Creating_the_Backend_Page_and_Article_Manager

- Adding the Newtonsoft. Json NuGet package
- Creating Article Info and IarticleDataProvider in C#
- Creating the backend Article Manager in C#
- Adding GetNextArticle.aspx page for the client to request against

Src (C#) > ArticleInfo.cs

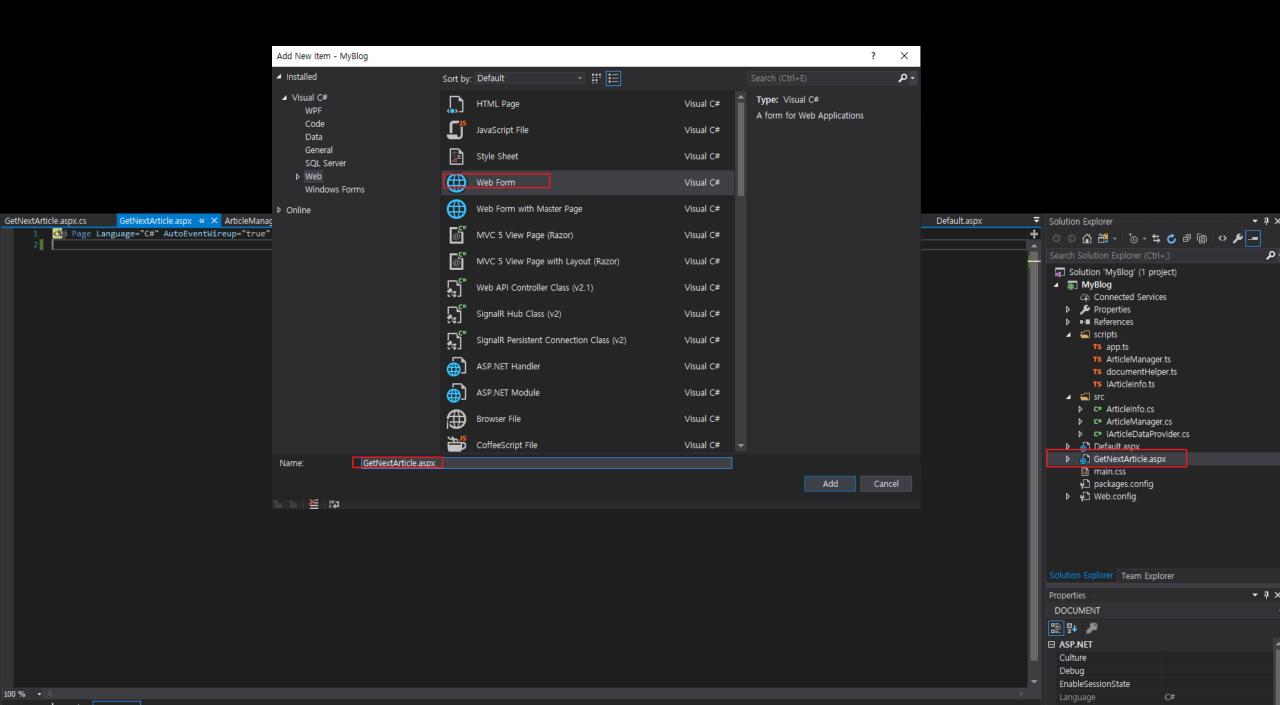
```
namespace MyBlog.src
            /// <summary>
            /// Holds article information.
            /// </summary>
            public class ArticleInfo
            /// <summary>
            /// The identifier of this object
            /// </summary>
            public int Id { get; private set; }
            /// <summary>
            /// The titile of this object.
            /// </summary>
            public string Title { get; private set; }
            /// <summary>
            /// The content of this object
            /// </summary>
            public string Content { get; private set; }
```

Src (C#) > IArticleDataProvider.cs

```
namespace MyBlog.src
{/// <summary>
///An interface to an article provider.
/// </summary>
  interface IArticleDataProvider
  { /// <summary>
     /// Initializes this provider.
     /// </summary>
     void Initialize();
     /// <summary>
     /// Gets an article by the provided identifier.
     /// </summary>
     /// <param name="id">The identifier to get the article by.</param>
     /// <returns></returns>
     ArticleInfo GetArticleById(int id);
     /// <summary>
     /// Gets the latest article
     /// </summary>
     /// <returns></returns>
     ArticleInfo GetLatestArticle();
```

