# ASP.NET Core Single Day Workshop Agenda

This single-day workshop is designed to introduce attendees to the high-level functionality available with ASP.NET Core 5, and the concepts within. A special emphasis on “real world” scenarios and usage will be covered to ensure that the end-result is a project that can be built upon.

The scenario covered will be a simple application that has backend-administration experiences as well as a public display.

## Pre-Requisites

Attendees should have the following on their machines.

* Visual Studio 2019
* .NET Core 5 SDK & Runtime
* An Azure DevOps Organization
* Installed these tools to Azure DevOps: <https://marketplace.visualstudio.com/items?itemName=iowacomputergurus.dotnetcore-pipeline-tasks>
* Basic familiarity with Git

## 8:30 – 10 AM – Overview & Validation (Classroom)

During this period we will dive into the who, what, why, and how of .NET Core and what will be covered over the course of the training. Key concepts including in this segment.

* .NET Core Support Lifecycle
* Breaking Changes & Upgrade Procedures
* Basic Project Types & References
* Limitations
* Identity Solutions
* Performance

Before the break, we will validate the configuration/installation on all attendee’s machines.

## 10 – 10:30 AM – Break

## 10:30 – 12 PM – Hands-On – Initial Project Creation

During this period, we will begin to create the project, dissect the template code, and start to incorporate the concepts necessary for our final product.

* Git Repository Creation (Azure DevOps)
* Project cloning
* Project Creation (From Template)
* Logging configuration
* AppSettings & Secrets Discussions
* Enterprise Project Structure (Class Libraries etc)
* Bundling & Minification

## 12PM – 1PM – Lunch

## 1PM – 2:30 PM – Hands-On – Project Continuation

We will continue to dive in to understand the projects and methods that we can use to extend/continue development.

* DI & Management of Registrations
* Validation & Action Flows
* Form Creation & Validation
* Ajax vs standard actions
* XSS and Other Security Concepts
* Caching & Validation
* Unit Testing Methods

## 2:30PM – 3PM – Break

## 3PM – 4:30 PM – Hands-On – Azure DevOps CI/CD

We will round out with a discussion on Azure CI/CD processes with .NET Core

* Build Configuration Basics
* Version Numbering
* Artifact Management
* Release Pipelines & Sensitive Information Management

And obviously questions throughout!