***Configuration SetUp Document***

***Award Management System***

**GitHub Account Name :** Tenacious-Org

(<https://github.com/Tenacious-Org>)

**Steps To Download project from GitHub**

1. **Angular:** Tenacious-Org --> Angular -->Code -->Download Zip -->Extract All
2. **Web API:** Tenacious-Org --> DedSecAPI -->Code -->Download Zip -->Extract All

**Pre-Requisites**

* **API**
* Visual Studio code
* Basic Knowledge on C#
* SQL Server
* SDK

**2. Angular**

* Visual Studio Code
* Node.js
* Basic Knowledge on HTML , CSS , TypeScript.
* For Angular CLI, We need to install Npm by using **npm install -g @angular/cli .**

**1. API (Backend)**

**1.1 Steps to be Taken to run the API**

* Open Extracted Project -->DedSecAPI -->A5-->and then in path type **cmd**, and it will open Command prompt and type **code .** ,It will open VScode

(or)

Open VS code, File --> Open Folder -->DedSecAPI -->A5, It will open the Project in VScode

* In appsettings.json we have to change the server name in the ConnectionString with the server name of the local SQL Server.
* Then in Terminal --> dotnet build,

dotnet ef migrations add initial,

dotnet ef database update,

dotnet run

* A localhost link will be generated (Ex: [https://localhost:7275](https://localhost:7275/)) , Click that link and it will navigate to chrome page and in url we have to type " /swagger"next to the available link. (Ex : <https://localhost:7275/swagger>) .

**2. Angular (FrontEnd)**

**2.1 Steps to be Taken to run the Angular**

* In Extracted Project-->Angular-->AwardSystem-->src , and and then in path type **cmd**, and it will open Command prompt and type **code .** ,It will open VScode

(or)

Open VS code, File --> Open Folder -->Angular-->AwardSystem-->src Extracted Project --> , It will open the Project in VScode

* Change the host id (URL) with your Swagger URL in AwardSystem-->shared.services.ts
* In Terminal ,give **npm i** to install the pakages that are required for our project.
* After the packages have been installed give the command like **ng s -o .** It will open the Application's login page.

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***Linting***

**Steps to be Taken to lint the Angular project**

* Open Angular project by Angular-->AwardSystem-->src Then to install the pakages that are dependent will be installed by using "**npm i"** in terminal
* To install the Package for linting In terminal type **ng add @angular-eslint/schematics.** It adds the folder **eslintrc.json** in angular
* After installing the packages,run linting by using **ng lint.**
* To skip the errors that are occured due to default lifemethod, In eslintrc.json file under rules add **-->"@angular-eslint/no-empty-lifecycle-method": "off"**.
* Some Errors can be automatically fixed by default, To fix those linting errors run **ng lint --fix**

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***SonarQube***

**Steps to be Taken to do code coverage**

* First download the SonarQube and JDK and then extract the Zip
* Run Extracted sonarqube-->sonarqube-->bin-->windows x86-64-->StartSonar , This will run **jvm** in command prompt. after SonarQube is operational.
* In chrome, Open **localhost:9000 ,** It will show login page for sonarQube. Type Default Login: **admin** , Password :**admin** then Login.
* For the very first time of sucessful login to SonarQube, it will show Update Password after login, There reset the password.
* Then it will show How do you want to create your project? ,There select "Manually".
* Then Create a project page will appear,there give the project display name and project key and then give Setup
* How do you want to analyze your repository? page will appear there select Locally.
* Then Analyze your project page will appear there give the token name --> generate -->continue -->.Net -->.Net Core.
* Then In terminal -->run the commands that are availabe in sonarQube
* dotnet tool install --global dotnet-sonarscanner