

Diploma in Multimedia & Infocomm Technology **EGL219 Web Application Development Framework**

Project Part 1: Create a Fruits Ordering System

Objectives:

At the end of part 1 of the project, you will have created a new MVC application, with a layout page, database and Views to view and search Fruits and Fruit Categories on the Fruits Ordering System (FOS).

Marks to be awarded:

10% of total module marks.

Bonus:

Additional 1% of total module marks if the layout is responsive. The bonus is only valid if you submit on time.

Submission:

- 1. Ensure that your web application can run in Edge, Firefox or Chrome browser.
- 2. Zip your web application and database file.
- 3. Name the file FOS_P1_adminNo.zip (e.g., FOS_P1_12345A_.zip).
- 4. Demonstrate your project and submit your work on Blackboard by 17 Dec 2021, Friday.
- 5. Late submission will result in the deduction of marks based on the following scale:

Late Submission past due date	Marks deducted		
1 Day	20%		
2 Days	40%		
3 Days	60%		
4 Days	80%		
> 4 Days	100%		

This means that if you submit your file 5 days after your due date, you will get **ZERO** marks for this part of the project.

Instructions:

- 1. Create a new ASP.NET Core MVC web application called FOS_M#_adminNo, e.g., FOS_M1_123456A, where M# refers to your EGL219 Module Group.
- 2. Design a Layout page such that it is similar to the following layout:

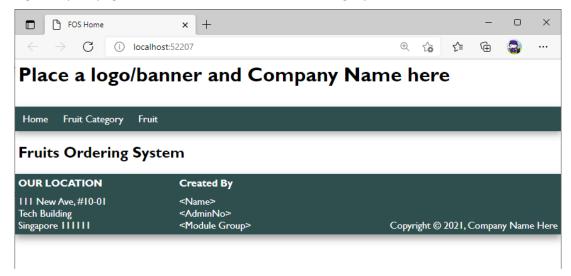


Figure 1

You are free to design the layout and color as long as the following criteria is fulfilled:

- a. You need to use HTML5 and CSS3 ONLY (EGL144 Web Development).
- b. Replace the Header text with a suitable Company Logo and Company Name.
- c. The navigation bar has dropdown menu created using CSS (Refer to example URL: https://www.w3schools.com/css/css dropdowns.asp).



Figure 2

- d. You include your Name, Admin No and EGL219 Module Group in the footer.
- e. The year displayed in the footer uses the DateTime object.
- f. You are free to update the location details.

3. Add a Home controller with the Index action method that will display the following view when your application starts up.



Figure 3

- 4. Add a new database to your FOS project called FruitsOrderDB.
- 5. Add a table called FruitCategory
 - a. FruitCategory table should have the following columns: Id, Name and Description.

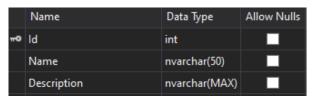


Figure 4

- b. Set Id IsIdentity to true.
- c. Enter the following data in the table.

ld	Name	Description
1	Berry	Has many seeds eg tomatoes, peppers and cucumber but not strawberries!
2	Drupe	Has fleshy fruit and a single seed with a hard endocarp eg peaches, coconut and olives
3	Nuts	Have one seed and a hard pericarp eg acorns
4	Pome	Most of the fruit is formed from the receptacle (under the flower) eg pear, apple

Figure 5

- 6. Add a table called Fruit.
 - a. Fruit table should have the following columns: Id, Name, Country, Price, UnitOfMeasurement and FruitCategoryId.

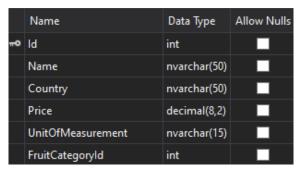


Figure 6

- b. Set Id IsIdentity to true.
- c. FruitCategoryId is a foreign key to the Id in the FruitCategory table.
- d. Enter the following data in the table

ld	Name	Country	Price	UnitOfMeasur	FruitCategoryld
1	Cherry	Australia	30.00	KG	1
2	Peach	Japan	15.00	EACH	2
3	Pear	China	5.00	BAG	4

- 7. Add a FruitCategory controller that will display the following views.
 - a. The Index view displays the data in the FruitCategory table:

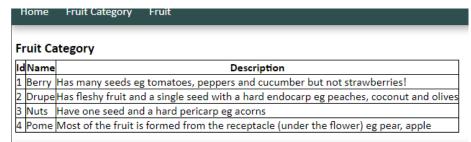


Figure 8

b. The SearchFruitCategory view retrieves and display data based on the Name from the FruitCategory table.

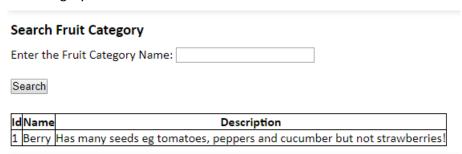


Figure 9

c. The AddFruitCategory view displays the following:



Figure 10

- 8. Add a Fruit controller that will display the following views.
 - a. The Index view displays the data in the Fruits table. Take note to display the name of the fruit category and not the FruitCategoryId.



Figure 11

b. The SearchFruit view retrieves and display data based on the fruit category from the Fruit table.

Search Fruit Enter the Fruit Category Name: Berry Search Id Name Category Country Price Unit Of Measurement 1 Cherry Berry Australia 30.00 KG

Figure 12

c. The AddFruit view displays the following:



9. For each of the views, give them appropriate titles that will display in the browser tabs. E.g.:

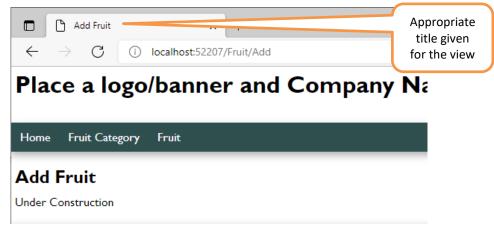


Figure 14

- 10. Link your navigation menu to the views.
- 11. Save your project.