**Software requirements specifications (SRS) for Book Store Library System**

1. **Introduction  
   1.1 Purpose**

The main purpose of the system is to manage inventory items in a bookstore.

* 1. **Scope**
     1. The system will have a database that can hold 2 different items: Books and Journals.
     2. The system will display all the database to the user.
     3. The system will display a specific selected item to the user.
     4. The system will allow editing all of the individual item’s field.
     5. The system will keep available inventory information and allow purchase.
     6. The system will perform flexible searches within the inventory, on multiple field.
     7. The system will write exceptions to an external log.

1. **Overall description   
   2.1** **Product Perspective**  
   The system will have 3 components. The first will be the data base which holds a collection of items. The second will be the managers which holds all the systems functionality, connecting the 3 components of the system. The third will be the UI which displays the inventory information to the user and receives his input.
2. **System Features**
   1. **Product Functions**
      1. The database will hold the following information field:  
         name, publisher, printing date, ISBN/ISSN code, price, discount rate, inventory amount and genres. An item will be able to have more than one genre.  
         Additional field for books will be: author, summary and edition.  
         Additional field for journals will be: issue and publishing frequency.
      2. Init Stock – the system will allow loading initial inventory to the database.
      3. Add item - the system will allow creating new items and add them to the database.
      4. Edit item - the system will allow editing existing items and save the changes to the database.
      5. Remove item – the system will allow remove chosen items from the database.
      6. Search – the system will allow a flexible search with in the data base using selected fields: name, printing date, publisher, discount rate, genre, author publishing frequency and ISBN/ISSN code.
      7. Set Discount for all – the system will allow to set a unified discount rate to a chosen list of items (either for the entire database or to a smaller list narrowed by a search)
      8. Buy – the system will allow deducting inventory amount when items are purchase.
   2. **System Diagram**

**ItemComparere**

Enums

IComparers

**AbstractItem**

* name
* publisher
* printing date
* ISBN/ISSN code
* price
* discount rate
* inventory
* genres

**Add Item**

**StartMenu**

**MainPage**

* manager

**Search**

**Edit**

**UI**

**DataBase**

* AbstractItem collection

**Manager**

* Database

**Book**

* Author
* Summary
* Edition

**Journal**

* Issue
* Publication frequency