We intend for this project to demonstrate your knowledge of the platform’s common APIs and frameworks, use of idiomatic code, and architectural and design decisions. It will provide a baseline of your development experience and skills and, enable us to tailor future discussions. Our expectation is that you will only need to spend 1-2 hours for this effort, but you are welcome to spend as much time as you like.

As much as we at Rightpoint love learning new things, we ask that your application be built using the same stack on which we deliver for our customers: WISA. This means:

* Hostable in **W**indows/**I**IS/IIS Express/Azure PaaS
* **S**QL Server (if applicable)
* **A**SP.NET (any version)

In addition, we recommend any of the following JavaScript frameworks, if applicable to your solution: jQuery, React, Angular, Knockout, Vue

You will be assessed on:

* User story completion
* Code readability
* Fault Tolerance
* Functional decomposition
* Protocol usage/interface implementation
* Other architectural choices

1. Logging
2. Security - Do not expose OMDB API Key to outside world thru URL. Instead provide our own security to consumers
3. Performance considerations
   1. Cache the settings in application
   2. AWS – Dynamo DB Accelerated Cache for movies
4. Create API Restful service that controller can consume
5. Unit Tests
6. CI / CD

Visual and UX design must be usable but will not be considered.

We’ll use this homework to drive `why` questions vs `what`, e.g., “why was choice A decided over choice B” instead of “what is this class doing”. This will entail going through the project during a later interview where you will have to explain different considerations and trade-offs. We find the justifications behind a choice more indicative of a developer than the choice itself, and this guided code review is the opportunity to explain your programming and design philosophy.

User Stories:

* As a forgetful movie and tv show viewer, I want to be able to **search** for a movie/tv show **title and specify its type** (movie, tv, or anything) so that I have possible results of what’s been on my mind for a while. To that end, include the **poster, title, and year of release** to help jog my memory.
* As a user with rather esoteric tastes, I want to know if a search result returns absolutely zero results.
* As someone who is working from home and may have reduced bandwidth, I want to see paged results

For the project, you will be using the OMDb API, for more information go to [http://www.omdbapi.com](http://www.omdbapi.com/)

You can create a free key with a limit of 1,000 usages a day. Get more info <http://www.omdbapi.com/apikey.aspx>

Use of StackOverflow and other resources is allowed, but if substantial portions of code are reused, please leave the permalink URL as a source.

1. **Google Search** – StackOverflow, W3 Schools, C-SharpCorner for various html. .NET Framework and C#.
2. My own current framework for SQL Connection and JSON Converter
3. How To **Deploy Web App To Azure** Using Visual Studio – <https://www.c-sharpcorner.com/article/how-to-deploy-web-app-to-azure-using-visual-studio/>
4. **AWS** - **Host SQL Server Express** – Played around in free AWS trial version and hosted