Your Books EveryWhere

Analysis and Design Document

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1. Requirements Analysis

# Assignment Specification

In this application any users will provide books and they would be inform about disponibility of all books.They will search these items after some specifications,characteristics of them.After these they would check them for availability,if the book is available.If not,the users will be put in a priority queue(The first served will get the book).

# Functional Requirements

*This application will be made in C# with a friendly User Interface.They will login if they have an account.If not firstly they should register.After that thay will provide the book as I told in the previous section.*

# Non-functional Requirements

*[Discuss the non-functional requirements for the system]*

2. Use-Case Model

*[Create the use-case diagrams and provide one use-case description (according to the format below).*

*Use-Case description format:*

*Use case: <use case goal>*

*Level: <one of: summary level, user-goal level, sub-function>*

*Primary actor: <a role name for the actor who initiates the use case>*

*Main success scenario: <the steps of the main success scenario from trigger to goal delivery>*

*Extensions: <alternate scenarios of success or failure>*

*]*

3. System Architectural Design

**3.1 Architectural Pattern Description**

*[Describe briefly the used architectural patterns.]*

**3.2 Diagrams**

*[Create the system’s conceptual architecture; use architectural patterns and describe how they are applied. Create package, component and deployment diagrams]*

4. UML Sequence Diagrams

*[Create a sequence diagram for a relevant scenario.]*

5. Class Design

**5.1 Design Patterns Description**

*[Describe briefly the used design patterns.]*

**5.2 UML Class Diagram**

*[Create the UML Class Diagram and highlight and motivate how the design patterns are used.]*

6. Data Model

*[Present the data models used in the system’s implementation.]*

7. System Testing

*[Present the used testing strategies (unit testing, integration testing, validation testing) and testing methods (data-flow, partitioning, boundary analysis, etc.).]*

8. Bibliography