**Step-By-Step**

**Creating API Service Application**

* File [Menu] 🡪 New 🡪 Project 🡪Select Asp.Net Web Application.
* Change the name to ‘APIService’.
* Browse the Location to Desktop/Custom Token.
* Select ‘EMPTY’ Template and check ‘Web API’.

**Creating Authorization**

* Install the Libraries
* Install: Microsoft.AspNet.WebApi.Owin
* Install: Microsoft.Owin.Host.SystemWeb
* Install: Microsoft.AspNet.Identity.Owin
* Install: Microsoft.AspNet.Identity.EntityFramework
* Install / Update: Microsoft.Owin.Security.OAuth
* Install: Microsoft.Owin.Cors
* Update: Newtonsoft.Json (To Latest Version)
* Right click on ‘APIService’, Add a class ‘Startup.cs’ – Place the respective code.
* Right click on ‘APIService’, Add a folder ‘AuthorizationFilter’
* Right click on ‘AuthorizationFilter’, Add a class ‘AuthorizationServerProvider.cs’ – Place the respective code.
* In Model – Create a class ‘GlobalVariables.cs’
* Place key values in appSettings.
* In Model – Create a class ‘OAuth.cs’
* Create a folder ‘SharedEntities’ under Model andCreate a class ‘SE\_Users’.
* In Model – Create a class ‘DataAccessComponent.cs’
* Create a folder ‘DataObjects’ under Model and Create a class ‘LoginDAL.cs’.

**Creating API Controller**

* Right click on the Controller, Add Web API Controller Empty.
* Add Name to controller ‘TokenTestController’.
* Place Authorize before the action result or before the TokenTestController.

**Creating RSA**

* Create a Folder 'Helper'.
* Create a class 'RSAPattern' in *Helper* Folder. - Write down the related code in it.
* Place Public Key and Private Key in GlobalVariables
* Placed Public Key in Web.Config.
* Note:
* Public Key should be kept on the Client Side(i.e., MVC).
* Private Keyshould be kept on the Server Side (i.e., Web API).

**Creating AES Algorithm**

* Create a class 'AES\_Algorithm' in *Helper* Folder. - Write down the related code in it.
* Place a Variable in GlobalVariables
* Placed Key Value in AppSetting - Web.config.

**Exception Handling - Storing in txt Log**

* Creating a class 'ExceptionLogging' in *Helper* Folder.
* Write the related code in it.
* Create a Folder 'ErrorLog'.
* Add Key Value in web.config.
* Place the code in any catch block to store in txt file.