Course Outline

Module 1: Creating App Service Web Apps

Lessons

o   Introduction to Web Apps
o   Using shell commands to create App Service Web Apps
o   Creating background tasks using WebJobs in Azure App Service
o   Using Swagger to document an API

After completing this module, students will be able to:

o   Create an Azure app service web app by using Azure CLI, Powershell, and other tools
o   Create documentation for the API by using open source and other tools

Module 2: Creating mobile apps

Lessons

o   Getting started with mobile apps in App Service
o   Enabling push notifications for your app
o   Enabling offline sync for your app

After completing this module, students will be able to:

o   Add push notifications and enable offline sync for mobile apps

Module 3: Creating an app service Logic App

Lessons

o   Overview of Azure Logic Apps
o   Creating a Logic App
o   Creating custom connectors for Logic Apps
o   Creating a custom template for a Logic App

Module 4: Creating an app or service that runs on Service Fabric

Lessons

o   Understanding Azure Service Fabric
o   Creating a Reliable Service
o   Creating a Reliable Actors app
o   Working with Reliable Collections

After completing this module, students will be able to:

o   Develop stateful and stateless apps on Service Fabric

Module 5: Creating Azure Functions

Lessons

o   Azure Functions overview
o   Develop Azure Functions using Visual Studio
o   Triggers and bindings

After completing this module, students will be able to:

o   Create Azure functions including bindings and triggers

Module 6: Scheduling bulk operations

Lessons

o   Azure Batch overview
o   Running Batch jobs
o   Using the .NET Batch Management client library

After completing this module, students will be able to:

o   Define and run scheduled bulk operations

Module 7: Create solutions that use Azure Kubernetes Service

o   Creating an Azure Kubernetes Service cluster
o   Azure Container Registry
o   Azure Contaner Instances

After completing this module, students will be able to:

o   Create an Azure Container Service (ACS/AKS) cluster using Azure CLI and Azure Portal

Module 8: Developing apps for Azure Media Services

Lessons

o   Introduction to Azure Media Services
o   Azure Media Services v3 concepts
o   Upload, encode, and stream with .NET
o   Analyze your video with .NET

After completing this module, students will be able to:

o   Develop media solutions that use AI services