

A decorative graphic on the right side of the page consists of three overlapping circles of varying sizes, each with a dark blue center and a lighter blue outer ring. Two thin, light blue lines intersect at the top right, forming a large 'V' shape that frames the circles.

Movie Database Web Service

A WCF Implementation using IMDB API

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Introduction

The Movie database information retrieval Web service has been created using the Windows Communication Foundation (WCF) version.NET4.5.

Path to Create a WCF project:

1. Open Visual Studio
2. Click File
3. Click New
4. Click Project
5. Select WCF Service Application from list of available projects for Visual C#
6. Give Name for Project Below

This is how you create the WCF project.

(For More information about how to create web service please follow the link)

<http://vhost3.cs.rit.edu/application/documetations/How%20to%20create%20web%20service.pdf>

Technology

The Open Movie Database API by Brian Fritz is very useful to create different functionality for movie database web service. This API is publicly available for free. Please find documentation about how to use API's please click on the link below.

<http://www.omdbapi.com/>

Functions available

1. getMovie

This function provides the movie information.

Input parameters: movie name in string

Output: movie information in Json format.

1. getMovieList

This function provides list of all possible movie start with given characters.

Input parameters: name in sting

Output: List of movie name in Json format.

Snippets

Function getMovie

```
/**
 * Provides movie name
 *
 * @param name_ (string) movie name you looking for
 * @param movie_id_ (string) movie id if you know else sen empty string
 * @param year (string) year of movie if you know else sen empty string
 *
 * @return json object
 */
public string getMovie(string name_, string movie_id_, string year_)
{
    string output;
    string name = name_;
    string movie_id = movie_id_;
    string year = year_;
    using (WebClient client = new WebClient())
    {
        string input = "http://www.omdbapi.com/?t=" + name + "&y=" + year;
        output = client.DownloadString(input);

        //JsonValue value = JsonValue.Parse(output);
        var jss = new JavaScriptSerializer();
        var dict = jss.Deserialize<Dictionary<string, string>>(output);
        return (jss.Serialize(dict));
    }
}
```

Function getMovieList

```
/**
 * Provides name of movie. This is very useful for autocomplete
 *
 * @param name_ (string) movie name you looking for
 * @return      json object
 */

public string getMovieList(string name_)
{
    string output;
    string name = name_;

    using (WebClient client = new WebClient())
    {
        string input = "http://www.omdbapi.com/?s=" + name;
        output = client.DownloadString(input);
        //JsonValue value = JsonValue.Parse(output);
        var jss = new JavaScriptSerializer();
        var dict = jss.Deserialize<Dictionary<string, dynamic>>(output);
        return (jss.Serialize(dict));
    }
}
```

Notes:

Also include following at the top

```
using System.Text;  
using System.Web;  
using System.Web.Script.Serialization;  
using System.Net;
```

Publishing Web Service

Please click on following link and follow the instruction

<http://vhost3.cs.rit.edu/application/documetations/Publish%20web%20service%20to%20IIS.pdf>