

Assignment

1. Software Installation

- Visual Studio Community Edition - <https://visualstudio.microsoft.com/downloads/>
- SQL Server Express edition - <https://www.microsoft.com/en-in/sql-server/sql-server-editions-express>

2. Tutorial & Practical

- Go through the articles available on https://www.tutorialspoint.com/asp.net_mvc/
- Create work samples explained in the below articles using Visual Studio & SQL Server
 - ASP.NET MVC - Home
 - ASP.NET MVC - Overview
 - ASP.NET MVC - Pattern
 - ASP.NET MVC - Environment Setup
 - ASP.NET MVC - Getting Started
 - ASP.NET MVC - Life Cycle
 - ASP.NET MVC - Routing
 - ASP.NET MVC - Controllers
 - ASP.NET MVC - Actions
 - ASP.NET MVC - Filters
 - ASP.NET MVC - Selectors
 - ASP.NET MVC - Views
 - ASP.NET MVC - Data Model
 - ASP.NET MVC - Helpers
 - ASP.NET MVC - Model Binding
 - ASP.NET MVC - Databases
 - ASP.NET MVC - Validation
 - ASP.NET MVC - Security
 - ASP.NET MVC - Caching
 - ASP.NET MVC - Razor
 - ASP.NET MVC - Data Annotations
 - Nuget Package Management
 - ASP.NET MVC - Web API
 - ASP.NET MVC - Scaffolding
 - ASP.NET MVC - Bootstrap
 - ASP.NET MVC - Unit Testing
 - ASP.NET MVC - Deployment
 - ASP.NET MVC - Self-hosting

3. MVC Assignment

- It is important to complete [2. Tutorial & Practical] first before you start working on this assignment
- Create a small project on Product Management

3.1 Technology

- ASP.NET MVC, Web API, Entity Framework, SQL Server, Bootstrap

3.2 Other points to consider

- Use client-side and server-side validations
- Exception Handling
- Error Logging in Error Log file

- Code commenting
- Uniformity in coding standards
- Unit Tested Code (Ref: https://www.tutorialspoint.com/asp.net_mvc/asp.net_mvc_unit_testing.htm)

3.3 Feature List

3.3.1 Login Screen

- Email ID *: <TEXT BOX>
- Password *: <TEXT BOX>
- Submit: <BUTTON>

3.3.2 Home Screen

- Will come after user successful login
- Top menu should have Logout link
- Left menu should have the following links
 - Product List
 - Add Product
- Middle section should have Welcome xyz message (Here xyz is the logged-in user name)

3.3.3 Product List Screen

- Will come when user clicks on Product List link from left menu
- List should have Product Small Image, Category Name, Product Name, Price and Short Description, Edit / Delete links
- Has features to Delete (single / multiple product records), Sorting on Product Name & Category Name, Search by Product title or project category, Advanced Search (fields as per your choice), and Paging at bottom of the Product list
- User should get a nice-looking notification at the end of the operation e.g. after deleting a product record, user should get a message xxx product is deleted in some nice format

3.3.4 Product Add / Edit Screens

- Product Add screen will come when user clicks on Add Product link from left menu
- Product List screen will come when user clicks on Edit link on any product record from Product List screen
 - Name *: <TEXT BOX>
 - Category *: <DROP DOWN>
 - Price *: <TEXT BOX>
 - Quantity *: <DROPDOWN>
 - Short Description *: <TEXT AREA>
 - Long Description: <TEXT AREA>
 - Small Image *: <FILE><UPLOAD>
 - Large Image: <FILE><UPLOAD>
 - Submit: <BUTTON>
 - Cancel: <BUTTON>