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|  | **CS6.401 Software Engineering**  **Project 2** | |  |
| **Project Bonus**  **Sismics Books**  **TEAM\_11** | |
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|  | Sismics Books | |  |
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1. **Introduction**

In the second phase of our course project, we aim to elevate the functionality and user experience of the Books repository by implementing key features and refining existing ones. Through the adept utilization of design patterns and Object-Oriented Programming (OOP) principles, we will enhance user management, introduce a common library system, and seamlessly integrate Spotify and iTunes services for audiobooks and podcasts. Additionally, we'll empower users with the ability to customize the privacy settings of their bookshelves, fostering a more personalized and secure reading experience.

* 1. **Objective:**

The objective of this project is to enhance the Books application by integrating advanced features and functionalities, focusing on user management, a common library system, online integration with Spotify and iTunes, and the introduction of public and private bookshelves. This project aims to improve user experience and convenience, facilitate a more engaging library experience, and expand the platform's capabilities through the integration of external services. By applying software engineering principles and design patterns, the project seeks to demonstrate efficient and precise use of these methodologies to achieve a robust and user-friendly application.

1. **Feature 1: Better User Management:**

**Objective:** Enhance user experience and convenience by enabling self-user registration directly from the login page.

* 1. **Detailed Description:**
* Allow the user to enter his/her username, email and password in the registration page.
* The email should be checked for uniqueness (i.e. the same email shouldn’t have been registered before)
* The user should be asked to enter the password twice for confirmation.
* Apply checks such as valid email id, at least 8-digit password etc.

1. **Feature 2: Common Library:**
2. **Feature 3: Online Integration**