

WEEK 1 : Web Application

1. Website vs Web Application

- Understand the difference between a website and a web application.
- Identify use cases for each.

2. HTML, CSS, and JavaScript

- Learn HTML structure and elements.
- Learn CSS for styling and layout.
- Learn JavaScript for interactivity and DOM manipulation.

3. Bootstrap for Responsive, Mobile-First Web Development

- Use the Bootstrap grid system for responsive design.
- Utilize Bootstrap components like navigation bars, modals, and buttons.

4. Client-Side vs Server-Side

- Understand client-side operations (HTML, CSS, JavaScript).
- Learn server-side scripting and its role (ASP.NET, C#).
- Know when to use client-side vs server-side technologies.

5. Choose Template as Per Requirement

- Select appropriate templates based on project specifications.
- Customize templates as needed.

6. Use Template Components as Per Requirement

- Integrate template components like headers, footers, and content sections.

7. Identify and Integrate Header, Body, Footer, etc.

- Understand basic webpage layout.
- Integrate essential components: header, body, footer.

8. ASP.NET Web Application Development

- Create an ASP.NET web application in Visual Studio.
- Explore Web.config for application settings.

9. Integrate Template into ASP.NET Application

- Incorporate HTML, CSS, and JavaScript templates into ASP.NET.
- Ensure proper rendering of static and dynamic content.

10. Explore Web Form Controls

- Understand ASP.NET Web Forms controls: TextBox, Button, GridView, etc.
- Learn server-side state management (ViewState, Session).

11. Explore Events in Web Forms

- Handle user events (Button Click, TextBox Change).
- Connect events to back-end logic.

12. Get Started with Entity Framework

- Understand ORM and Entity Framework setup.
- Configure Entity Framework in ASP.NET.

13. CRUD Operations Using Entity Framework

- Perform CRUD operations using Entity Framework with SQL Server.
- Use LINQ to query and manipulate data in the database.