

Web Application Programming

JavaScript and Front-End Frameworks

Course Project

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Project overview

You are modern JavaScript Web Developer!

Your task is to create “Online Shop” administration pages (only **Products** pages) with JavaScript and optionally some Front-End framework – you choose one of React, Vue.js or Angular or without Front-end Framework.

For web application development you can use any IDE, but probably the best is VS Code.

Expected Duration: 5-20 hours only.

“Online Shop” administration Web Application.

List of products.

We need to prepare a web page(s) where the first ‘Home’ page (**Products**) looks like:

Online Shop Admin

[Products](#) [Customers](#) [Orders](#) [Reports](#)

Products

Show filter

Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Road Frame - Black, 58	FR-R92B-58	Black	900.00	11 November 2021	Edit Delete
HL Road Frame - Red, 58	FR-R92R-58	Red	1,431.50	06 August 2021	Edit Delete
HL Road Frame - Red, 62	FR-R92R-62	Red	1,431.50	09 November 2021	Edit Delete
HL Road Frame - Red, 44	FR-R92R-44	Red	1,431.50	18 December 2021	Edit Delete
HL Road Frame - Red, 48	FR-R92R-48	Red	1,431.50	13 February 2022	Edit Delete
HL Road Frame - Red, 52	FR-R92R-52	Red	1,431.50	28 February 2022	Edit Delete
HL Road Frame - Red, 56	FR-R92R-56	Red	1,431.50	25 July 2022	Edit Delete
LL Road Frame - Black, 58	FR-R38B-58	Black	337.22	12 January 2022	Edit Delete
LL Road Frame - Black, 60	FR-R38B-60	Black	337.22	02 December 2021	Edit Delete
LL Road Frame - Black, 62	FR-R38B-62	Black	337.22	01 December 2021	Edit Delete

Create New Product

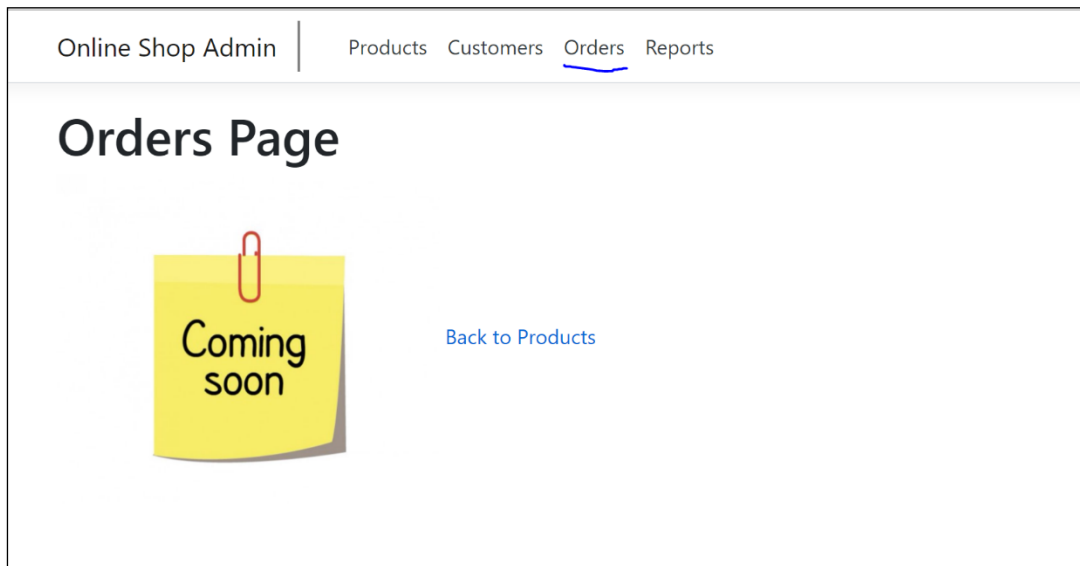
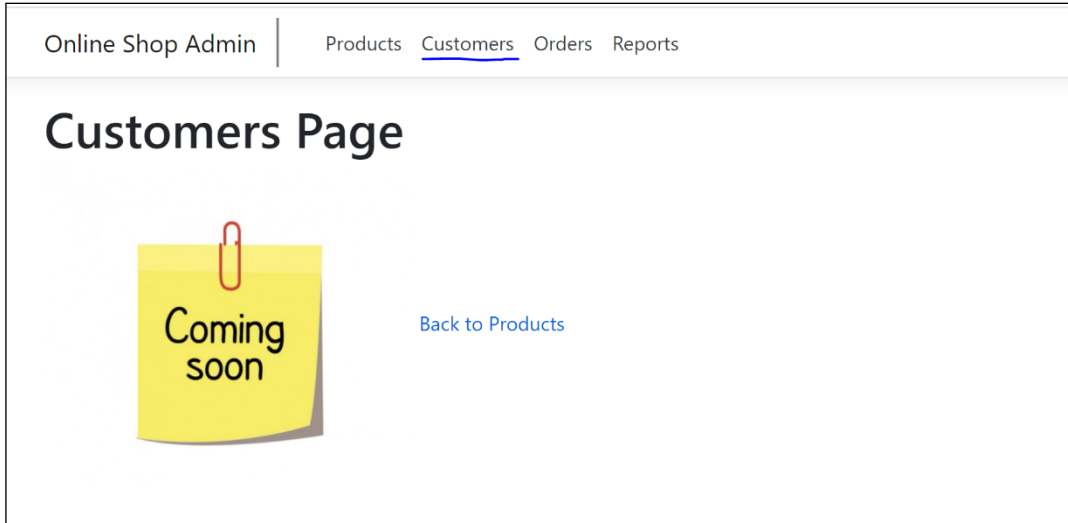
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Navigation.

