, authors...'), an AI Assistant button, and a notifications icon (3). Below the bar, a welcome message 'Welcome back, John!' is displayed, followed by a sub-message 'Explore your digital library with AI-powered assistance and discover new knowledge'. A 'Browse Books' button is also present.

The main area contains several cards:

- Current Loans:** 3 items, 1 overdue.
- Books Read:** 2 items, This semester.
- Due Soon:** 2 items, Within 3 days.
- Overdue:** 1 item, Needs attention.
- Penalties:** ₱55,400 Outstanding fees.

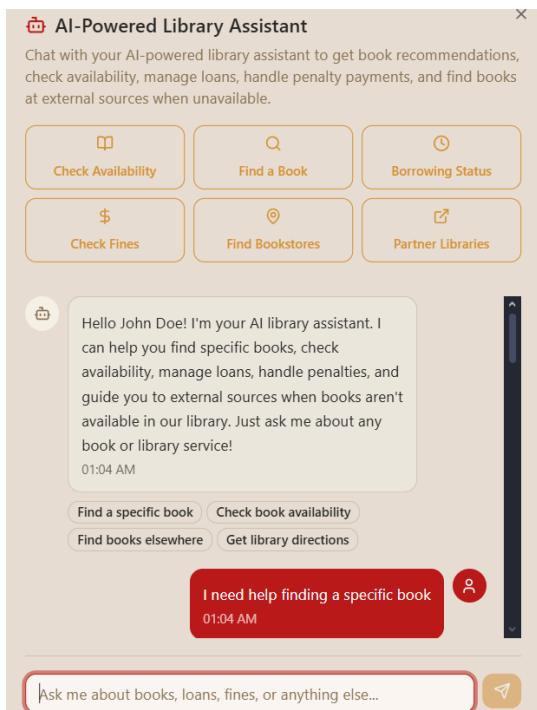
Below these are sections for 'Featured Books' and 'Quick Actions':

- Featured Books:** Popular and newly added coastal treasures. Examples include 'Machine Learning Fundamentals' by Dr. Alex Kumar (available), 'Advanced Mathematics' by Sarah Wilson (Overdue, Fine: ₱55,400), 'Digital Signal Processing' by Maria Rodriguez (4.6 rating, Engineering, Available), and 'Modern Physics' by Robert Johnson (4.9 rating, Physics, Checked Out).
- Quick Actions:** Common tasks and AI-powered shortcuts. Buttons include 'Search Books', 'AI Assistant', 'Reading List', and 'Loan History'.

- A. The dashboard must show a **welcome message** with the student's name.
- B. A **search bar** must be visible at the top, allowing search by:
- Title
  - Author
  - Genre
  - Availability
- C. When the search is performed, the result grid must populate dynamically with matching books.
- D. Clicking a book must open the **Book Details modal** showing:
- Title, Author, Genre, Date Added
  - Quantity Available
  - Borrow/Reserve button
- E. **My Account page** must display:
- Borrowing history

- Current loans with due dates
- Overdue books highlighted in red with corresponding penalty amounts

F. **AI Chatbot modal** must open when the chatbot icon is clicked and allow:



- Checking book availability and where it can be found if unavailable
- Showing borrowing status
- Suggesting similar books
- Checking for penalty and overdue

G. **Notifications panel** must show:

- Due date alerts
- New arrivals (sorted by most recent)
- Overdue and penalty reminders

H. **Profile Settings** must allow:

- Editing personal information
- Changing password

### 3. Librarian Dashboard

The screenshot shows the BookHive Librarian Dashboard. At the top, there's a red header bar with the BookHive logo, a search bar containing 'Search books, users...', and notification icons for 3 messages and 5 users. Below the header is a navigation menu with tabs: Home, Overview, Current Loans, Books, Authors, Users, and Reports. The 'Overview' tab is active. Underneath the menu is a row of summary cards:

Total Books	Borrowed	Overdue	Active Users	New Arrivals	Reservations	Total Penalties	Users with Fines
15,420	2,847	156	2,500	45	89	₱34,250	89

Below these cards is a section titled 'Quick Actions' with four buttons: '+ Add Book', 'Add Author', 'Add User', and 'View Overdue'.

- A. The dashboard must display **summary cards** for:
  - Total books
  - Books currently borrowed
  - Overdue books
  - Total penalties collected and outstanding penalties
- B. Clicking “Books Borrowed” must show a table with:
  - Book title
  - Borrow date
  - Due date
  - Return date (if available)
  - Current status
- C. **Authors page** must display a list of authors with an “Add Author” button.
- D. Clicking “Add Author” must open a modal to input author's name and biography.
- E. **Add Book page** must have fields for:
  - Title
  - Author (select or add new)
  - Category/Genre
  - Date Added
  - Quantity of copies
- F. **User Management page** must allow:
  - Viewing all students
  - Assigning/removing roles
  - Editing or deactivating student records
- G. **Notifications panel**
  - System alerts
  - Overdue/fine reminders
- H. **Penalty Management:**
  - Librarians can extend due dates for loans.
  - System automatically calculates penalties for overdue books.
  - Librarians can confirm, waive, or adjust penalties.

- Penalty status (paid/unpaid/waived) must be visible.

#### I. Profile Settings

- update information
- change passwords

### 4. System-Wide Criteria

- Passwords must be hashed and stored securely.
- Every borrowing, returning, penalty assignment, due date extension, and inventory update must be recorded in **AuditLogs** with user\_id, timestamp, and action.
- Data integrity must be maintained. No orphaned loans (book\_id/student\_id must exist). System must validate the quantity before allowing a book to be borrowed (cannot be less than 1 available).
- All critical actions (borrow, return, and delete book, apply penalty, extend due date) must have confirmation modals.
- Overdue Handling:**
  - i. Loans not returned by due date are automatically marked as overdue.
  - ii. Penalties are computed daily or per system-defined rules.
  - iii. Students cannot borrow new books until existing penalties are cleared.