**IIHT – Cognizant**

**Skill Based Assessment (SBA)**

**Single Page Application**

**On**

**Project Manager**

Setup Document

Version 1.0

Contents

[1. Introduction 2](#_Toc8082770)

[2. Software Requirements and Technology details 2](#_Toc8082771)

[2.1. Required Software 2](#_Toc8082772)

[2.2. Technology Details 2](#_Toc8082773)

[3. Setting up the application 2](#_Toc8082774)

[3.1. Taking checkout 2](#_Toc8082775)

[3.2. Folder Structure 4](#_Toc8082776)

[3.2.1. Client 4](#_Toc8082777)

[3.2.2. Server 4](#_Toc8082778)

[3.2.3. Database 4](#_Toc8082779)

[4. Running the application 4](#_Toc8082780)

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# Introduction

This document is used to do the initial setup of the application “**Project Manager**” in local machine for development and debugging purpose. Once the setup is done, developer can scale, customize, debug, build & run the application according to the requirement.

# Software Requirements and Technology details

## Required Software

The below software are required to debug/develop and run the application:

1. Visual Studio 2017
2. Visual Studio Code (preferable latest version)
3. SQL Server Management Studio 2017
4. Google Chrome
5. Node JS v 8.12.0
6. GIT BASH and GIT UI (for connecting to the repository)

## Technology Details

The below technologies are used to build the application:

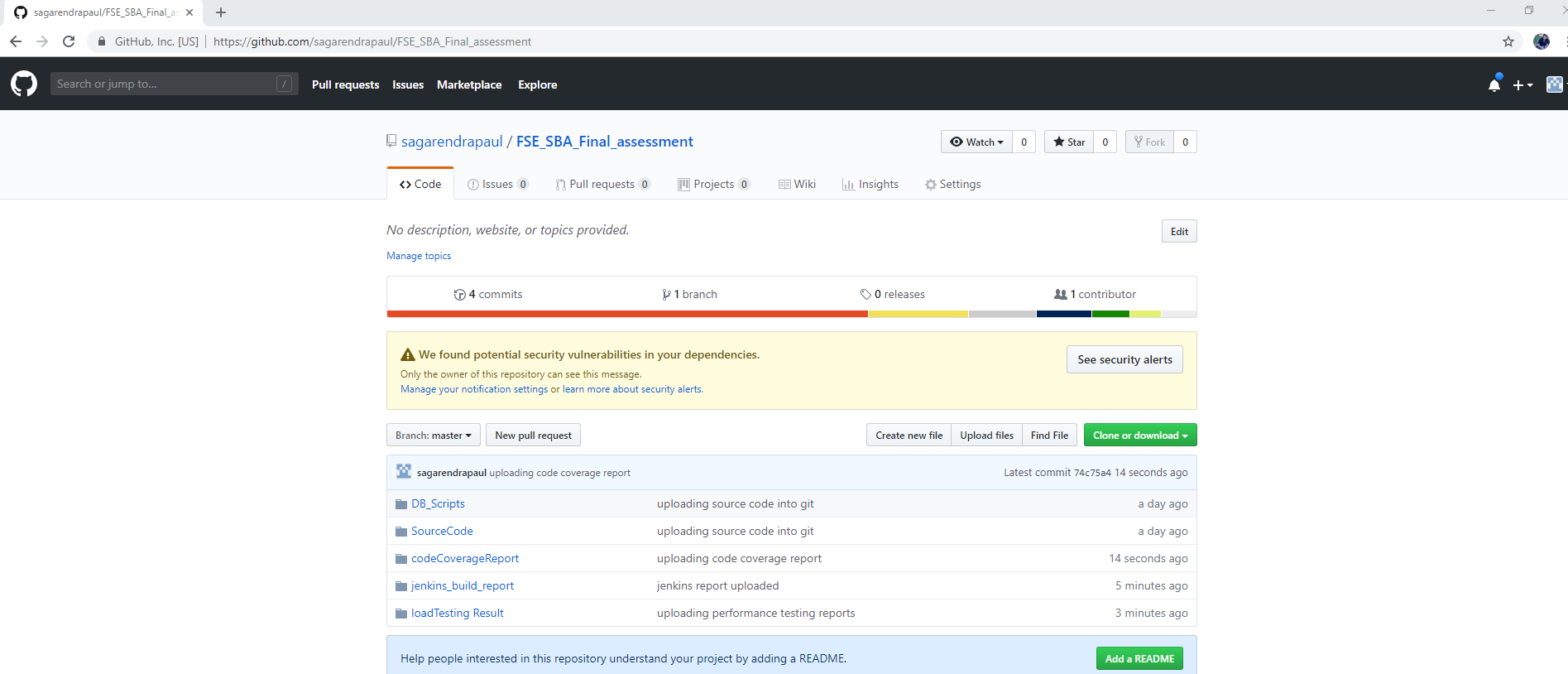
1. Angular 4 (UI)
2. HTML (UI)
3. CSS3 and BOOTSTRAP (UI)
4. .NET Framework
5. Web API 2.0 (C#)
6. Entity Framework (C#)
7. SQL (C#)

# 

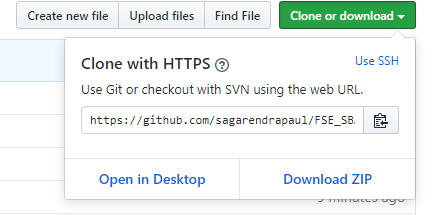
# Setting up the application

## Taking checkout

1. Open URL <https://github.com/sagarendrapaul/FSE_SBA_Final_assessment> where the codes are checked in.
2. Click on the “**Clone or download**” button.



1. On clicking “Close or download” button, a small pop-up opens up, click on “**Download** **ZIP**” button to download the code in your local system.



1. Unzip file and extract the code to your required path on the system.

## Folder Structure

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

1. **Client**: This folder contains the Angular code.
2. **Server**: This folder contains the C# part (Service – WebAPI) code.

### Client

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

### Server

1. Open the folder **/server**/**projectManager**
2. Open the file “**projectManager.sln**” in Visual Studio 2017
3. Build the application
4. Don’t close the Visual Studio 2017 yet

### Database

1. Open the SQL Server Management Studio
2. Run the script “**Project\_Manager\_Create\_Database.sql**”
3. Run the script “**Project\_Manager\_Create\_Table.sql**”

# Running the application

Once the build is succeeded:

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