

Jamk Library Srs

Stakeholders

Primary Stakeholders:

- **JAMK Library Management:** Oversees the project and ensures it meets the library's requirements.
- **JAMK Students and Staff:** End-users who will use the system to borrow, reserve, and extend loans.
- **JAMK IT Department:** Ensures integration with the existing JAMK authentication system.
- **BeSoft Ltd:** The development company responsible for designing, developing, and maintaining the system.
- **JAMK Administration:** Ensures the system aligns with JAMK policies and regulations.

Secondary Stakeholders:

- **Cybersecurity Experts:** Ensures that user data remains secure.
 - **Regulatory Authorities:** Ensures compliance with data protection laws.
 - **External Vendors (E-Book Providers):** Integration partners for e-book lending.
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Feasibility Study

Technical Feasibility:

- The system will be a web-based platform, ensuring accessibility from any device.
- JAMK's authentication system will be integrated using industry-standard authentication protocols.
- Modern web frameworks will be used to ensure responsiveness and security.

Economic Feasibility:

- The approved budget is 300k€.
- Development costs include frontend, backend, security, and infrastructure setup.
- Maintenance and potential scalability costs are considered.

Operational Feasibility:

- Users are already familiar with digital systems, so the learning curve will be minimal.
- A user-friendly interface will be designed for easy access and navigation.
- Support and training will be provided for staff.

Legal Feasibility:

- Compliance with GDPR and JAMK's internal policies regarding data protection.
 - Agreements with e-book providers for content distribution.
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Software Requirements Specification (SRS)

1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for a modern, secure, and efficient book loan system for JAMK Library, including e-book lending capabilities.

1.2 Conventions

- The system will follow ISO/IEC 25010:2011 software quality standards.
- Security best practices such as OWASP Top 10 will be adhered to.

1.3 Intended Audience

- JAMK Library Management
- BeSoft Ltd development team
- JAMK IT Department
- Security and Compliance teams

1.4 Scope

- Users can borrow, reserve, and extend book loans.
- E-book borrowing capability is included.
- Secure authentication using JAMK credentials.
- Web-based system with mobile-friendly design.
- Secure storage of user data.

1.5 References

- JAMK IT Security Policies
 - GDPR Regulations
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2. Overall Description

2.1 Product Perspective

The new system replaces the existing manual book loan tracking process, integrating with JAMK's authentication system and ensuring security and ease of use.

2.2 Product Features

- Secure user authentication.
- Physical book borrowing, reserving, and extending.
- E-book lending.
- Mobile-friendly interface.
- Administrative dashboard for staff.

2.3 Operating Environment

- Web-based application.
- Compatible with modern browsers.
- Mobile and desktop usability.

2.4 Design and Implementation Constraints

- Must integrate with JAMK authentication systems.
- Must comply with GDPR.
- Budget limitation of 300k€.

2.5 User Documentation

- User guides and FAQs.
- Staff training materials.

2.6 Dependencies

- JAMK authentication system.
 - Third-party e-book providers.
 - Web hosting and database infrastructure.
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3. System Features

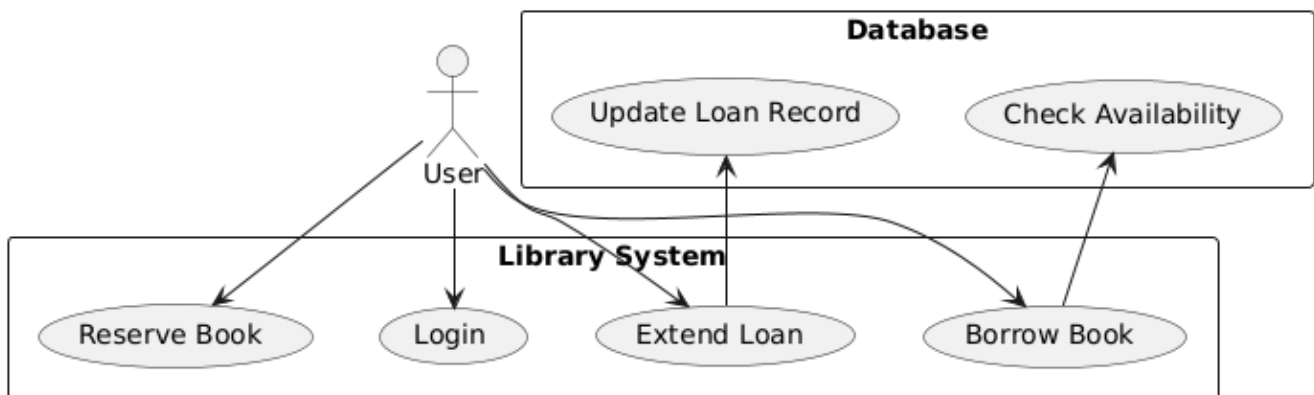
3.1 Functional Requirements

- Users must authenticate using JAMK credentials.
- Users can borrow books (physical and digital).
- Users can reserve books.
- Users can extend loan periods.
- Admins can manage inventory and users.

3.2 System Requirements

- Web-based application.
- Secure database for storing user and book data.
- Integration with JAMK authentication.
- Scalability to handle hundreds of simultaneous users.

Use Case Diagram



Sequence Diagram