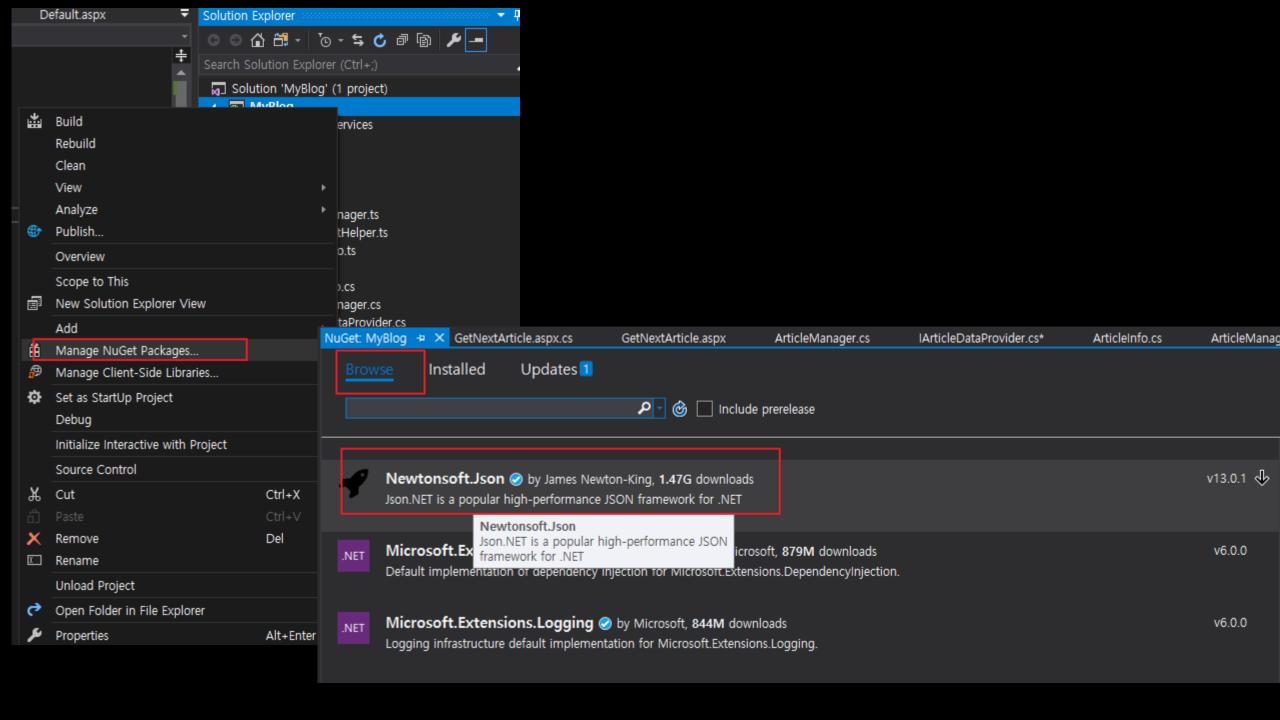
Src (C#) > ArticleManager.cs

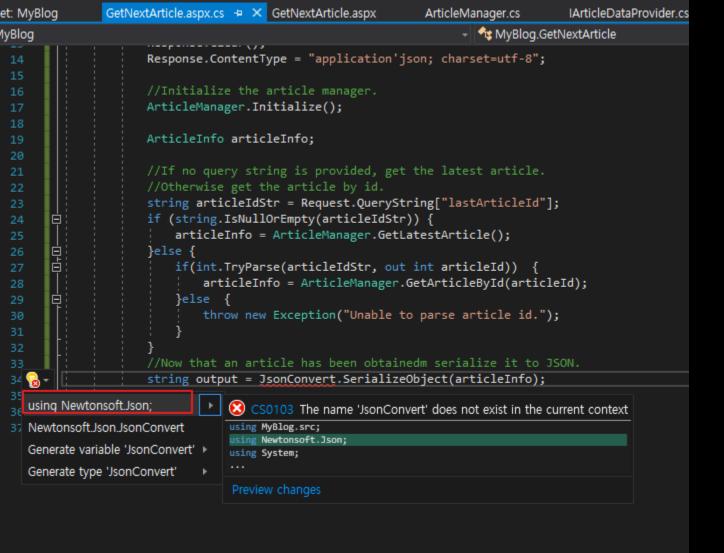
```
namespace MyBlog.src
  /// <summary>
  /// Manages articles in the system
  /// </summary>
  public class ArticleManager
     private static IArticleDataProvider _provider;
     public static void Initialize()
     //TODO: Hook up the data provider.
     //Initialize the data provider.
     _provider.Initialize();
```



GetNextArticle.aspx(show code)

```
using MyBlog.src;
using System;
namespace MyBlog{
public partial class GetNextArticle : System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
       //Make sure response is clean and set to return JSON.
       Response.Clear();
       Response.ContentType = "application'json; charset=utf-8";
       //Initialize the article manager.
       ArticleManager.Initialize();
       ArticleInfo articleInfo:
       //If no query string is provided, get the latest article.
       //Otherwise get the article by id.
       string articleIdStr = Request.QueryString["lastArticleId"];
       if (string.lsNullOrEmpty(articleIdStr)) {
          articleInfo = ArticleManager.GetLatestArticle();
       }else {
          if(int.TryParse(articleIdStr, out int articleId)) {
            articleInfo = ArticleManager.GetArticleById(articleId);
          }else {
            throw new Exception("Unable to parse article id.");
       //Now that an article has been obtained m serialize it to JSON.
       string output = JsonConvert.SerializeObject(articleInfo);
```





GetNextArticle.aspx(show code)

```
namespace MyBlog{
public partial class GetNextArticle : System.Web.UI.Page {
  protected void Page_Load(object sender, EventArgs e)
        //Make sure response is clean and set to return JSON.
        Response.Clear();
        Response.ContentType = "application'json; charset=utf-8";
        //Initialize the article manager.
        ArticleManager.Initialize();
        ArticleInfo articleInfo:
        //If no query string is provided, get the latest article.
       //Otherwise get the article by id.
        string articleIdStr = Request.QueryString["lastArticleId"];
        if (string.lsNullOrEmpty(articleIdStr)) {
          articleInfo = ArticleManager.GetLatestArticle();
        }else {
          if(int.TryParse(articleIdStr, out int articleId)) {
             articleInfo = ArticleManager.GetArticleById(articleId);
             throw new Exception("Unable to parse article id.");
        //Now that an article has been obtained m serialize it to JSON.
        string output = JsonConvert.SerializeObject(articleInfo);
        Response.Write(output);
        Response.End();
```