We have 4 navigation links on top:

Products Customers Orders Reports

but only **Products** link is working for now. The other 3 links should display “Coming soon” page and should have one single link back to **Products** page.:



[Edit Product.](#)

When the user click 'Edit' button in Product List:

Products

Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Road Frame - Black, 58	FR-R92B-58	Black	900.00	11 January 2022	Edit Delete
HL Road Frame - Red, 58	FR-R92R-58	Red	1,431.50	04 January 2022	Edit Delete

then web application navigates to 'Edit' page:

Online Shop Admin
Products Customers Orders Reports

Edit Product

Name: HL Road Frame - Black, 58

Product Number: FR-R92B-58

Color: Black

Standard Cost: 1059.31

List Price: 900.00

Size: 58

Weight: 1016.04

Sell Start Date: 20/11/2022 00:00

Save Back to List Delete

Note that some fields require validation, like:

Online Shop Admin
Products Customers Orders Reports

Edit Product

Name:

The Name field is required.

Product Number:

The ProductNumber field is required.

Color:

Standard Cost:

List Price:

The field ListPrice must be between 0.1 and 10000.

Size:

Weight:

Sell Start Date:

Create a new Product.

When the user clicks **Create New Product** button (at the bottom of **Products** page):

LL Road Frame - Black, 60	FR-R38B-60	Black	337.22	03 March 2022	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
LL Road Frame - Black, 62	FR-R38B-62	Black	337.22	01 June 2022	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

then the User goes/is navigated to 'Create a New Product' page:

Online Shop Admin
Products Customers Orders Reports

Create a new Product

Name:
The Name field is required.

Product Number:
The ProductNumber field is required.

Color:

Standard Cost:

List Price:
The field ListPrice must be between 0.1 and 10000.

Size:

Weight:

Sell Start Date:

Save Back to List Cancel

Delete a Product.

Last page is **Confirm Deletion** page. It is displayed when the **Delete** button for specific product is clicked:

Products					
Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Road Frame - Black, 58	FR-R92B-58	Black	900.00	24 January 2022	Edit Delete
HL Road Frame - Red, 58	FR-R92R-58	Red	1,431.50	14 October 2021	Edit Delete
HL Road Frame - Red, 62	FR-R92R-62	Red	1,431.50	25 September 2021	Edit Delete
HL Road Frame - Red, 44	FR-R92R-44	Red	1,431.50	17 July 2022	Edit Delete

then the 'Confirm Delete Product' page is shown:

Online Shop Admin
Products Customers Orders Reports

Confirm Delete Product

Are you sure you want to delete the next product?

ProductId: 680
Name: HL Road Frame - Black, 58
ProductNumber: FR-R92B-58
Color: Black
StandardCost: 1059.31
ListPrice: 900.00
Size: 58
Weight: 1016.04
ProductCategoryId: 18
6
01/06/2002 00:00:00
11/03/2008 10:01:36

ProductModelId:
SellStartDate:
ModifiedDate:

Delete the Product!
Cancel - Back to List

Filtering Products.

The user can filter the product using the **Show Filter** button (top-right corner):

Online Shop Admin
Products Customers Orders Reports

Products

Show Filter

Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Road Frame - Black, 58	FR-R92B-58	Black	900.00	20 July 2021	Edit Delete
HL Road Frame - Red, 58	FR-R92R-58	Red	1,431.50	01 July 2022	Edit Delete

After the button is clicked, three input fields should appear, as shown below:

Products

[Hide Filter](#)

 Name: and Price between: and [Apply](#)

Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Road Frame - Black, 58	FR-R92B-58	Black	900.00	20 July 2021	Edit Delete
HL Road Frame - Red, 58	FR-R92R-58	Red	1,431.50	01 July 2022	Edit Delete
HL Road Frame - Red, 62	FR-R92R-62	Red	1,431.50	13 February 2022	Edit Delete
HL Road Frame - Red, 44	FR-R92R-44	Red	1,431.50	10 August 2021	Edit Delete
HL Road Frame - Red, 48	FR-R92R-48	Red	1,431.50	08 February 2022	Edit Delete

The **Show Filter** button should change to **Hide Filter** as shown above!

After **Apply** button is clicked, only the filtered products (according to the values in input fields) should be displayed in the table of products, for example:

 Online Shop Admin | [Products](#) [Customers](#) [Orders](#) [Reports](#)

Products

[Hide Filter](#)

 Name: and Price between: and [Apply](#)

Product Name	Product Number	Color	List Price	Modified Date	Actions
HL Mountain Frame - Silver, 42	FR-M94S-42	Silver	1,364.50	16 August 2022	Edit Delete
HL Mountain Frame - Silver, 44	FR-M94S-44	Silver	1,364.50	21 May 2022	Edit Delete
HL Mountain Frame - Silver, 48	FR-M94S-52	Silver	1,364.50	24 November 2021	Edit Delete
HL Mountain Frame - Silver, 46	FR-M94S-46	Silver	1,364.50	13 July 2022	Edit Delete
HL Mountain Frame - Black, 42	FR-M94B-42	Black	1,349.60	30 October 2021	Edit Delete
HL Mountain Frame - Black, 44	FR-M94B-44	Black	1,349.60	06 October 2021	Edit Delete
HL Mountain Frame - Black, 48	FR-M94B-48	Black	1,349.60	21 April 2022	Edit Delete
HL Mountain Frame - Black, 46	FR-M94B-46	Black	1,349.60	03 August 2022	Edit Delete
HL Mountain Frame - Black, 38	FR-M94B-38	Black	1,349.60	24 October 2021	Edit Delete
HL Mountain Frame - Silver, 38	FR-M94S-38	Silver	1,364.50	06 October 2021	Edit Delete