

GEMINI MEDIA

.NET Developer

Workshop

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Goals:

To build an Ecommerce sample website, updated via administration backend.

The website supports many categories (Fashion, electronics, etc..) each category can have sub Categories.

Product can be assigned to multiple category

The website supports product packages which will contain multiple products & price

Estimated Workshop Time:

3 Days

Tools:

1. Visual Studio 2022
2. SQL Server 2016 or higher

Requirements:

1. **Database** structure (using MS SQL)
2. **Administration:** Create a **web site** with the following:
 - A page to Manage categories with the below actions: update, delete -
A page for Insert/edit category with the below fields:
 - i. Name
 - ii. Description
 - iii. Parent category iv. Image (file uploader)
 - A page to Manage Product with the below actions: update, delete -
A page for Insert/ edit Product with the below fields:
 - i. Name
 - ii. Description
 - iii. Multiple Images (file uploader) iv. Video (YouTube embed) (optional)
 - v. Category (multi Assign)
 - vi. Price
 - vii. Display Date (date picker).
 - viii. SKU : Auto generated From Database side on inserting new product ex: "Prod-1,Prod-2"
 - A page to Manage Bundles with the below actions: update, delete -
A page for Insert/ edit Bundles with the below fields:
 - i. Name
 - ii. Description
 - iii. Category (multi Assign) iv. Price
 - v. Discount (%)
 - vi. Products (multi Assign)

3. **Front end: web site:**

contains the below pages:

- A page contains List of Products, filter by Category (Ajax)
- A page to search in Products with paging support by
 - Name, Description (in one field)
- A page contains product details:
 - i. Display product details
 - ii. View the price before & after discount if exist
 - iii. Video if exist iv. Display category/categories
 - v. **Social media share** controls on this page (Facebook like, Twitter tweet button) to share this news item.
- Product Package list & details page are not mandatory to implement

4. **Web API :**

- Api Node to return Last x Latest Product

Optional Requirements:

(These requirements, if implemented, will help us understand your technical capabilities in the areas below. Please see rules below)

1. DB can be called using (any ORM or ADO.NET) technology you find suitable to be used
2. It's preferable to use at least one Stored procedure & create Index on a table.
3. Product Image Album, create a album **per product** (each product contains an album for it to be displayed in product details page).
4. Login page in the admin site: make sure Administration pages under login if applied
5. Make Any page Api based "Api Reads from the database, frontend should read from it"

Rules:

- **It is mandatory to choose 2 options from the optional requirements**
- Use multitier programming
- Use At Least 1 design pattern (The most suitable from your point of view) - Development using .NET 6.
- **Graphic Design is not required.**
- A simple documentation for project about technologies used and how to install and run the project.
- Using any AI tools is prohibited.
- You should commit to the time frame of the workshop. In case of failure of submission within the timeframe, your workshop will be disregarded. The sooner the better.
- If you did not finish in the time frame, try to send what was done to be evaluated.

Good Luck