

Document history

Version	Added by	Comment
pa1	Erika Mathisson	Initial draft

Summary

The purpose of this project is to implement a webshop for books. Users should be able to show and buy the products/books. A shopping cart will hold the information about the purchase during shopping. The webshop should be maintained by administrator. See requirement for detailed information.

Requirement specification

Functional requirements

1: User

Id	Prio	Title	Type of user	Description	Error/message handling	Dependency	Outcome
FR:1.1	High	Register user	Non-registered user	<p>A non-registered user should be able to register through link "Register" on the homepage. The non-registered user must provide the following:</p> <ul style="list-style-type: none"> - UserName: (minlength: 4, maxlength: 25, only letters: upper- and/or lowercase. Required. Unique.) - FirstName: (minlength: 4, maxlength: 25. Required.) - LastName: (minlength: 4, maxlength: 25. Required.) - Password: (minlength: 4, maxlength: 25. Required.) - ConfirmPassword: (minlength: 4, maxlength: 25. Required.) - Email: (minlength: 7, maxlength: 30, format: x.y@z.xx). Required. Unique.) - Address: (minlength: 4, maxlength: 25. Required.) - City: (minlength: 4, maxlength: 25. Required.) - ZipCode: (minlength: 5, maxlength: 10. Required.) - PhoneNumber: (minlength: 9, maxlength: 15. Required.) 	<p>Error message will be displayed when: None</p> <ul style="list-style-type: none"> * Not all required information is entered. * Information that needs to be unique aren't. * Format requirement aren't fulfilled. * User is already registered. * Password and ConfirmPassword doesn't match. 		Non-registered user is now a user with role "user" in the system. User is also logged into the system.
FR:1.2	High	Register admin	Non-registered user	The first user registered on the page according to dependency requirement will automatically get the role "admin".		FR:1.1 - Register user	Non-registered user is now a user with both role "admin" and "user" in the system. User is also logged into the system.
FR:1.3	High	Log in	User;Admin	<p>A registered user should be able to log in through link "Log in" on the homepage. Information that needs to be entered are:</p> <ul style="list-style-type: none"> -UserName -Password 	<p>Error message will be displayed when:</p> <ul style="list-style-type: none"> * Username and/or Password aren't correct 	FR:1.1 - Register user	User;Admin are logged in.
FR:1.4	High	Edit own information	User	<p>A registered user should have the ability to edit information about oneself. Information that can be edited:</p> <ul style="list-style-type: none"> - FirstName: (minlength: 4, maxlength: 25. Required.) - LastName: (minlength: 4, maxlength: 25. Required.) - Password: (minlength: 4, maxlength: 25. Required.) - ConfirmPassword: (minlength: 4, maxlength: 25. Required.) - Address: (minlength: 4, maxlength: 25. Required.) - City: (minlength: 4, maxlength: 25. Required.) - ZipCode: (minlength: 5, maxlength: 10. Required.) - PhoneNumber: (minlength: 9, maxlength: 15. Required.) 	<p>Error message will be displayed when:</p> <ul style="list-style-type: none"> * Not all required information is entered. * Format requirement aren't fulfilled. * Password and ConfirmPassword doesn't match. 	FR:1.3 - Log in	Information about user is updated.
FR:1.5	High	Edit user information	Admin	<p>A registered user with the role "admin" should have the ability to edit information about other users. Information that can be edited:</p> <ul style="list-style-type: none"> - FirstName: (minlength: 4, maxlength: 25. Required.) - LastName: (minlength: 4, maxlength: 25. Required.) - Password: (minlength: 4, maxlength: 25. Required.) - ConfirmPassword: (minlength: 4, maxlength: 25. Required.) - Address: (minlength: 4, maxlength: 25. Required.) - City: (minlength: 4, maxlength: 25. Required.) - ZipCode: (minlength: 5, maxlength: 10. Required.) - PhoneNumber: (minlength: 9, maxlength: 15. Required.) - Role: ("user" and/or "admin") 	<p>Error message will be displayed when:</p> <ul style="list-style-type: none"> * Not all required information is entered. * Format requirement aren't fulfilled. * Password and ConfirmPassword doesn't match. 	FR:1.3 - Log in	Information about user is updated.

