



Asp .Net Programming

Section 1

- **Environment Setup, Project Layout and Configuration , HelloWorld App**
- **MVC Pattern and ASP.NET**
- **Model, Views, Controllers**
- **Dependency Injection**
- **Razor Syntax - Tag Helper , Forms, Areas, Filters, View Components, Verbs**
- **Entity Framework Core**
- **Introduction, DbContext Configuration and Initialization**
- **Create Model, Manage DB Schema, Query and save Data, Change Tracking**
- **MS SQL Server Data Provider**
- **ASP.NET Web API**
- **Json Concepts, HTTP Protocol**
- **REST API with ASP.NET Core**
- **WebAPI Controller**
- **CRUD operations with Rest API**
- **ASP.NET Authentication and authorization**

1. Set up a new ASP.NET MVC project and create a simple registration form with validation using Razor syntax.
 2. Create a blog application with ASP.NET MVC where users can create, read, update, and delete blog posts.
 3. Implement a shopping cart functionality in an ASP.NET MVC, allowing using sessions or cookies.
 4. Build a contact management system using ASP.NET MVC, allowing users to add, view, edit, and delete contacts.
 5. Develop a task management application with ASP.NET MVC, enabling users to create, assign, and track tasks.
 6. Create an employee management system with ASP.NET MVC, allowing administrators to manage employee data.
 7. Build movie review website using ASP.NET MVC, where users can rate and review movies.
 8. Implement a file upload feature in an ASP.NET MVC application, allowing users to upload and store files.
 9. Develop a real-time chat application using SignalR in ASP.NET MVC, enabling users to chat with each other.
 10. Create a blog API with ASP.NET Web API, allowing users to consume and interact with blog data through API endpoints.
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11. Build a RESTful API for a bookstore using ASP.NET Web API, enabling CRUD operations on books.

12. Develop a secure authentication system with ASP.NET MVC, allowing users to register, log in, and log out.
13. Implement role-based authorization in an ASP.NET MVC application, allowing different levels of access based on user roles.
14. Create an Online quiz application using ASP.NET MVC, where users can take quizzes and view their scores.
15. Build a social media application with ASP.NET MVC, allowing users to create profiles, make posts, and connect with others.
16. Develop a customer relationship management (CRM) system using ASP.NET MVC, enabling businesses to manage customer data.
17. Implement a file download feature in an ASP.NET MVC application, allowing users to download files from the server.
18. Create weather forecast application using ASP.NET MVC, retrieving data from a weather API and displaying forecasts.
19. Build a ticket reservation system with ASP.NET MVC, allowing users to search for and book tickets for events.
20. Develop a content management system (CMS) using ASP.NET MVC, enabling administrators to create, manage, and publish content.