

Lab Contents:

- DataSet
- DataTable
- Different HTML tags and attributes

Objective:

- To practice how to manipulate data in-memory by the use of DataSet, DataTable.
- Create a **homepage** for a food delivery app using HTML semantic tags to organize content effectively and enhance accessibility.
- Signup form
- Login form
- Order Form

Happy Learning!

Task 1

You are a developer and working in a software house. Software house won a project. This project is about making an E-Commerce site that allows user to buy and sell different products. From this project, you are assigned a small task. You are required to implement the functionality that manages orders on this E-Commerce site.

An order can contain multiple products and one product can be present in many orders. So there will be a many to many relationship between Order and Product tables. The attributes for the order are OrderId, CreatedAt and Products. The attributes for Product are ProductId, ProductName, ProductDescription, ProductPrice. To model a many to many relationship, you are required to make a separate junction table that contains primary keys of Order and Product tables.

Table Name	Product	Order	ProductOrder
Attributes	ProductId	OrderId	OrderId
	Name	CreatedAt	ProductId
	Desc		
	Price		

ProductId is the primary key for Product table. Its type is int and is auto-incremented.

OrderId is the primary key for the Order table. Its type is int and is auto-incremented.

OrderId and ProductId make the composite primary key for the ProductOrder table.

- You are required to make the above mentioned three tables. Add these DataTables in a DataSet.
- Insert 5 to 10 Products and 3 to 5 Orders in the above tables.
- Given a ProductId, the primary key for Product table, display the matching Product with its attributes.
- Given an OrderId, you are required to display the name of products that are present in that order.
- Given a date, you are required to display the OrderId for those orders that are made after that date.

Task 2

a) -Home Page Scenario:

You have been tasked with designing the homepage for a new food delivery app called "**FoodieXpress.**" The app aims to provide users with a seamless experience for ordering their favorite food items from local restaurants.

Header Section:

Include the app logo and name.

Create a navigation menu to navigate to the "About," "Menu," and "Contact" sections within the page, also for login and signup forms.

About Us Section:

Define the "About Us" section.

Include a brief description of the app's purpose and mission.

Use the aside tag to provide a quote or testimonial related to the app's concept.

Menu Section:

Define the "Menu" section.

Display at least three food items.

Use the <article> tag to represent each food item, including its name and description. Present the descriptions of food items in a bulleted format.

Include an image for each food item using the <figure> tag, along with a caption using the <figcaption> tag.

Items images

Add 3 to 4 images of foods.

Items names:

A paragraph about the food delivery app's current services)

Add 7 to 8 names of different food items, that customers can order, in an ordered list format.

Footer Section:

Define the footer section.

Include copyright information and any necessary disclaimers.

b) -Signup form:

Design a signup form where users can register for the food delivery app. Include input fields for name, email, and password. Make sure all three fields are necessary. If the signup is successful, redirect the user to the login page.

c) -Login form:

Design a login form. Include required input fields for email, and password. If the login is successful, redirect the user to the home page.

d) **-Order**

Design the order form. Include the input fields like Name, phone number, Address, City, State, Country, Order Details as text description, and Payment method (By card, on delivery).

```
while (not succeed) {  
    try( );  
}
```

Learning Resources:

1. If you want to select some rows of a table based on a condition, you can refer to [this](#) link.
2. If you want to get a row based on a primary key, you can refer to [this](#) link.
3. To learn about basic HTML, you can visit w3Schools and [this](#) link.