

Software Requirements Specification

WEB Library

April 21, 2016

Version 7.0

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Any comments inside double brackets such as these are not part of this SRS but are comments upon this SRS example to help the reader understand the point being made.

Refer to the SRS Template for details on the purpose and rules for each section of this document.

This work is based upon the submissions of the Spring 2016. The students who submitted these team projects were: Plamen Markov, Radmila Karakanova, Ivo Igov, Veselina Tavlieva, Timi Valentinov, Elena Doncheva, Blagovesta Pencheva.

# Confidential Proprietary

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# Documented Releases

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| V 1.0 | Base template | 16.04.2016 |  |
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| V 3.0 | General updates, Add new paragraph 2.2, Add schemes and figures | 17.04.2016 |  |
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| V 5.0 | Add new paragraph 2.2.2-2.2.6 | 18.04.2016 |  |
| V 6.0 | Correct some mistakes, add links | 21.04.2016 |  |
| V 7.0 | Add new paragraph 2.5 | 21.04.2016 |  |
|  |  |  |  |

# Related Documents

| Document name | Type | Provided By | Last updated/Provide date |
| --- | --- | --- | --- |
| Test\_Cases\_Web\_Library4.0.xls | Excel | Daratar | 21.04.2016 |
|  |  |  |  |

# Project Team

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# Software Requirements

## Introduction

### Purpose

The purpose of this document is to present a detailed description of Web Library application (hereinafter called Web Library, Library or simply Project). It will explain some of the key features at a very high level.

### Scope of Project

Web Library is an online system which members of a library can use to see if there is a certain book in the library. Furthermore they can read a short introduction about it.

This document will cover the basic functionality on high level regarding the Web Library. The user-management system, the uploading of a book and operation and its respective details (hereinafter called Books). The Web Library not have an administrative part. It will have only an admin user who can delete books uploaded from different users.

### Vocabulary

The document will cover the basic functionality on high level regarding the Web Library. The user-management system, the uploading of a book and operation and its respective details (hereinafter called Books). The Web Library does not have an administrative part.

#### Book Upload Panel

The Book Upload Panel requires from the Registered User all info necessary for a book to be uploaded in the Library. This info will be stored in the Book Info Panel. It consists of 7 boxes and a button for image upload (order is important):

* [Title](http://i.imgur.com/Rk5RitW.png) – the name, under which the book will be stored in the Library

* [Author](http://i.imgur.com/eG0jNTM.png) – the author of the book

* [Pages](http://i.imgur.com/OuSzmi8.png) – the number of pages in the official printed copy of the book

* [ISBN](http://i.imgur.com/P8RNw4Z.png) – the book’s issue number

* [Publish Date](http://i.imgur.com/fupdTz0.png) – the date the respective copy has been published

* [Select Format](http://i.imgur.com/bfAtWs2.png) – the format of the books, A1-A5
* A field for a [short resume](http://i.imgur.com/SXth8T5.png) of the book
* Select File button – the selected file will appear as book Cover in the Book Info Panel

#### Book Info Panel

The Book Info is a block, regarding the info about a book. It consists of a table in which’s header is listed the info about the book, filled in the Book Upload Panel. Here the order is different, also it is viewed from left to right.

* ID – the number, under which the book has been uploaded in the system
* Cover – the book’s cover as selected in the Book Upload Panel
* Title
* Author
* Pages
* ISBN
* Date of Publishing
* Format
* Resume

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | COVER | TITLE | AUTHOR | PAGES | ISBN | DATE OF PUBL. | FORMAT | RESUME |
|  |  |  |  |  |  |  |  |  |

## Overall Description

### System environment

The Web Library has active users who access it from the internet. They have different access depend on the user role.

Registered user

Add book

Delete book

See book

Search book

Admin user

The system has the following roles:

* Registered user
* Admin

The Unregistered user cannot access the basic functionality of the project at all.

Only the Registered user can access the Web library, upload books and view the List of Books and search in the list of books. The Registered User can upload books and view the List of Books, but cannot delete books.

Registered User

See Book

Search Book

Add Book

Only the Web Library Superuser(Admin) can access the functionalities of the Library and delete books.

