**Activants Pte Ltd Service Provider Application**

**Development Breakdown**

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| **Date: 6th Nov 2019** |
| **Technical Requirements**   * Microsoft Visual Studio version: 2019 * Microsoft SQL Server 2017 * Microsoft SQL Server Management Studio (SSMS) v18.4 * Microsoft IIS Server |
| **Project Details**   * Project type: ASP.NET C# MVC project. * ASP.NET Framework Version: 4.7.2 * Entity Framework version: 6.0.0 * ComponentSpace.SAML2 DLL version: 3.4.0.0 (**TRIAL VERSION**) |
| **Project Description**   * Project Name: ActivantsSP (Activants Service Provider) * Project summary: A SAML based Service Provider which takes SAML Request, Authenticates the user from the identity provider and sends back SAML response to clients. |
| **Database created**   * Created new database named as Activants in SQL Server Management Studio (SSMS) * Authentication mode: Windows based authentication * Table and fields are auto created when application starts running. * Tables are used to store User claims, user’s security stamp and username. |
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| **Template Used**   * Default ASP.Net template with Razor Views. |
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| **Pages Created**   * One About page is created with a login and logout button to initiate the login, display the data and to initiate the Logout option. |
| **Config Files**   * One saml configuration file is created (saml.config) to store the metadata of Identity Provider. |
| **Changes in Web.Config**   * Added identity provider’s identifier in web.cofig file. * Added Database configurations. |
| **DLL file**   * ComponentSpace.SAML2 DLL is used which is trial version. |
| **Controller Created**   * one controller (SamlController) created for SAM request and response. * Consisting of the following main functions |
| **Certificate Folder**   * One new folder (Certificate) created to store Identity’s public key and Service provider’s private and public key. |

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| **Date: 7th Nov 2019** |
| **Changes made**   * **Controller**: Change in SingleLogoutService function under SamlController. * **Config**: Change in saml.config file |

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| **Date: 8th Nov 2019** |
| **Certificate Folder**   * Installed OpenSSL software for generating new x509 certificates (SP.CER and SP.PFX)   **Issue fixed**   * Cleared SAMLCertificateException   **Deployment in Development Server**   * Successfully deployed Service Provider application in Development Environment. |

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| **Date: 11th Nov 2019 & 12th Nov 2019** |
| * Service Provider User Guide * Service Provider Development breakdown * SAML PPT |