

# Software Requirements Specification (SRS)

## HH Library Management System

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### 1. Introduction

This document outlines the functional and non-functional requirements for the HH Library Management System. It describes how the system will be built to ensure usability and performance.

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### 2. Functional Requirements

#### 2.1 User Registration & Authentication

- FR1: Users can register with a username, email, and password.
- FR2: Registered users can log in to access the system.

#### 2.2 Book Search

- FR3: Users can search for books by title, author, or ISBN.
- FR4: The system displays a list of matching books.

#### 2.3 Borrowing/Returning Books

- FR5: Users can borrow available books.
- FR6: Users can return borrowed books.
- FR7: The system updates the status of books accordingly.

#### 2.4 Admin Functions

- FR8: Administrators can add new books.
- FR9: Administrators can update or delete books.

#### 2.5 Overdue Notifications

- FR10: The system checks for overdue books and flags them.
  - FR11: Users are notified of overdue books.
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### 3. Non-Functional Requirements

- NFR1: The system should respond within 3 seconds for any user action.
  - NFR2: The UI must be user-friendly and accessible.
  - NFR3: The system should handle up to 100 concurrent users.
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### 4. System Constraints

- The backend is built on Spring Boot with Maven.
  - The database used is MySQL 8+.
  - The frontend is built with React 18.
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