# A. Install ExpressJS

> \$npm install –g express

# **B.** Creating Express Applications

1. \$express <u>ProjName</u>

**ProjName** is the name of your application

2. \$cd ProjName

Change to the application directory

3. \$npm install Install the application

➤ \$npm install –g express-generator

4. \$node ./bin/www check if it is correctly created

5. \$npm install <u>mysql</u> --save
If you want to intall <u>mysql</u> package

6. \$npm uninstall stylus --save
If you want to remove stylus package

# C. Directory structure

**ProjName** 

package.json			Check your packages and start options
app.js			1 <sup>st</sup> URL mapping, 1 <sup>st</sup> API routing, other configurations
bin	www		
node_modules			Modules you have installed
public	images		
	stylesheets		
	javascripts	controllers.js	AngularJS controller
	***.html		HTML files
routes	***.js		Route page URL to HTML files
views			
services	*Service.js		Services of 2 <sup>nd</sup> API routing
models	*Model.js		Models with database connections

#### D. Angular JS side

Update /app.js

Update /routes/\*\*\*.js

Update /public/\*\*\*.html, /public/javascripts/controllers.js, ...

Note: test on the way can help you saving debug problems.

### E. ExpressJS side

Update /app.js

Update /services/\*Service.js

Update /models/\*Model.js

```
$routeProvider.
                                                                                                             when('/url/:p', {
                                                                                                                 controller: '*Controller',
                                     router.get('/', function(req, res) {
                                                                                                                 templateUrl: '*.html'
                                         res.render('index');
                                                                                                             }).
                                     });
                                                                                                                         /public/javascripts
                                                                                                           2<sup>nd</sup> layer
                                    layer .
                                                                       direct
                                                                                   /public/index.html
                      /app. js
                                               /routes/index. js
Browser
                                                                                                                           /controllers. js
          request
            var routes = require('./routes/index');
                                                                <div ng-view=""></div>
            var users = require('./routes/users');
            app.use('/', routes);
                                                               <script src="javascripts/controllers.js"></script>
            app.use('/users', users);
                                                                                                                           /public/*.html
                                                                               <div ng-controller="*Controller">
                                                                                                                         /public/javascripts
                                    *App.controller('*Controller', function ($scope, $routeParams, $http) {
                                                                                                                           /controllers. js
                                           $http.get("/services/users").
                                               success(function (response) { $scope.data = response; });
  AngularJS
  ExpressJS
                                                                   router.get('/', function(req, res, next) {
                                                                                                                                     1 st API
                                                                       UserModel.getUserList(req, function(result) {
                                                                                                                                    routing
                                                                     Call_Stack
                                                                                                                 <sup>d</sup> API
                                                                                      /services/*Service.js
                                            /models/*Model.js
      DataBase
                                                                                                                               /app. js
                    function UserModel() { }
                                                                                        var userService = require('./services/UserService');
                    UserModel.prototype.getUserList = function(req, done) {
                                                                                        app.use('/services/users/', userService);
                       this.query(req, queryStr, done);
```