Introduction

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

Source code for the “**Project Manager**” final assignment is kept under in the VM.

**C:\Subrata\Subrata\FSE\_260153**

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/subratasr/FSE_260153/> 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\_260153git) to some path on the system.

Folder Structure

FSE\_260153 contains the following folders:

* *01\_Middle\_Tier\_Layer*: This folder contains .NET web api code
* *02\_Database\_Scripts*: This folder contains the database scripts for creating database & tables.
* *03\_UI\_Layer*: This folder contains the angular web code.
* *04\_Unit\_Testing\_Result*: This folder contains NUnit testing report
* *05\_Code\_Coverage*: this folder contains ”OpenCover” code coverage report.
* *06\_Performance\_Testing*: This folder contains NBench performance testing report
* *07\_Jenkins\_Report*: This folder contains Jenkins build report

03\_UI\_Layer

* Go to the path “*\FSE\_260153\03\_UI\_Layer\UI*” where you can see the file angular.json
* Open NodeJS 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
* Do an *npm start*

01\_Middle\_Tier\_Layer

* Open the folder “\FSE\_*260153*\01\_Middle\_Tier\_Layer\ ProjectManager”
* Open the file “*ProjectManager.sln*” in Visual Studio 2017
* Build the application & run the application
* Don’t close the Visual Studio 2017 yet

02\_Database\_Scripts

* Open the SQL Server Management Studio
* Run the script “*ProjectManagerDB\_CreateDatabase\_Script.sql*”
* Run the script “*ProjectManagerDB\_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”