SDAR   
asset management

Setup Guide

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# Section 1: Prerequisites

## Part 1: Install Visual Studio 2019 (Community)

A step-by-step guide to download and install Visual Studio 2019

|  |  |
| --- | --- |
| **Description** | **Screenshot** |
| Download Link: <https://visualstudio.microsoft.com/vs/>  Select the ‘Community 2019’ version to download. |  |
| Click on ‘Continue’ and let the installer run. |  |
| Under Workloads, make sure at least these 3 boxes are selected, and click on ‘Install’ and let the installation complete. |  |

## Part 2: Install SQL Server 2019 (Developer)

A step-by-step guide to download and install SQL Server 2019 Developer Edition

|  |  |
| --- | --- |
| **Description** | **Screenshot** |
| Download Link: <https://my.visualstudio.com/Downloads?q=sql%20server%202019&pgroup=>  Download the SQL Server 2019 **Developer** Edition |  |
| After downloading the installer, click on the setup.exe application icon. |  |
| Click on the ‘Installation’ tab on the left panel. |  |
| Click on ‘New SQL Server stand-alone installation or add features to an existing installation’ |  |

|  |  |
| --- | --- |
| Ensure that you choose ‘Developer’ edition |  |
| Make sure at least ‘Database Engine Services’ is selected before proceeding to the next step. |  |
| Select the Default instance if possible.  NOTE: Install as a named instance if you have other SQL software installed. |  |
| Select ‘Mixed Mode’ and enter a new password.  NOTE: Please remember the password.  NOTE: Click on ‘Add Current User’ before proceeding. |  |
| Click on ‘Install’ to complete the setup process. |  |

## Part 3: Install Microsoft SQL Server Management Studio 2018

A step-by-step guide to download and install SQL Server Management Studio 2018

|  |  |
| --- | --- |
| **Description** | **Screenshot** |
| Download Link: <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15> |  |
| Click on ‘Install’ and let the installer run |  |
| Click on ‘Restart’ to restart the computer system. |  |

## Part 4: Creating the SQL Database

The following steps shows how to connect to the SQL Server, how to create databases, and to execute SQL Scripts.

|  |  |  |
| --- | --- | --- |
| **Description** | **Screenshot** | |
| Open Microsoft SQL Server Management Studio.  Click on File > Connect Object Explorer |  | |
| To connect to server, there are 3 fields.  Server name: You can get your server name by opening command prompt and entering ‘hostname’  Login: Default will be SA  Password: This is the password you have created in the setup.  After filling in the credentials, click on ‘Connect’. |  | |
| Click on ‘Databases’ > New Database… | |  |
| Enter ‘AssetManagementDB02’ as Database name, followed by ‘OK’ button. | |  |
| NOTE: Please run the scripts in the following order   * AssetManagementSystem 2020-09-15 Updated Schema.sql      * AssetManagementSystem 2020-06-01 Minimal Data.sql     Double Click each icon to open the scripts in Microsoft SQL Server Management Studio.  Click on Execute to run the script. | |  |
| On the right, expand Databases > AssetManagementDB02 > Tables. You should see that the tables have been populated. | |  |

## Part 4: (Troubleshooting) Creating the SQL Database

This shows how to troubleshoot common errors when creating the SQL Database

### Scenario 1: “Query completed with errors”

|  |  |
| --- | --- |
| When running the SQL scripts, a common error output statement is: “Query completed with errors”  if there is encounter of error, mainly if an object already exists. |  |
| Remove Database by clicking on Databases > your\_Database\_name > Delete.  After deletion, run the script(s) again. |  |

# Section 2: Running the Application

After all the above requisites, the application can now be run.

## Part 1: Extract the Project Folder

Download (if needed) and locate the zipped Project folder.

|  |  |
| --- | --- |
| **Description** | **Screenshot** |
| Locate the zipped project folder and click on ‘Extract all’. |  |
| Double click the Solution file to open it in Visual Studio |  |

## Part 2: Updating the Entity Framework

Updating the Entity Framework will be essential for the application to run.

|  |  |
| --- | --- |
| Navigate to AMSWebApiNew > EntityModel > smgonlineEntities.edmx |  |
| Upon opening the entity file, right click on an empty space on the file and click on ‘Select All’ and delete all of them.  Right click on the now empty entity file and click on ‘Update Model from Database’ |  |
| In the Update Wizard, select ‘Tables’ under the Add tab, and click on ‘Finish’  The space should now be repopulated with the updated model. |  |

## Part 3: Run the Application

|  |  |
| --- | --- |
| Click on ‘IIS Express’ and wait for the application to open in your browser of choice. |  |
| You should see the Login page displayed. This means the application is running successfully.  Please refer to the User Guide for using the system. |  |

## Part 3: (Troubleshooting) Run the Application

This shows how to troubleshoot common errors when attempting to run the application

### Scenario 1: “This site can’t provide a secure connection”

|  |  |
| --- | --- |
| **Description** | **Screenshot** |
| The Application would run in your default web browser.  If you are seeing this error (ERR\_SSL\_PROTOCOL\_ERROR), please try another browser. |  |
| Click to expand ‘IIS Express’ in Visual Studio 2019 to change the default Web Browser to another browser, preferably using Microsoft Edge. |  |