2: Products/books							
Id	Prio	Title	Type of user	Description	Error/message handling	Dependency	Outcome
FR:2.1	High	Add product	Admin	A user with role "admin" should be able to add products/books to the database via the homepage. Information to be added are: - Title: (minlength: 1, maxlength: 40. Required.) - Author: (minlength: 1, maxlength: 40. Required.) - Description: (minlength: 5, maxlength: 100. Required.) - ISBN: (minlength: 10, maxlength: 13, number. Required.) - Price: (minlength: 1, maxlength: 13, number. Required.) - NumberInStock: (minlength: 1, maxlength: 10, number. Required.)	Error message will be displayed when: * Not all required information is entered. * Format requirement aren't fulfilled.	FR:1.3 - Log in	The book is added to the database and shown on the homepage.
FR:2.2	High	Edit product	Admin	A user with role "admin" should be able to edit products/books via the homepage. The updated book should be stored in the database. Information that can be updated are: - Title: (minlength: 1, maxlength: 40. Required.) - Author: (minlength: 1, maxlength: 40. Required.) - Description: (minlength: 5, maxlength: 100. Required.) - ISBN: (minlength: 10, maxlength: 13, number. Required.) - Price: (minlength: 1, maxlength: 13, number. Required.) - NumberInStock: (minlength: 1, maxlength: 10, number. Required.)	Error message will be displayed when: * Not all required information is entered. * Format requirement aren't fulfilled.	FR:1.3 - Log in	The book is updated in the database and shown on the homepage.
FR:2.3	High	View product/products	User	A user should be able to view all products that can be bought (parameter NumberInStock > 0) on the homepage. Information about product that should be listed are: - Title, Author, Description, ISBN, Price, NumberInStock.	Error message will be displayed when: * No products are available for purchase.	None	The available products are listed for the user.

3: Order							
Id	Prio	Title	Type of user	Description	Error/message handling	Dependency	Outcome
FR:3.1	High	Place order	User	A user should be able to place an order containing one or more products/books.	Message will be displayed when: * The order is placed ok.	FR:1.3 - Log in	The order is placed.
FR:3.2	High	Change order	Admin	A user with role "admin" should be able to change content in an order for a user.	Message will be displayed when: * The order is updated ok.	FR:1.3 - Log in	The order is updated.
FR:3.3	High	View shoppinghistory	User	A user should be able to view previous orders that are placed. The shoppinghistory should contain: - Orderdate, OrderId, Product/Products, Product price/prices.	Message will be displayed when: * No previous orders available.	FR:1.3 - Log in	Previous orders are listed for the user.

4: Cart							
Id	Prio	Title	Type of user	Description	Error/message handling	Dependency	Outcome
FR:4.1	High	Add to cart	User	A user should be able to add a listed product (product that have NumberInStock > 0) to the cart via a link "Add to cart". One product will be added to the cart when clicking the link. In order to add more than one product click on the link more than once.	Message will be displayed when: * A product is added to the shopping cart.	FR:1.3 - Log in	The chosen product is added to the cart.
FR:4.2	High	View cart	User	A user should be able to view the shopping cart when clicking on "Shopping cart", added products will be listed on the page.	Message will be displayed when: * The shopping cart doesn't contain any products.	FR:1.3 - Log in	The shopping cart and it's contents are shown for the user.
FR:4.3	High	Update cart	User	A user should be able to update the cart by chosing the "Shopping cart" and then change number of item for a chosen product.	Message will be displayed when: * The shopping cart has been updated.	FR:1.3 - Log in FR:4.2 - View cart	The shopping cart is updated according to users changes.
FR:4.4	High	Checkout	User	A user should be able to chose option "Go to Checkout" in the shopping cart. This option will be shown when the shopping cart contains one or more products.		FR:1.3 - Log in FR:4.2 - View cart	Checkout page will be shown for the user with information about the purchase.

FR:4.5	High	Print receipt	User	A user should be able to chose option "Print receipt" on "Confirmation checkout" - page.	FR:1.3 - Log in FR:4.2 - View cart FR:4.4 - Checkout	The receipt are shown for the user.

