**Western Online Timetable Application**

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Part II Frontend Part

1. Angular Introduction

The developers of Angular is Google, it is first released in 14th September 2016 and current version is 9.1.0. Angular(“Angular 2+”) is a open-source web application framework led by the Angular team at Google and originally, the rewrite of AngularJS was called “Angular 2”, but this led to confusion among developers.

Angular has MVC based Architecture for application development and we can use it with NPM and without npm(cnd etc) but 90% developer use NPM with it so we learn it with NPM package. From Angular framework we can learn a lot of things. For example the basic, components, lift cycle, forms, API call, Auth, Service, Project and Interviews.

1. Angular Installation

First we should ensure that node and npm should be installed, then we can install angular for command line.

**npm install -g @angular/cli**

After angular/cli has been configured, we can create a new application and then change directory into application directory, finally we can open the environment by listening to 4200 port(localhost:4200). What we should notice is that when creating a new Angular App, css style should be chosen, rather than SCSS, Sass, Less and Stylus.

**ng new AngularApp**

**cd AngularApp**

**ng serve**

1. File and folder structure
2. Package.json file

It includes the application name, version, what commands you are using and dependencies. Most of dependencies are installed in the node modules.

1. Node Modules.

We can find a lot of node modules are installed in the node module folders.

1. Src folder

It is can be seen that some important files and folders are in the src folder which includes app folder, environment folder, asset folder, index.html, main.ts, style.css, test.ts etc. Index.html is the entry point of our Angular App and the most important part is the <app-root></app-root> . Every module should be imported in app.module.ts file. Components basically have 4 files: app.component.css, app.component.html, app.component.spec.ts, app.compoent.ts.

1. Component

Component is basically a piece of code which is designed for a single task. For instance, we can make a header , footer or sidebar component.