Zero: my goal is to find out if the graph can be made into a better-looking type.

First, locate code associated with the graph objects on the Process tab of the CD Dashboard-Client website using Chrome Dev Tool [with 'scroll into view' or 'inspect element']. Result: identified 'nv-linesWrap' among others as a relevant class associated with the graph.

Secondly, Find /Find in Files inside Sublime to search for files containing code snippet 'nv-linesWrap'. Among the found files is nv.d3.js.

Thirdly, go to the nvde.org website to study up. Read up on the Mike Bostok's Towards Reusable Charts [<http://bost.ocks.org/mike/chart/>].

The root directory of the project is C:\Users\sz3160\Desktop\cd-dashboard-client, look into the file nv.d3.js at the path C:\Users\sz3160\Desktop\cd-dashboard-client\bower\_components\angularjs-nvd3-directives\examples\js.

TODO: Trying to figure out how graphing works, in order to explore ways to enrich user experience.

From Elise Eiden (ee550x@att.com): <http://stackoverflow.com/questions/11932767/zoomable-google-finance-style-time-series-graph-in-d3-or-rickshaw>

8. EE suggests that 'just kind of poking around the site and making sure that the way data is displayed makes sense to you would be a great starting point for enhancements.'

9. http://www.w3schools.com/XML/xml\_whatis.asp

10. SVG: https://developer.mozilla.org/en-US/docs/Web/SVG

11. SVG primer: http://www.w3.org/Graphics/SVG/IG/resources/svgprimer.html

7/30/2015: Zach Fisher commit on cd-dash-board-client CodeCloud : 8a0b2a99e4, on 7/29/2015: "Switch from angular-nvd3-directives to angular-nvd3 so the app can use the latest version of NVD3", changed 'nvd3-line-chart' to 'nvd3'. Find Files in Sublime for 'nvd3-line-chart', results include:

C:\Users\sz3160\Desktop\cd-dashboard-client\bower\_components\angularjs-nvd3-directives\examples,multiple files;

C:\Users\sz3160\Desktop\cd-dashboard-client\app\process, multiple files;

C:\Users\sz3160\Desktop\cd-dashboard-client\app\engineering, multiple files;

and build files.

Zach shared that history api does not support start-/end dates, yet so a zoom functionality is not possible. . and there were no docs for api.

C:\Users\sz3160\Desktop\cd-dashboard-client\bower\_components\angularjs-nvd3-directives\examples\lineChart.with.ngRepeat.html:

15

16 app.directive('nvd3RepeatChart', function ($compile) {

17: var template = '<nvd3-line-chart data="chartData" id="exampleId" width="800" height="400" showXAxis="true" showYAxis="true" tooltips="true" interactive="true" margin="{left:50,top:50,bottom:50,right:50}" > <svg></svg> </nvd3-line-chart>';

18 return {

19 restrict: "E",

..

24 compile: function (element, attrs) {

25 scope.chartData = data;

26: var x = angular.element('<nvd3-line-chart data="chartData" id="exampleId" width="800" height="400" showXAxis="true" showYAxis="true" tooltips="true" interactive="true" margin="{left:50,top:50,bottom:50,right:50}" > <svg></svg> </nvd3-line-chart>');

27 element.append(x);

28 $compile(x);

Engineering/Agile Technical Training, file at App/engineering/xp-training/xp-training.tpl.jade:

metric-details

.row

.columns.small-5

p {{xpTraining.meta}}

info-display(text='loading details' ng-show='xpTraining.loadingPeople')

.metric-details\_\_progress-bar(

ng-show='!xpTraining.loadingPeople'

ng-repeat='person in xpTraining.people'

ng-click='xpTraining.toggleShowGraph(person)'

ng-style='{cursor: person.xpCompletions && xpTraining.graph.cur < xpTraining.graph.max ? "pointer" : "not-allowed"}'

ng-class='{"metric-details\_\_disabled": !person.xpCompletions}'

)

div.pull-left

div.pull-left.no-wrap.omnes-medium-font

span {{ person.fName.substring(0, 1) }} {{ person.lName | properize }}

span(ng-if='person.xpCompletions !== undefined') &nbsp;- {{ xpTraining.getProgressBarPercent(person).toFixed(0) }}%&nbsp;&nbsp;

span(ng-if='person.xpCompletions === undefined') &nbsp;- N/A

div.pull-left.no-wrap ( {{ person.xpCompletions }} of {{ person.numEmployees }} employees )

progress-bar.pull-left(

percent='xpTraining.getProgressBarPercent(person)'

options='xpTraining.progressBarOptions'

