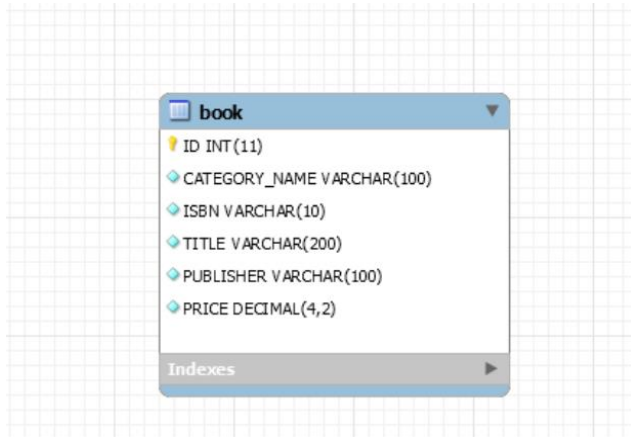


Spring MVC and Security

1. The program uses a databases named **mcvdb** I created with MySql server(**User : root and password:)**



2. I created my project using the source code of part2-assignment1 spring-mvc-webbapp-1 in which I added the securities features and the delete book functionality.
3. I created the folder **main\resources\META-INF\sql** where I put my **shema.sql** corresponding to my database shema and **test-data.sql** to insert some data; the select * from book shows the following result

```
mysql> select * from book;
```

ID	CATEGORY_NAME	ISBN	TITLE	PUBLISHER	PRICE
1	Java	21554HJH	Introduction to Java Programming	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
5	Php	54578899	Web Application using php	Jean Fournier	57.99
6	Php	756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql	85623333	Mysql for Nom Geeks	Abdoul cHERRYL	62.99
8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB64666	MVC 5 WITH .NET	John marcus	53.99
11	Java	3P0564666	Java with Netbeans	Henry korr	53.99
12	C#	3LOKN4666	vISUAL sTUDIO 2016 .NET	HERNANDEZ RUDDY	53.99

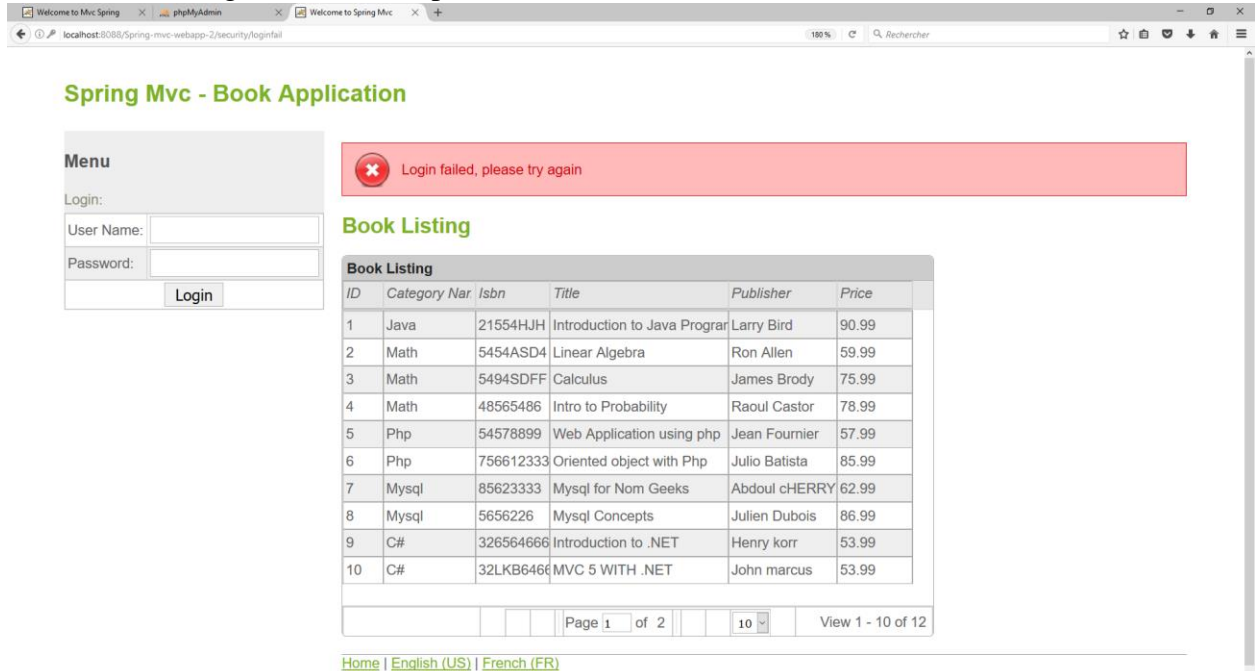
12 rows in set (0.02 sec)

4. Configuring the Spring-mvc-webbapp-2 security
 - I added a new Controller **SecurityController.java** in the controller package in which I handled the login fail.
 - I added the file **security-context.xml** in which I defined the authentication manager. I created a **username:user** and **password: user** for testing purpose.
 - I imported the **security-context.xml** into the **root-context.xml**.
5. Adding the Login functionality to the spring-mvc-webbapp-2 application
 - In the header.jspx , I make sure only a logged user can create a new book or see the **update book** or **Delete book**

- I used **user/user** as username/password for testing purpose
- I added the login form in the menu.jspx

After building and deploying My application, I tested the login functionality. Those are the result bellow:

- I entered a wrong username and password



- Now I entered the good username and password user/user and I don't see the login failure anymore and I have the welcome and logout link available.

