

**#Learn\_from\_Home**

## **Web Application Development using Asp.Net Core**

Course Code: LFH/DOTNET/03

Duration: 25 hours

**Course Syllabus**

### **INTRODUCTION**

This industry oriented course is developed by both the Software development division & Training division of **ipsr solutions limited**. IPSR is a **public limited IT company** with 20 years of expertise in [Software product development](#), [Training services](#), [Placement services](#) & [Digital Marketing services](#). During the past 2 decades, IPSR has trained candidates from **50+ countries** and helped **40000+ candidates** to build their IT career. Our IT services division is a pioneer in development of **Academic solution products**, incorporating cutting edge technologies like Artificial Intelligence, Data Analytics and Machine learning. Live industry experts from this IT division contribute a major role in delivering this course. Our placement division is having **1500+ placement tie-up companies** and we are conducting [recruitment on all days](#).

The Course curriculum is designed and developed by a team of expertise panel lead by following academicians

- ❑ **Dr. Mendus Jacob, M.Sc., M.Phil., Ph.D., MloD**
  - ❑ M.D & C.E.O - IPSR & Valin Technologies, U.K.
  - ❑ Director - MCA, Marian College, Kuttikkanam (Autonomous)
  - ❑ Former Director of School of Applicable Mathematics, M.G. University.
  - ❑ Academician and Entrepreneur with 30+ years experience
- ❑ **Dr. Sunil Job K.A, M.Sc, M.Ed, M.Phil, Ph.D., RHCE**
  - ❑ Chief of Academic Solutions - IPSR
  - ❑ Former college Principal and a Specialist in Data Analytics & Machine Learning
  - ❑ Blogger and a Resource person for National conferences
  - ❑ Academician with 25+ years experience

## What you'll learn

✓ MVC Architecture, Entity Framework, Razor View Engine, Ajax Jquery, Code first Approach.

## Description

This course cover MVC architecture, how to use strongly typed models in your views; how to build models with Entity Framework; and how to create your own custom validation attributes and develop dynamic applications in Code First Approach.

## Course Outcome (CO)

While successfully completing this course, the learner will be able to:

→ Build and maintain applications with ASP.NET MVC in Code First Approach.

## What does this course give you?

→ Skills need to develop dynamic web applications using ASP.NET MVC framework that enables a clean separation of concerns, fast development, and TDD friendly.

## **Course content**

**Pre-requisite: C# Programming, Web Development Basics – HTML, CSS, JavaScript, Web Development using Asp.Net**

### **Introduction to ASP.NET Core**

Ø Introduction

Ø What is ASP.NET Core?

Ø ASP.NET Core Features

Ø Advantages of ASP.NET Core v MVC Pattern

Ø Understanding ASP.NET Core MVC

### **ASP.NET Core vs. ASP.NET MVC vs. ASP.NET Web Forms**

Ø ASP.NET Core First Application

Ø ASP.NET Core Environment Setup

Ø ASP .NET Core First Application

Ø Project Layout

Ø Understanding Life Cycle of ASP.Net Core Request



## **Controllers & Action Methods**

Ø Controllers Overview

Ø Action Methods and IActionResult object

Ø Passing data from Controller to View

Ø Understanding Action Selectors

## **Views**

Ø Introducing Razor View

Ø Advantages of Razor View

Ø Razor Syntax v

Ø Types of Views v

Ø Partial View

Ø Layout Pages

## **Models**

Ø Create Model Class

Ø Create Tables

Ø What is Context Class

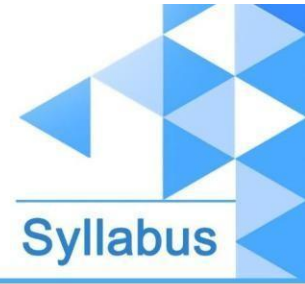
Ø Bind Data in Models

## **MVC and Entity Framework Core**

Ø Basic CRUD Operations using Entity Framework



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Ø Sessions

Ø Ajax and jQuery

Ø Image/File uploading,

Ø Registration and Login Concept

## **Contact Us**

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We have branches at Kochi, Thiruvananthapuram, Calicut and Bengaluru.