Custom Web Application

Day:1

Entity Framework core

Getting Started with Entity Framework Core in ASP.NET Core – Entities, DbContext, Configuration

Configuring Nonrelational Properties in EF Core

Migrations and Seeding Data with Entity Framework Core in ASP.NET Core

Entity Framework Core Relationships – Convention, Data Annotations and Fluent API

Querying the Database with EntityFrameworkCore in ASP.NET Core

Modifying Database – Insert, Update and Delete with Entity Framework Core

**Day 2 & 3**

ASP.NET Core Web API

Introduction & Environment Setup ASP.NET core Web API.

Middleware in ASP.NET Core Web API

Run, Use, and Next Method in ASP.NET Core

Map Method in ASP.NET Core

Custom Middleware in ASP.NET Core

Demonstrate creation of a simple WebAPI - With Read, Write actions.

Structure of a web api - Controller & its inheritance from ApiController, Action verbs, Action method

Explain the types of Configuration files of WebAPI

Demonstrate the usage of Postman tool to hit WebAPI methods

Structure in Postman tool, Headers with Authorization, Body as JSON, Option to choose the type of request, Request collection and how to add a new request in the collection, Tabs in the center pane that corresponds to the request

Demonstrate the usage of Route and Explain Name attribute in Http requests

Demonstrate creation of an Action method to return list of custom class entity

Model class creation, Use AllowAnonymous attribute, Use HttpGet action method

Demonstrate Custom filter

Usage of ActionFilterAttribute, OnActionExecuting method to intercept the request

Tesing using Nunit and MOQ framework.

**Day 4**

Testing using Nunit and Xunit using MOQ framework

Doubt clearing Session of all the above session (or) Practice session

**Software Requirements:**

Visual studio 2019

MS SQL Server 2014 and above

Node js

NPM

**Hardware Requirement**:

Minimum 8 GG RAM with SSD or same configuration in any cloud environment (VM).

**Prerequisite:**

Basic knowledge of JavaScript, oops concept in C#.Net