Welcome to Mvc Spring x phpMyAdmin x Welcome to Spring Mvc x +

localhost:8080/Spring-mvc-webapp-2/security/login


Spring Mvc - Book Application

Menu

Login:

User Name:

Password:

 Login failed, please try again

Book Listing

ID	Category	Nar	Isbn	Title	Publisher	Price
1	Java		21554HJH	Introduction to Java Program	Larry Bird	90.99
2	Math		5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math		5494SDFF	Calculus	James Brody	75.99
4	Math		48565486	Intro to Probability	Raoul Castor	78.99
5	Php		54578899	Web Application using php	Jean Fournier	57.99
6	Php		756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql		85623333	Mysql for Nom Geeks	Abdoul cHERRY	62.99
8	Mysql		5656226	Mysql Concepts	Julien Dubois	86.99
9	C#		326564666	Introduction to .NET	Henry korr	53.99
10	C#		32LKB6466	MVC 5 WITH .NET	John marcus	53.99

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Welcome to Mvc Spring x phpMyAdmin x Welcome to Spring Mvc x +

localhost:8080/Spring-mvc-webapp-2/books

Spring Mvc - Book Application

Menu

[New Book](#)

Welcome user [Logout](#)

Book Listing

ID	Category	Nar	Isbn	Title	Publisher	Price
1	Java		21554HJH	Introduction to Java Program	Larry Bird	90.99
2	Math		5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math		5494SDFF	Calculus	James Brody	75.99
4	Math		48565486	Intro to Probability	Raoul Castor	78.99
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6	Php		756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql		85623333	Mysql for Nom Geeks	Abdoul cHERRY	62.99
8	Mysql		5656226	Mysql Concepts	Julien Dubois	86.99
9	C#		326564666	Introduction to .NET	Henry korr	53.99
10	C#		32LKB6466	MVC 5 WITH .NET	John marcus	53.99

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- After being logged in, I clicked the book with ID = 4 and got this Book Information dialog, I can see the **Update Book** and **Delete Book** link:

Welcome to Mvc Spring | phpMyAdmin | Welcome to Spring Mvc | +

localhost:8080/spring-mvc-webapp-2/books/4

100% | Rechercher

Welcome user
[Logout](#)

Spring Mvc - Book Application

Menu

New Book

Book Information

ID	4
Category Name	Math
Isbn	48565486
Title	Intro to Probability
Publisher	Raoul Castor
Price	78.99

[Edit Book](#) | [Delete Book](#)

[Home](#) | [English \(US\)](#) | [French \(FR\)](#)

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I can see the **Update Book** and **Delete Book** link:

- If I click the same book without getting logged in, I can't see the **Update Book** and **Delete Book** link:

Welcome to Mvc Spring | phpMyAdmin | Welcome to Mvc Spring | +

localhost:8080/spring-mvc-webapp-2

100% | Rechercher

Mvc Spring -Application du Livre

Menu

Login:

User Name:

Password:

Liste Des Livres

ID	Categorie	Isbn	Titre	Publicateur	Prix
1	Java	21554HJH	Introduction to Java Program	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
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8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB6466	MVC 5 WITH .NET	John marcus	53.99

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Mvc Spring -Application du Livre

Menu

Login:

User Name:

Password:

Login

Information du Livre

ID	4
Categorie	Math
Isbn	48565486
Titre	Intro to Probability
Publicateur	Raoul Castor
Prix	78.99

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- Now if I'm logged and I click the new book link , I can add a book .

Mvc Spring -Application du Livre

Bienvenue user
[Se Deconnecter](#)

Menu

Nouveau Livre

Ajouter Un Livre

ID

Categorie

Isbn *

Titre*

Publicateur

Prix*

Save

Reset

[Accueil](#) | [Anglais \(US\)](#) | [Français \(FR\)](#)


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Welcome to Mvc Spring -Application du Livre

Bienvenue user
[Se Deconnecter](#)

Menu

Nouveau Livre

 Livre Enregistré avec succes

Liste Des Livres

ID	Categorie	Isbn	Titre	Publicateur	Prix
1	Java	21554HJH	Introduction to Java Program	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
5	Php	54578899	Web Application using php	Jean Fournier	57.99
6	Php	756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql	85623333	Mysql for Nom Geeks	Abdoul cHERRY	62.99
8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB6466	MVC 5 WITH .NET	John marcus	53.99

