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/indranil606187/FSE_Final_SBA> 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\_Final\_SBA**) to some path on the system.

Folder Structure

In the main folder **FSE\_Final\_SBA** there are two folders.**(In Git)**

* 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\_Final\_SBA**/client** **(In Git)** 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\_Final\_SBA**/server**/**ProjectManager(In Git)**
* Open the file “**ProjectManager.sln**” in Visual Studio 2017
* Build the application
* Make ProjectManager as Start Up project
* Make Home.Html as start page
* Don’t close the Visual Studio 2017 yet

DatabaseScripts

* 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**”