# Message Queue Fundamentals in .NET

**Module 6 Setup Instructions**

In Module 6 we implement the IMessageQueue interface using ZeroMQ, and look at end-to-end testing the solution using SpecFlow.

## Pre-requisites

The demo solution is delivered in Visual Studio 2013.

The solution uses NuGet package restore to load packages during the build.

To enable this in Visual Studio, open *Tools…Library Package Manager…Package Manager Settings* and ensure both options (*Allow NuGet to download missing packages* and *Automatically check for missing packages during build in Visual Studio*) are ticked.

NuGet will load the ZeroMQ and SpecFlow dependencies. You do not need the SpecFlow Visual Studio Add-In installed to build and run the tests.

Messaging is done over ZeroMQ using ports on the local machine, so you do not need to set up anything for the queues.

## Running the Solution

Build the solution, run *StartHandlers.cmd* to run the message handlers and navigate to **http://localhost/Sixeyed.MessageQueue.Web/unsubscribe** in a browser window to submit the form and start the unsubscribe workflow.

In the **before** solution, the unsubscribe workflow is using MSMQ.

In the **after** solution the website functions in exactly the same way, but the unsubscribe workflow is using ZeroMQ.