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- I can see the new book inside the database

```
mysql> select * from book;
```

ID	CATEGORY_NAME	ISBN	TITLE	PUBLISHER	PRICE
1	Java	21554HJH	Introduction to Java Programming	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
5	Php	54578899	Web Application using php	Jean Fournier	57.99
6	Php	756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql	85623333	Mysql for Nom Geeks	Abdoul cHERRY	62.99
8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB64666	MVC 5 WITH .NET	John marcus	53.99
11	Java	3P0564666	Java with Netbeans	Henry korr	53.99
12	C#	3LOKN4666	vISUAL sTUDIO 2016 .NET	HERNANDEZ RUDDY	53.99
13	New category	15478744	New Book	New Publisher	45.68

13 rows in set (0.00 sec)

- I can also delete the book I just added.

I first select the book

Mvc Spring -Application du Livre

Bienvenue user
[Se Deconnecter](#)

Menu

Nouveau Livre

Information du Livre

ID	13
Categorie	New category
Isbn	15478744
Titre	New Book
Publicateur	New Publisher
Prix	45.68

[Modifier le Livre](#) | [Supprimer le Livre](#)

[Accueil](#) | [Anglais \(US\)](#) | [Français \(FR\)](#)

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When I click the delete Book link, I have the following result:

Mvc Spring -Application du Livre

Bienvenue user
[Se Deconnecter](#)

Menu

Nouveau Livre

Liste Des Livres

ID	Categorie	Isbn	Titre	Publicateur	Prix
11	Java	3PO56466	Java with Netbeans	Henry korr	53.99
12	C#	3LOKN466	viSUAL sTUDIO 2016 .NET	HERNANDEZ R	53.99

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And the book is not in the database anymore

```
mysql> select * from book;
```

ID	CATEGORY_NAME	ISBN	TITLE	PUBLISHER	PRICE
1	Java	21554HJH	Introduction to Java Programming	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
5	Php	54578899	Web Application using php	Jean Fournier	57.99
6	Php	756612333	Oriented object with Php	Julio Batista	85.99
7	Mysql	85623333	Mysql for Nom Geeks	Abdoul cHERRYL	62.99
8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB64666	MVC 5 WITH .NET	John marcus	53.99
11	Java	3P0564666	Java with Netbeans	Henry korr	53.99
12	C#	3LOKN4666	vISUAL sTUDIO 2016 .NET	HERNANDEZ RUDDY	53.99

```
12 rows in set (0.00 sec)
```

- Using Annotations to Secure Controller Methods
- url access :

I added the `<annotation-driven validator="validator"/>` and `<security:global-method-security pre-post-annotations="enabled"/>` in the `servelet-context.xml` and the annotation `@PreAuthorize("isAuthenticated()")` to the appropriate methods on the **BookController.java**,

I have the following result.

When I enter the URL <http://localhost:8088/spring-mvc-webapp-2/books?form> I have the following result

Mvc Spring -Application du Livre

Menu

Login:

User Name:

Password:

Liste Des Livres

ID	Categorie	Isbn	Titre	Publicateur	Prix
1	Java	21554HJH	Introduction to Java Progran	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
3	Math	5494SDFF	Calculus	James Brody	75.99
4	Math	48565486	Intro to Probability	Raoul Castor	78.99
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Mvc Spring -Application du Livre

Menu

Login:

User Name:

Password:

Login

Liste Des Livres

ID	Categorie	Isbn	Titre	Publicateur	Prix
1	Java	21554HJH	Introduction to Java Program	Larry Bird	90.99
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3	Math	5494SDFF	Calculus	James Brody	75.99
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TestBeans (DE 5.1)

I got redirected to the home login page.

- At anytime of the application, if I click the logout link, I got redirected to the home login page :

Mvc Spring -Application du Livre

Bienvenue user [Se Deconnecter](#)

Menu

Nouveau Livre

Ajouter Un Livre

ID

Categorie

Isbn *

Titre*

Publicateur

Prix*

Save Reset

[Accueil](#) | [Anglais \(US\)](#) | [Français \(FR\)](#)

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Mvc Spring -Application du Livre

Menu

Login:

User Name:

Password:

Liste Des Livres

Liste Des Livres					
ID	Categorie	Isbn	Titre	Publicateur	Prix
1	Java	21554HJH	Introduction to Java Program	Larry Bird	90.99
2	Math	5454ASD4	Linear Algebra	Ron Allen	59.99
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7	Mysql	85623333	Mysql for Nom Geeks	Abdoul CHERRY	62.99
8	Mysql	5656226	Mysql Concepts	Julien Dubois	86.99
9	C#	326564666	Introduction to .NET	Henry korr	53.99
10	C#	32LKB6466	MVC 5 WITH .NET	John marcus	53.99

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