Introduction

This document describes the setup of the application “**Project Manager**” in the local machine for development and debugging purpose.

Software Requirements and Technology details

Required Software

These are the list of the software installed in the system to debug/develop and run the application:

* Visual Studio 2017
* Visual Studio Code (preferable latest version)
* SQL Server Management Studio 2017
* Google Chrome
* Node JS v 8.12.0
* GIT BASH and GIT UI (for connecting to the repository)

Technology Details

These are the list of the technologies used in the application:

* Angular 4 (UI)
* HTML (UI)
* CSS3 and BOOTSTRAP (UI)
* .NET Framework
* Web API 2.0 (C#)
* Entity Framework (C#)
* SQL (C#)

Setting up the application

Taking checkout

* Visit the URL <https://github.com/nepalmaity/SBA_IIHT.git> where the code is checked in.
* Click on the “**Clone or download**” button.  
  
* Once a small pop-up opens, click on the “**Download ZIP**” button.  
  
* Open the downloaded file and extract the folder (**FSE**) to some path on the system.

Folder Structure

In the main folder **FSE** there are two folders.

* Client:   
  This folder contains the angular part of the code.
* Server:   
  This folder contains the C# part of the code.

Client

* Go to the path **FSE/UI** where you can see the file ***angular.json***
* Open command prompt
* Copy the path from Step No. 1
* Traverse to the path of Step 1 in the command prompt
* Once you are in this path, run this command “npm install –g -f @angular/cli”
* After this installation is done, run this command “npm install -f”
* Let all the npm packages install in the project
* Once the installation is done you will be able to see a folder “*node\_modules*” in your system
* Don’t close the command window yet

Server

* Open the folder **FSE/server**/**ProjectManager**
* Open the file “**ProjectManager.sln**” in Visual Studio 2017
* Build the application
* Don’t close the Visual Studio 2017 yet

Database

* Open the SQL Server Management Studio
* Run the script “**CreateDatabase\_Script.sql**”
* Run the script “**CreateTables\_Script.sql**”

Running the application

Once the build is succeeded:

* Open the command prompt and run the command “npm start”
* Open the visual studio 2017 and select the “**ProjectManager**” project as startup project and press “**Start**” to run the application
* Once the node modules are built after the step 1, open Google Chrome and enter the URL “**localhost:4200**”

Running the application : DEPLOYED SERVER

If the IIS is running in this machine.

* Open tab in Chrome and search <http://localhost:8090/api/project/> to test the API is running or not.
* Open tab in Chrome and go to <http://localhost/app> to see the deployed UI code is running or not.