
Agile

for

Library Management System

Prepared by

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Epics:

1. Requirements & Documentation
2. System Design (UML Diagrams)
3. Core System Implementation
4. Testing & Final Delivery

Work	Assignee	Reporter	Priority	Status	Resolution	Created	More
> LMS-5 Testing & Final Delivery	Unassigned	Nourhan Ibrahim	= Medium	TO DO ▾	Unresolved	Jan 02, 2026, 9:58 PM	
> LMS-4 Core System Implementation	Unassigned	Nourhan Ibrahim	= Medium	TO DO ▾	Unresolved	Jan 02, 2026, 9:58 PM	
> LMS-3 System Design (UML Diagrams)	Unassigned	Nourhan Ibrahim	= Medium	TO DO ▾	Unresolved	Jan 02, 2026, 9:57 PM	
> LMS-1 Requirements & Documentation	Unassigned	Nourhan Ibrahim	= Medium	TO DO ▾	Unresolved	Jan 02, 2026, 9:55 PM	

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User stories:

1. Requirements & Documentation

- Functional Requirements
- Non-Functional Requirements

2. System Design (UML Diagrams)

- Class diagram
- Use case diagrams
- Activity diagrams
- Sequence diagram

3. Core System Implementation

- Classes implementation
- Implement Book Management (Librarian)
- Implement Book Search Functionality
- Implement Borrow Book Feature
- Implement Return Book Feature
- Implement Console Menus & Navigation

4. Testing & Final Delivery

- Test features
- Clean code
- Upload deliverables

Sprints:

1. LMS Sprint 1 - Requirements

Goal: Clear understanding of what to build

<input type="checkbox"/> LMS Sprint 1 - Requirements 2 Jan – 3 Jan (2 work items)	
Clear understanding of what to build	
<input checked="" type="checkbox"/> LMS-6 Functional Requirements	
<input checked="" type="checkbox"/> LMS-7 Non-Functional Requirements	

2. LMS Sprint 2 - System Design

Goal: Visualize system structure & behavior

<input type="checkbox"/> LMS Sprint 2 - System Design 3 Jan – 4 Jan (4 work items)	
Visualize system structure & behavior	
<input checked="" type="checkbox"/> LMS-8 Class diagram	
<input checked="" type="checkbox"/> LMS-11 Use case diagrams	
<input checked="" type="checkbox"/> LMS-12 Activity diagrams	
<input checked="" type="checkbox"/> LMS-13 Sequence diagram	

3. LMS Sprint 3 - Core Implement

Goal: Working console application

<input type="checkbox"/> LMS Sprint 3 - Core Implement 4 Jan – 6 Jan (6 work items)	
Working console application	
<input checked="" type="checkbox"/> LMS-14 Classes implementation	
<input checked="" type="checkbox"/> LMS-15 Implement Book Management (Librarian)	
<input checked="" type="checkbox"/> LMS-16 Implement Book Search Functionality	
<input checked="" type="checkbox"/> LMS-17 Implement Borrow Book Feature	
<input checked="" type="checkbox"/> LMS-18 Implement Return Book Feature	
<input checked="" type="checkbox"/> LMS-19 Implement Console Menus & Navigation	

4. LMS Sprint 4 – Testing

Goal: Finish & polish

<input type="checkbox"/> LMS Sprint 4 - Testing 6 Jan – 7 Jan (3 work items)	
Finish & polish	
<input checked="" type="checkbox"/> LMS-20 Test features	
<input checked="" type="checkbox"/> LMS-21 Clean code	
<input checked="" type="checkbox"/> LMS-22 Upload deliverables	