Admin

See Book

Search Book

Add Book

Delete Book

### Necessary user screens

The Web library will have the following screens:

* [Log in](http://i.imgur.com/3QQ6L0A.png)
* [Select option](http://i.imgur.com/8y3LioA.png)
* [See book](http://i.imgur.com/4HK1UQE.png)
* [Search book](http://i.imgur.com/RvwMbmC.png)
* [Add book](http://i.imgur.com/lLrI7it.png)
* [Delete book](http://i.imgur.com/F0t7C2I.png)

Logical schema of the screens will be:

LOGIN

SELECT OPTION

SEE

ADD

DELETE

In the next rows are described the necessary fields, buttons, links for each screen.

#### Log in/Register form

When the user starts the site the first screen is [Log in](http://i.imgur.com/3QQ6L0A.png) screen. Here the user has two options:

* [Login](http://i.imgur.com/8BhKeaH.png) - to log in the site, if he/she is registered user.
* [Register](http://i.imgur.com/RzmfhFl.png) - To register in order to use the site.

##### Log in

**Fields**: User, Password

**Buttons**: [Log in](http://i.imgur.com/8BhKeaH.png)

**Links**: Log in, [Register](http://i.imgur.com/RzmfhFl.png). If the active screen is [Login](http://i.imgur.com/3QQ6L0A.png) user can choose [Register](http://i.imgur.com/RzmfhFl.png) and vice versa.

**Schema of the screen**:

Password

Username

Login

Register

LOG IN

##### You've entered invalid data, please try again!

\* The red message appears when the user was typed incorrect username or password and choose button [LOG IN](http://i.imgur.com/8BhKeaH.png).

##### Register

**Fields:** The [Register Dialog](http://i.imgur.com/9Umhdm2.png) consists of the following fields:

* [First name](http://i.imgur.com/3DoAr89.png)
* [Second name](http://i.imgur.com/UoWKOmR.png)
* [Family name](http://i.imgur.com/YlGD6iA.png)
* [Email](http://i.imgur.com/qKLu8LA.png)
* [Username](http://i.imgur.com/NLxjhGw.png)
* [Password](http://i.imgur.com/vcGX6qB.png)
* [Re-type password](http://i.imgur.com/SMq3MnL.png)

**Buttons:** [Log in](http://i.imgur.com/8BhKeaH.png)

**Links:** Log in, [Register](http://i.imgur.com/RzmfhFl.png). If the active screen is [Login](http://i.imgur.com/3QQ6L0A.png) user can choose [Register](http://i.imgur.com/RzmfhFl.png) and vice versa.

**Schema of the screen**:

Re-type password

Password

Username

Email

Family name

Login

Register

Register now

Your password must be at least 6 characters long and contain at least one number and one character

First name

Second name

\* The red message appears when typed password don’t match the credentials.

#### Select option

When the user log in he/she can choose one of the options:

* See a book
* Add a book
* Delete a book, but only if the user is admin

**Fields:**  no fields.

**Buttons:** [SEE](http://i.imgur.com/0cNHykb.png), [ADD](http://i.imgur.com/A3M0PuF.png), [DELETE](http://i.imgur.com/cfp6wzw.png). Each button opens a different tab.

**Links:** [Log out](http://i.imgur.com/ACO6yO3.png) – This link returns user in [log in](http://i.imgur.com/3QQ6L0A.png) page.

**Schema of the screen**:

Welcome, USERNAME! Log out

PLEASE, SELECT AN OPTION







#### See book

When user chooses “[See a Book](http://i.imgur.com/4HK1UQE.png)” he\she can read a short introduction about the book and can open it for reading.

**Fields:**  no fields.

All books listed in a table with following header:

Cover, Title, Author, Pages, ISBN, Date of publishing, Format, Resume.

