CWM: ASP.NET Learn and Build Nights

Dates: 12/13/2018 & 12/20/2018

**Agenda**:

* Discuss outline of introduction presentation on Learn Night.
* Discuss practice build application teaching approach on Build Night.
* Microsoft Azure Account.
* Discuss opinions on new CWM Logo Idea.
* Teach. Build. **Implement**? – I will go over what this means and how we can extend this application for CWM.
* CWM SoNet – more details later.
* Discuss GoFundMe for St. Jude Children’s Research Hospital [(here)](https://www.gofundme.com/start/charity-fundraising?pc=gtnonprofit_?utm_source=sendgrid&utm_medium=email&utm_content=giving-tuesday&utm_campaign=gt-nonprofitVLyKlnQvZaG0pWQn40QUUZZqJS835upmmLRGJhzDVQ-3D-3D).

**Learn Night (Dec 13): ASP.NET Introduction**

Topic outline:

1. Introduce the .NET/ASP.NET framework.
   1. ASP.NET Dynamic Websites.
   2. .NET API and Development Tools.
2. Briefly discuss the C# Programming language.
3. Introduce Microsoft WCF/MSMQ components.
4. Introduce the .NET Web Service.
5. Summarize how the MSMQ and the WCF client interact with the front-end ASP.NET website and backend .NET web service.
6. Possibly begin working on the practice project if we have sufficient time.

**Build Night (Dec 20): ASP.NET Website Project**

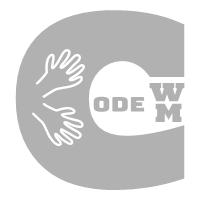
Program purpose: We will be developing a front-end ASP.NET User Profile registration and authentication for a Web Mail Application leveraging Microsoft MSMQ Queue Routing.

Topic Outline:

1. Go over the C# programming language basics we will use to develop the web service.
2. Setup MSM Queues that will be used for routing messages sent from the front-end to be processed, stored and fetched directly on the website.
3. Create a basic WCF Web HTTP Service to allow sending XML data via web endpoints to established MSMQ Queues.
4. Design the ASP.NET website users will use to login and compose, send and read mail messages.
5. Build the .NET polling service used to monitor MSMQ messages and store them to be processed.
6. Test the web application using the free 12-month Microsoft Azure for VM for .NET web service and SQL databases.

**I will be creating Visio diagrams and documenting installation procedures and take-home practice documentations and will send them out shortly in an email with this agenda document attached.**

**Logo:**

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