Non functional requirements

Design restrictions				
Id	Prio	Title	Type of user	Description
DR:1	High	AJAX through AngularJS	-	Use of AJAX through AngularJS to make sure that the web shop can be used without ever reloading the page.
DR:2	High	Partial	-	Use of Partial Views both with and without AJAX.
DR:3	High	Bootstrap	-	Bootstrap for the menus and overall site.
DR:4	High	CSS	-	Your own custom CSS classes, in addition to customizing bootstrap.
DR:5	High	Identity	-	ASP Identity implemented, with own management and admin pages.
DR:6	High	Roles	-	Use of roles and authorization.
DR:7	High	Database	-	Database for the web shop logic.

Webshop	Register/Edit	Log in/View orderhistory	Shopping Cart
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Main part – to be updated depending on functionality

Comment: menu will be displayed based on if user is logged in or not and if user is admin.

Log in

Username

Password

Register/Edit

Username: *

First name:

Last name:

Password:

Confirm password:

Email:

Address:

City:

Zip code:

Phone number:

Admin?: *

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Comment: Username will not be shown when "Edit". Only "admin" can add others to role "Admin?"

Add/Edit book

Title:

Author:

Description:

ISBN:

Price:

Number in stock:

Books

Title:		Author:	Description:	ISBN:	Price:	#in stock:	
C#	Mrs. X	Programming	1234567890	149 kr	4	Add to cart/Edit*	
Java	Mr. X	Programming	11114567890	199 kr	3	Add to cart/Edit*	

[Add book*](#) (if user has role "admin")

Cart

Title:	Author:	Description:	ISBN:	Price:	#in cart:	
C#	Mrs. X	Programming	1234567890	149 kr	<input type="text" value="1"/>	Delete
Java	Mr. X	Programming	11114567890	199 kr	<input type="text" value="1"/>	Delete

[Go to checkout:](#)

Comment: if the user is an admin link "Edit" and "Add book" will be shown.

Shopping history/Receipt

Order: id; date

Title:	Author:	Description:	ISBN:	Price:	#in cart:	
C#	Mrs. X	Programming	1234567890	149 kr	1	Delete* (if admin)
Java	Mr. X	Programming	11114567890	199 kr	1	Delete* (if admin)

Comment: if user is an admin option "Delete" will be shown if order hasn't been sent already.

Req. Id	Prio	Activity	Sprint					Sprint					Sprint					Sprint					Sprint	
			1					2					3					4					5	
			Dates					Dates					Dates					Dates					Dates	
			5/9	6/9	7/9	8/9	9/9	12/9	13/9	14/9	15/9	16/9	19/9	20/9	21/9	22/9	23/9	26/9	27/9	28/9	29/9	30/9	3/10	4/10
		Information about project	X																					
		Requirement specification, initial draft		X	X																			
		Time plan		X	X																			
		Database design		X	X																			
		Basic prototypes			X																			
		Setting up basic identity in project				X	X																	
		Setting up basic database in project				X	X																	
FR:1.1	High	Register user						X	X	X	X	X												
FR:1.2	High	Register admin						X	X	X	X	X												
FR:1.3	High	Log in						X	X	X	X	X												
FR:1.4	High	Edit own information						X	X	X	X	X												
FR:1.5	High	Edit user information						X	X	X	X	X												
FR:2.1	High	Add product						X	X	X	X	X												
FR:2.2	High	Edit product						X	X	X	X	X												
FR:2.3	High	View product/products						X	X	X	X	X												
FR:3.1	High	Place order																X	X	X	X	X		
FR:3.2	High	Change order																X	X	X	X	X		
FR:3.3	High	View shoppinghistory																X	X	X	X	X		
FR:4.1	High	Add to cart											X	X	X	X	X							
FR:4.2	High	View cart											X	X	X	X	X							
FR:4.3	High	Update cart											X	X	X	X	X							
FR:4.4	High	Checkout											X	X	X	X	X							
FR:4.5	High	Print receipt											X	X	X	X	X							

X = planned activity
Activity done
Activity delayed
Activity removed

AspNetRoles
Id *
Name

AspNetUserRoles
UserId
RoleId

AspNetUsers
Id *
Email
PhoneNumber
UserName
City
FirstName
LastName
PassWord

Order
Id *
OrderDate
UserId

OrderRows
Id *
OrderId
BookId
Price

Books
Id *
Title
Author
Description
ISBN
NumberInStock
Price