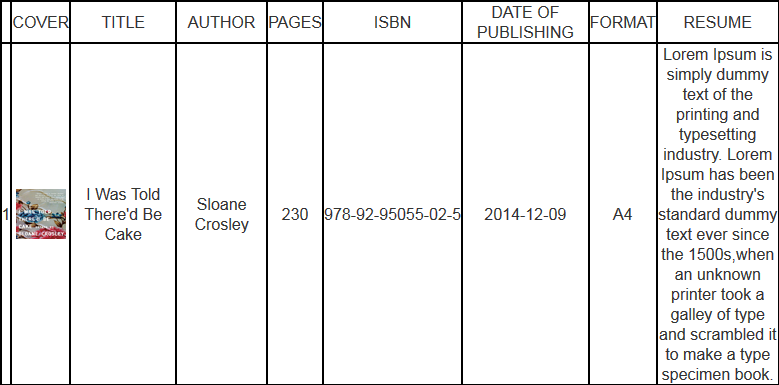
**Buttons:** [Back](http://i.imgur.com/SYUlXqB.png). This button returns user to previous page.

**Links:** Number of Pages

**Schema of the screen**:

Back

BOOK



#### Search book

When user chooses “[Search a Book](http://i.imgur.com/RvwMbmC.png)” new window opens and he\she can write a string for searching.

**Fields**: [Search file](http://i.imgur.com/RvwMbmC.png)

All found books listed in a table with following header:

Cover, Title, Author, Pages, ISBN, Date of publishing, Format, Resume.

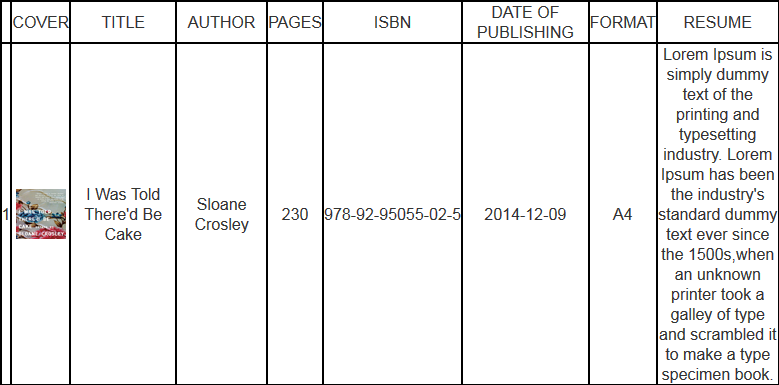
**Buttons:** [Back](http://i.imgur.com/SYUlXqB.png) and Number of Pages.

**Links:** no links.

**Schema of the screen**:

Search 

BOOK





#### Add book

When user chooses “[Add a Book](http://i.imgur.com/A3M0PuF.png)” a new window opens and he\she can [upload](http://i.imgur.com/lLrI7it.png) a new one.

**Fields**:

It is necessary to fill some additional information about the book: Cover, [Title](http://i.imgur.com/Rk5RitW.png), [Author](http://i.imgur.com/eG0jNTM.png), [Pages](http://i.imgur.com/OuSzmi8.png), [ISBN](http://i.imgur.com/P8RNw4Z.png), [Date of publishing](http://i.imgur.com/fupdTz0.png), [Format](http://i.imgur.com/bfAtWs2.png), [Description](http://i.imgur.com/SXth8T5.png).

All fields are obligatory

**Buttons:** [Back](http://i.imgur.com/GIwzmE2.png) and [Preview](http://i.imgur.com/SDWymsN.png).

**Links:** no links.

**Schema of the screen**:

Author

Title

Select Format 

Description

Preview

ADD BOOK TO LIBRARY

Not chosen file

Publish date

ISBN

Pages

FILL UP THE FIELDS

#### Delete book

When user chooses “[Delete a Book](http://i.imgur.com/cfp6wzw.png)” a new screen opens and all books are listed in a table.

**Fields**:

Books listed in a table with the following header.

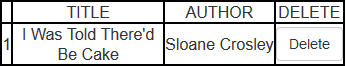
Title, Author, Delete.

**Buttons:** Back and [Delete](http://i.imgur.com/jEWGKEm.png)

**Links:** no links.

**Schema of the screen**:

Delete book



### Functional requirement specification

#### Use Case 1 (Accessing the system)

The system is accessed through the internet from its initial URL. It loads a page with a login dialog.

