



FH Salzburg

SWD-LB ITS PROJECT

IST-Library – Management System

Informationstechnik und System-Management / Wirtschaftsinformatik

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vorgelegt von

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Table of contents

1	Project Description	2
1.1	Project Setting	2
1.1.1	Current situation	2
1.1.2	Project goals	2
1.1.3	No Project goals	2
1.1.4	List of Stakeholder	2
1.2	Context Diagram.....	3
1.3	Requirements	3
1.3.1	Functional requirements	3
1.3.2	Non-functional requirements	3
2	System Behaviour	4
2.1	Use Case Diagram	4
2.2	Use Case 1 xxx	4
2.2.1	Use Case Description	4
2.2.2	Activity Diagram	4
2.3	Use Case 2 xxx	4
2.3.1	Use Case Description	4
2.3.2	Activity Diagram	4
3	Domain Model (CDM) and Descriptions.....	5
4	System Architecture	5
4.1	Selected Technology.....	5
4.2	Component Diagrams.....	5
4.3	Class Diagrams.....	5
4.4	Sequence Diagrams.....	5
4.4.1	Use Case1 xxx	5
4.4.2	Use Case2 xxx	5
5	Deployment Diagrams.....	5
6	Implementation.....	5
7	Conclusion	5

1 Project Description

1.1 Project Setting

1.1.1 Current situation

We are a public library and we want to establish a new library management solution for improved handling of our library.

1.1.2 Project goals

- Usability
- Availability
- Comprehensive digital handling of media
- Account handling

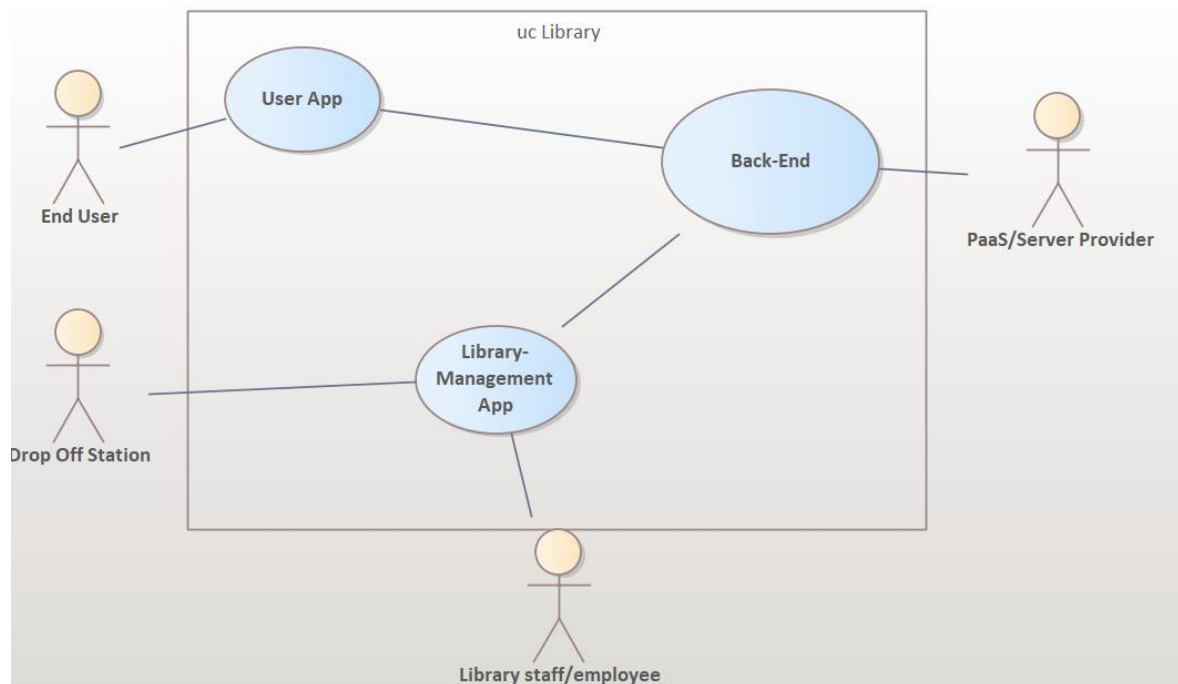
1.1.3 Non Project goals

- Physical handling of media
- Digitalization of media

1.1.4 List of Stakeholder

- Library/ Library-staff
 - The main interest of the staff are easy handling of the application. Handling of media should be made very user friendly, even for unschooled users.
- Drop-off Station
 - The Drop Off station has interest in a good and reliable connection to the main library, so returned media can be registered. Another interest is easy maintainability and serviceability.
- User
 - The main interest of the users are ease of use, broad functionality and secure data and payment processing.
- Server/Plattform-Provider
 - It is in the Providers interest to host a good implemented application, which is optimized for CPU consumption and handles client connections well.

1.2 Context Diagram



1.3 Requirements

1.3.1 Functional requirements

- Handling of Media
 - Loan/ (cancel-)reserve/ return/ creation/ view/ store
- Billing
- Account handling
- Media
- Handling of drop-off station

1.3.2 Non-functional requirements

1.3.2.1 Quality requirements

- Usability
- Scalability
- Security
- Reliability
- Maintainability

1.3.2.2 Constraints

- Each Media is marked as a specific category
- Each media has a unique ID

2 System Behaviour

2.1 Use Case Diagram

2.2 Use Case 1 xxx

2.2.1 Use Case Description

2.2.2 Activity Diagram

2.3 Use Case 2 xxx

2.3.1 Use Case Description

2.3.2 Activity Diagram

3 Domain Model (CDM) and Descriptions

4 System Architecture

4.1 Selected Technology

4.2 Component Diagrams

4.3 Class Diagrams

4.4 Sequence Diagrams

4.4.1 Use Case1 xxx

4.4.2 Use Case2 xxx

5 Deployment Diagrams

6 Implementation

7 Conclusion