**Contract Management System V1 – System Set-Up**

1. **Install “Visual Studio Code” IDE**

**Steps:**

1. Download and install “visual studio code” from <https://code.visualstudio.com/download>

**Note:** You can use any IDE which you are comfortable with for MEAN Stack development, I’ve used visual studio code

1. **Download code “ContractManagementSystem” from GIT**
2. **Download and install “nodejs”**

**Steps:**

1. Download and install **“nodejs”** from <https://nodejs.org/en/download/>. Choose the stable version according to your operating system (ie) 8.12.0 LTS
2. On installation, open **“command prompt”** and check for nodejs version

(ie) c:\Users\XXXX>**node -v**

1. **Install and Run “MongoDB”**

**Steps:**

1. Download and install MongoDB Community edition from <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/>
2. Once complete, create a **“db.bat”** file with the following 2 commands and execute

cd C:\Program Files\MongoDB\Server\4.0\bin

mongod.exe --dbpath C:\Users\XXXX\mongo-data

**Note:** Please ensure that the path in **“db.bat”** file refers to intended installation directory for MongoDB from your system and a create a new folder mongo-data in the path of your choice and define it against the command line argument –dbpath.

1. On execution of the **“db.bat”** file, the **“mongoDB”** should be up and running on <http://localhost:27017>
2. **Install and run “MongoDB Compass”**

**‘MongoDB Compass’** acts as a default management tool to access **‘MongoDB’**

**Steps:**

1. Download and install **“MongoDB compass”** from <https://www.mongodb.com/download-center?initial=true#compass>
2. On successful installation, Double click on short-cut for **“MongoDB Compass”**
3. It opens a **“Connect to Host”** wizard with some default connection parameters ((ie) HostName : localhost and Port: 27017) **->** now click on **“CONNECT”**
4. Now a screen for **“Databases”** appear **->** Now click on **“Create Database”** **->**Enter **‘Database Name’** as **myDB** and **‘Collection Name’** as **customers**
5. **Install and run “express” server, “Mongoose”, “body-parser” and cors**

**Steps:**

1. Open **“Visual Studio Code”** **->** Navigate to **“File”** -> Click **“Open Folder”**-> Navigate and select the downloaded project folder **“ContractManagementSystem”**
2. Open **“command prompt”**-> Navigate to project folder path

Ie) **>cd C:\Users\XXXX\Desktop\ContractManagementSystem>**

1. Install **“express”**(acts as server), **“Mongoose”** (ORM for MongoDB), **“body-parser”** (Allows JSON data to be set to NodeJS api) and **“cors”**(Which allows express to receive request from front end) - using command **"npm i express mongoose body-parser cors --save"**

Ie) C:\Users\XXXX\Desktop\ContractManagementSystem> **npm i express mongoose body-parser cors –save**

1. Once done, execute the “**nodemon”** command to compile and run index.js, this automatically picks file changes without the need to restart the server

Ie) C:\Users\XXXX\Desktop\ContractManagementSystem> **nodemon index.js**

1. Now the express server should be up and running on <http://localhost:3000>
2. **Install and Run “Angular Cli”**

**Steps:**

1. Open **“Command Prompt”** and install **“angular cli”** using the command **“npm install @angular/cli –g”**

Ie) C:\Users\XXXX>**npm install @angular/cli –g**

1. On completion, navigate to **“AngularApp”** folder of **“ContractManagementSystem”**

Ie) **cd C:\Users\XXXX\Desktop\ContractManagementSystem\AngularApp>**

1. Now bring the angular server up using the command **“ng serve --open”**

Ie) C:\Users\Aishwarya\Desktop\ContractManagementSystem\AngularApp> **ng serve –open**

1. Now the Angular app should be up and running on <http://localhost:4200>