

GRADUATE SCHOOL OF SCIENCE AND ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGIES IMPLEMENTING WEB APPLICATIONS FOR BUSINESS 2020 – 2021 FALL MIDTERM EXAM ASSIST. PROF. DR. SAHİN AYDIN

ViewModel mi?

## Case Study:

Developing a Web-Based E-Commerce Application Using ASP.NET MVC

Begin Date: 16:00 PM Friday, November 27

Due Date : 16:00 PM Tuesday, December 1

## 1. (Designing Layout Page)

Please create a layout page which includes common user interface elements using the CSS, JS, HTML and images files which are provided into "Assets" folder to design your e-commerce web application. You will see three different pages such as "index.html", "details.html", and "contact.html" in the "Assets" folder. These pages are the sample ones to utilize for you.

## 2. (Creating Models and View Models)

Please create three different models such as "*Products*", "*Categories*", and "*Suppliers*" using Entity Framework Code-First workflow. Figure 1 demonstrates the model diagram. In addition, please create the account models for building authentication and authorization mechanism of the application. (*Notice that you are supposed to use membership provider*.)

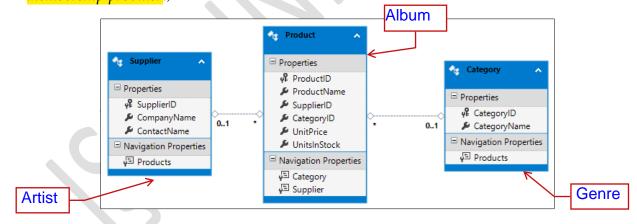


Figure 1. Model Diagram

Please design and create the needed view models for the project.

- Midterm Project -

HTML Template
Multiple (!) Tables
Code First
Membership Provider
M+V+C

- Midterm Project -

Multiple (!) Tables Code First

MusicStore = WebStore (Midterm)
Category = Genre
Supplier = Artist
Product = Album

## 3. (Creating Controllers and Actions)

Please create six different controllers named "Home", "Product", "Category", "Supplier", "Account" and "ShoppingCartController" respectively. Table 1 shows that which controller includes which actions.

Table 1. Controllers and Actions

Controller	Action	De	finition
Home	Index	•	Shows last six products in the "Latest Products" section of the page. ( <i>Examine "index.html" page.</i> )  Shows three random products in the "Recommended Products" section of the page.
Product	Index	•	Lists all products
(Use MVC <mark>Scaffolding</mark> )	Create	•	Allows users to add new product
(Unauthorized users	Delete	•	Allows users to remove a product from database
cannot access these views.)	Details	•	Allows users to show details of an existing product
(Only users whose <mark>role</mark> is	Edit	•	Allows users to update an existing product
"Administrator" can access these views.)	ProductDetails	•	Allows users to show details of an existing product when they click the "details" hyperlink. In addition, when a product is displayed, users can
			add this product to their carts using
		_ \	button. (The user should be redirected to the
			product details page. Notice that the view should
			be the same with "details.html". You don't need to
			display any product in the "Similar products"
0.1	C i M		section of the details page.)
Category	CategoryMenu	•	A partial view to display all categories within the category menu for "Layout" page.
	ProductsByCategory	•	Lists all products by its category when users
			selected anyone of the categories in the menu
Supplier	SupplierMenu	•	A partial view to display all suppliers within the
	SupplierMenu  • A partial view to display a supplier menu for "Layout"	supplier menu for " <mark>Layout</mark> " page.	
	ProductsBySupplier	•	Lists all products by its supplier when users
			selected anyone of the suppliers in the menu
Account	LogOn	•	Allows users to login the system
	LogOff	•	Allows users to logout the system
	Register	•	Allows users to create new account in the system
	ChangePassword	•	Allows users to change their passwords
	ChangePasswordSuccess	•	Displays a success message when a user changed
		_	his/her password successfully
ShoppingCartController	Index	•	Please use the sample in MVC Music Store
	AddToCart		Application which has been implemented in the
	RemoveFromCart		course
	CartSummary (The total		
	number of added products		
	and the total price should be		
	displayed in the "Shopping		
		section of the	
	" <mark>Layout</mark> " page.)		
CheckoutController	AddressAndPayment Complete	•	Please use the sample in MVC Music Store Application which has been implemented in the course