#### Use Case 2 (Log In dialog)

When the user reaches the site the first screen is [Log in](http://i.imgur.com/3QQ6L0A.png) screen. Here the user has two options:

* [Login](http://i.imgur.com/8BhKeaH.png) - to log in the site, if he/she is a registered user.
* [Register](http://i.imgur.com/RzmfhFl.png) - to register in order to use the site.

In the first case the login dialog consists of a Username box, a Password box and a [Log In](http://i.imgur.com/8BhKeaH.png) button. If the user enters valid credentials, he is redirected to the Add Book / See List page. If the credentials are invalid, a respective [error message](http://i.imgur.com/3gmrIgt.png) is shown.

The [Register Dialog](http://i.imgur.com/9Umhdm2.png) consists of the following fields (order is important):

* [First name](http://i.imgur.com/3DoAr89.png)
* [Second name](http://i.imgur.com/UoWKOmR.png)
* [Family name](http://i.imgur.com/YlGD6iA.png)
* [Email](http://i.imgur.com/qKLu8LA.png)
* [Username](http://i.imgur.com/NLxjhGw.png)
* [Password](http://i.imgur.com/vcGX6qB.png) - password must be at least 6 characters long and contain at least one number and one character.
* [Re-type password](http://i.imgur.com/SMq3MnL.png)

After the user fills in the boxes with valid info and clicks [Register Now](http://i.imgur.com/9bM542p.png), the registration process is complete and user is redirected to homepage.

#### Use Case 3 (Add Book)

In order to add a book, one should be a Registered User or a Superuser and click the [Add button](http://i.imgur.com/A3M0PuF.png) on the Homepage. User is redirected to a page with a Fill Up Fields menu. After all necessary data is filled or uploaded and the [Add Book to Library button](http://i.imgur.com/Rl5wiVH.png) is clicked, the book is added to the Web Library.

Clicking the [Back button](http://i.imgur.com/GIwzmE2.png) redirects the user to homepage.

#### Use Case 4 (Search Book)

A book can be searched if the user clicks the [See](http://i.imgur.com/0cNHykb.png) button on homepage. After clicking it the user is redirected to the full list of books. There should be at most 3 books on each page of the list, but they can be less than 3 only on the last list page (if there are 11 books, the pages 1-3 should have 3 books each and page 4 should have 2).

User can write the name of the book in the in the upper left corner. Then choose search button. All books, which have the written word in the title appear in the list.

The books in the searched list are ordered by time of upload.

#### Use Case 5 (Delete Author\Book)

A book can be deleted only by the Admin. The Admin has to go to the homepage and click the [Delete button](http://i.imgur.com/cfp6wzw.png). The admin is redirected to the See Books list but with a [Delete option](http://i.imgur.com/F0t7C2I.png). After deleting the wanted book, the book should not be present in the list.

#### Use Case 6 (Logout)

The user can log out by clicking the [Log Out](http://i.imgur.com/ACO6yO3.png) text on Homepage, above the Please Choose an Option text. After clicking it, the user is redirected to the [Log In](http://i.imgur.com/3QQ6L0A.png) page.

### Test cases

All test cases which should be covered are included in Test\_Cases\_Web\_Library.xls.



### Technical requirements

#### Data Base

Database is MySQL.

#### Tables

The data in DB is stored in following tables:

* Users

|  |  |  |  |
| --- | --- | --- | --- |
| id | int(11) | NOT NULL | PRIMARY KEY |
| name | varchar(50) | NOT NULL |  |
| surname | varchar(50) | NOT NULL |  |
| family | varchar(50) | NOT NULL |  |
| email | varchar(50) | NOT NULL |  |
| username | varchar(50) | NOT NULL |  |
| password | varchar(50) | NOT NULL |  |

* Books

|  |  |  |  |
| --- | --- | --- | --- |
| id | int(11) | NOT NULL | PRIMARY KEY |
| title | varchar(50) | NOT NULL |  |
| author | varchar(50) | NOT NULL |  |
| pages | int(11) | NOT NULL |  |
| isbn | varchar(100) | NOT NULL |  |
| publish\_date | varchar(50) | NOT NULL |  |
| format | varchar(50) | NOT NULL |  |
| resume | text | NOT NULL |  |
| image | varchar(50) | NOT NULL |  |