**Final Project**

Azure Search

**Problem Statement:**

People are always on the internet searching for jobs based on general information such as salary, location, job type, etc. The problem we face is the immediate need to access this information as it’s being produced, ability to sort through the data, and incorporating a great search experience to the end-user. The demo represented is an example of a New York City job website. With the various search methods, we will analyze the data using Azure search, web applications, storage container, and SQL server 2016 for ingest and storage of searches.

**Overview of the Technology:**

Using GitHub download the dataset to a local file. Created an Azure search service using the portal. Once the Azure search service completes create an index and define the field attributes. Create a SQL database and server 2016 providing the external data source used by an indexer. Then create a storage account with container for storing the data using a blob. Using Visual Studio 2017 import the dataset and define the C# code to communicate with Azure search and SQL database. After code been built, publish to a web application creating a web page demo. We can then produce search data that we can us Azure search and Postman to review, test, and share.

**High Level Steps:**

1. Download data, examine, and research.
2. Install and configure software/applications.
3. Implement and execute dataset using Visual Studio 2017.
4. Massage the dataset. Get target name and APIkey applying within Appsettings.
5. Run the NYC Job website for bugs before publishing.
6. Run various search queries then examine the search data.

**Data Source:**

Azure Search .NET - Jobs Website Sample

<https://github.com/Azure-Samples/search-dotnet-asp-net-mvc-jobs>

**Hardware Used:**

Intel Core i5-6300u, CPU 2.4Ghz, Windows 7 64-bit OS laptop, 16 Gb RAM

**Software Used:**

SQL Server 2016

Postman 5.5.2

Virtual Studio 2017 (C#) .NET SDK

Azure Search Index (JSON)

GitHub

**YouTube Links:**

2 Min: [https://youtu.be/pvXeqt8IIEk](https://youtu.be/pvXeqt8IIEk" \t "_blank)

15 Min: <https://youtu.be/_sM-TUtTXIM>

**GitHub Repository:**

<https://github.com/wtrbula/Final-Project>