
Agile

for

Library Management System

Prepared by

Nourhan Ibrahim

















Shahd Mohamed

Rehab Hamed

Rana Salem

Epics:

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

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

+ Create

4 of 4

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			
	LMS-6	Functional Requirements	REQUIREMENTS & DO...
	LMS-7	Non-Functional Requirements	REQUIREMENTS & DO...

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			
	LMS-8	Class diagram	SYSTEM DESIGN (UM...
	LMS-11	Use case diagrams	SYSTEM DESIGN (UM...
	LMS-12	Activity diagrams	SYSTEM DESIGN (UM...
	LMS-13	Sequence diagram	SYSTEM DESIGN (UM...

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			
	LMS-14	Classes implementation	CORE SYSTEM IMPLE...
	LMS-15	Implement Book Management (Librarian)	CORE SYSTEM IMPLE...
	LMS-16	Implement Book Search Functionality	CORE SYSTEM IMPLE...
	LMS-17	Implement Borrow Book Feature	CORE SYSTEM IMPLE...
	LMS-18	Implement Return Book Feature	CORE SYSTEM IMPLE...
	LMS-19	Implement Console Menus & Navigation	CORE SYSTEM IMPLE...

4. LMS Sprint 4 – Testing

Goal: Finish & polish

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