)

a.metric-details\_\_graph-toggle(ng-if='person.xpCompletions' ng-style='{color: person.history.color}' ng-class='{"light-gray": !person.history.showGraph}')

i.fa.fa-line-chart

.columns.small-7

info-display(text='loading graph' ng-show='xpTraining.loadingGraph')

nvd3-line-chart(

ng-style="{visibility: !xpTraining.loadingGraph ? 'visible' : 'hidden'}"

data="xpTraining.graph.data",

xAxisTickFormat="xpTraining.xAxisTickFormat()",

yAxisTickFormat="xpTraining.yAxisTickFormat()",

x='xpTraining.xFunction()',

y='xpTraining.yFunction()',

height="300",

showXAxis="true",

showYAxis="true",

interactive="true",

tooltips="true"

)

Svg

At the CD-dashboard-Engineering/Agile Technical Training tab, (<http://txcdtl133bs998h.itservices.sbc.com:3000/#/engineering/xp-training>):

1. There are a few tags, [cd-tree=”cd-tree” road-map=”engineering.roadMap”]: are these custom html attributes?

2. What is the difference between ng-scope and ng-isolate-scope?

7/31/2015:

At your project directory, in ConEmu:

1. run npm install -g bower sails
2. Run npm install
3. Run bower install
4. Sails lift, there will be a msg guiding to http://localhost:1337; need to add /index.html to it, see next step.
5. Open in a browser: http://localhost:1337/index.html .

To use browser-sync,

1. npm install -g browser-sync //ignore the red msgs

2. browser-sync --version //to confirm installation

3. browser-sync start --server --files "\*.html, styles/\*.css" //to run from the assets folder

//

# cd-dashboard-client

## Usage

This application was built using the Yeoman generator [dustinspecker/generator-ng-poly](https://github.com/dustinspecker/generator-ng-poly). For component generation use the generator also.

## Setup

1. Run `npm install -g bower gulp yo generator-ng-poly`

1. Run `npm install`

1. Run `bower install`

## Gulp tasks

- Run `gulp build` to compile assets

- Run `gulp dev` to run the build task and setup the development environment

- Run `gulp unitTest` to run unit tests via Karma and to create code coverage reports

- Run `gulp webdriverUpdate` to download Selenium server standalone and Chrome driver for e2e testing

- Run `gulp e2eTest` to run e2e tests via Protractor

- Run `gulp analyze` to run lint and Plato static analysis

- Add a `--stage=['local','dev','prod']` arg to specify which preconfigured API URL to use

- Add a `--stage-url=http://hostname.domain:port` arg to specify which API URL to use, stage-url overrides stage

- Add a `--min` arg to your task command for minified output

## Info

Any feature that can be reused should be placed in the \*\*"common"\*\* folder with their own module folder unless it is just a service then should be placed in \*\*"common/services"\*\*Gulp build/dev

1) Create a new test branch. Name it [yourName]-test or something.

2) Modify the personnel-factory.js file in app/services:

If you do, in the personnel-factory.js file add

id = id === 'sg024v' ? 'mm694y' : id;

Right after:

deferred = personnelDefers[deferredKey] = $q.defer();

Replacing sg024v with your user id. then build the project.

That should let you see everything, it makes the frontend recognise you as Mike Mueller

Its down around line 94 of the personnel-factory file

3) Then run

gulp dev --stage-url=http://cd.dev.att.com:9001

//If dev environment is ever to go down, try using test environment with the below command

4) gulp dev --stage=test

8/3/2015: Qs:

1. In ~/bower\_components/angular-nvd3/dist/, **. bower.json and bower.json** both list ‘angular-nvd3’ as "An AngularJS directive for NVD3.js reusable charting library (based on D3.js)".

"dependencies": {

"angular": "^1.x",

"d3": "^3.3.13",

"nvd3": "^1.7.1"

};

.bower.json lists "\_source": <https://github.com/krispo/angular-nvd3.git>.

