

# Ryhmä 1 - Product Vision Document

**Product Name:** Library Management System  
**Product Owner:** Amir Dirin  
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## Members - Ryhmä 1

**Member 1:** Riku Kaartoaho  
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## 1. Problem & Value Proposition

### Problem:

Students and teachers often have difficulties knowing whether a specific book is available in the library. They might waste time visiting the library if the book is already borrowed. In addition, there is no simple way to get reminders about due dates, which can result in late returns and penalties.

### Value proposition:

The system helps users search and reserve books online, so they do not waste time looking for books that are already borrowed. It also sends clear reminders about due dates to help avoid overdue penalties.

## 2. Product Functionalities

### Core Product Features & Functionalities:

1. **Feature:** User can authenticate (signup/login) to make book reservations.
2. **Feature:** Role-based authentication: **Customer/Librarian.**
3. **Feature:** Librarians can perform basic CRUD operations for books database.
4. **Feature:** Users can search and list books from the library database.
5. **Feature:** Users can make an online reservation for a book for a set time-period  
**Feature:** Users can manage their reservation state by returning the book/extend reservation periods.
6. **Feature:** Penalty-system with reminders for overdue reservations.
7. **Feature:** Users are unable to make reservations if restrictions apply.

## 3. Target Users

### Target Users:

- Students (primary school, secondary school, high school, university, self-learners)
- Teachers
- Researchers
- Casual readers / hobby readers
- Parents with kids (children's books)

## 4. Goals and Objectives

- Increase user adoption rates by 10% within the first year.
- Improve user satisfaction scores to 3.5 out of 5 or above.
- Generate value through efficiency by 30% by reducing the need for employees within the first year.

## 5. Vision Statement

Our vision is to create an accessible, user-friendly, and efficient digital library catalogue system that simplifies the process of searching, borrowing, and returning books. We aim to increase efficiency within the library system by automating routine operations and

providing real-time updates on book availability to empower our users and drive positive outcomes.