**Running the web project on a local machine**

1. A working copy is in the master branch. You could easily clone it to your local machine.
2. After cloning the master branch, you would need to have node\_modules.
   1. First, install Node.js from <https://nodejs.org/en/>.
   2. After downloading and installing Node.js, you could confirm that Node.js and npm are installed by running,

$ node –v

$ npm –v

* 1. These commands should give you v8.9.4 for node and v5.6.0 ( for the current development environment ).

1. Once you have your npm and Node.js set up on your local machine, please go to ‘umbuy\project\umbuy\web>’ directory where you could see ‘package.json’.
2. Run ‘$ npm install’ to install the necessary files such as node\_modules which contain ‘express’, ‘mysql’, ‘aws-sdk’ and etc.
3. You can now get MySQL database ready by referring to How to Setup DB Locally Documentation.docx.
4. If you have successfully installed everything, you should be able to run the server on localhost:4200 by now.
   1. You could run the following command to easily run the project on localhost. Please make sure you run this command on ‘umbuy\project\umbuy\web’ directory.

$ npm run localhost $username $password

Replace $username and $password with your username and password you use to login into your local database on your machine

* 1. You can run Karma testing by running,

$ ng test

* 1. Refer to Setup Web Tests Locally.docx in “Web App Documentation” folder to setup your machine for system tests and then you can run e2e testing (system tests) by running,

3) $ npm run systemTests $username $password

Replace $username and $password with your username and password you use to login into your local database on your machine

* 1. You can build your own dist file by running,

$ ng build –prod