**Online Bookstore**

**Supplementary Specification**

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The application is an online platform which has the purpose of helping users buy books while also being able to see a short description of them and reading other people's reviews.

* **Non-functional Requirements**

The system should always be up to date with all the pieces of information, connected to the server and able to save the new information in real time without data loss. This will be possible using the correct CRUD operations by the administrator of the system in order to modify and update the database info.

* **Availability**

The application has to be available all the time, on any browser and on any computer on which the user can connect to the server and the connection to the database is possible.

* **Performance**

The performance refers to the response time when more users access simultaneosly the information in the system. This response time will be measured and should not increase significantly when more users enter the application.

* **Security**

The application's security will be ensured by using an encryption algorithm which will allow at the user accounts creation the encrypted result of the passwords will be stored in the database. Also, the entire MySQL database will be protected by a password.

The security inside the application will be ensured by the registration and authentification processes. Therefore, a user can only modify info related to his personal account. The admin has more rights, but the data related to his account is also protected.

The user input will always be verified and only if it passes the validation tests it will be taken into consideration.

* **Testability**

Since this is a web application, the functionalities can be tested by testing the HTTP requests and the data they return, which can be done either in the development environment or using a third party software.

* **Usability**

New users can create new accounts. The application can be used only by users with created accounts. As usability refers to how easy the application can be used, it can be measured as number of steps required in order to perform certain actions.

* **Design Constraints**

The application will be implemented in Java.

The present database will be a MySQL database.

The Spring Framework will be used in order to ease the implementation of the application's features and the entire back-end project will be created using a Maven configuration.