In ~/bower\_components/angularjs-nvd3-directives/src/directives", angularjs-nvd3-directives" are "description": "Angular.js directives for nvd3.js.", with

"dependencies": {

"angular": "~1.2.4",

"d3": "~3.4.1",

"nvd3": "~v1.1.15-beta"

},

Automatic refresh page: <meta http-equiv="refresh" content="5">

**For adding an event to click on the bars, use this on your chart function:**

d3.selectAll("rect.nv-bar").on("click", function (d) { // You can pass d to function to recover x ou y value of the bar

// Whatever you want to do on click

});

D. Schonfeld implement fixed time boxed views on detail page graphs to easily see my team’s history over fixed time length, 30D, 60D, 90D, 120D API field NumDays-Mike Mueller.)

Acceptance criteria:

~~To hover over a specific~~ (x,y) –already available with new nvD3

* User has ability to select in 30D increment, 30D, 60D, 90D, 120D, default is the entire history or 30D?
* graph would adjust to increments.(default range is the past 30D)
* On all detail pages listed.
* ?Team interested in 14 day view.

<http://tex.stackexchange.com/questions/103282/convert-latex-to-svg-online>

<http://krispo.github.io/angular-nvd3/#/quickstart to study angular nvd3> directive. Do the example bar chart, and page did not show either by ‘Open with’ or browser-sync. Muhammad Abdusamad walked me through the debugging, and figured out that I did not close my module ‘myApp’.

Muhammad thinks Sublime Package Control is useful.

Git clone is like git remote add origin and git pull., I think.

[Zoom Options](http://stackoverflow.com/questions/13196545/is-it-possible-to-have-zooming-option-in-nvd3-charts-as-like-in-highcharts): http://stackoverflow.com/questions/13196545/is-it-possible-to-have-zooming-option-in-nvd3-charts-as-like-in-highcharts

* [Answer1](http://nvd3.org/examples/lineWithFocus.html): nv.models.lineWithFocusChart().

[details: nv.addGraph(function(){

var chart = nv.models.lineWithFocusChart(); etc});]

* [Answer2](http://jsfiddle.net/cqNkB/): by altering the nvd3 source file function addZoom(options){}

8/5/2015: [global vs local installment](http://insider.web.att.com/s/s.dll?spage=hb/index.htm&site=empnet): the directories **not quite match**.

[Responsive SVG logo](http://insider.web.att.com/s/s.dll?spage=hb/index.htm&site=empnet): SVG to graphics is what XHTML to text. [InkSpace](http://insider.web.att.com/s/s.dll?spage=hb/index.htm&site=empnet) is a free tool.Install InkSpace 0.91. Made checkMateLogo.svg and .png images. [Insert as alt image](http://stackoverflow.com/questions/18474564/bootstrap-3-navbar-with-logo) for the CheckMate logo: push the insertion work to CodeCloud CheckMate.

Look for for "ng-repeat="person in xpTraining.people"" in all of cd-dashboard-client: find in C:\Users\sz3160\Desktop\cd-dashboard-client\build\engineering\xp-training\xp-training.tpl.html:

So look in for <!--ngRepeat:person in xpTraining.people -->

CookieWang

Using a jade conversion site George Li shared: http://jade-lang.com/demo/

Convert xp-training.tpl.jade to xp-training.tpl.html, which contains:

<nvd3 ng-style="{visibility: !xpTraining.loadingGraph ? 'visible' : 'hidden'}" data="xpTraining.graph.data" options="xpTraining.graph.options"> </nvd3>

Find [data="xpTraining.graph.data"] in all of cd-dashboard-client

Convert metric-details-directive.tpl.jade to .html: in this file , div class="metric-details\_\_header\_\_metric" displays {{ ((metricDetails.meta.percentage)\*100 || 0).toFixed(0) }} and <div class="metric-details\_\_description columns columns small-12"> displays {{ metricDetails.meta.description }}</div>

**Shuyu(9:53:00 AM):** Hi,Zack! I am Susie, one of the interns. David (Schonfeld) and I are looking for ways to enhance charts functions (e.g zoom) at CD Maturity Model app. I saw that you have committed at cd-dash-board-client CodeCloud : 8a0b2a99e4 on 7/29/2015 so that we can now use the new NVD3. Thank you so much. Would you keep David and I informed on any pertinent advancement that you make on this effort? I would appreciate very much if there is any suggestions that you have for me.

**Zach Fisher(9:55:16 AM):** ok. the history api doesn’t support start/end dates yet so a zoom functionality really isnt possible

**Shuyu(10:04:34 AM):** OK,thank you.Would you point me to the docs about that limitation please? Sorry for my rudimentary question.

**Zach Fisher(10:05:14 AM):** i wish there were docs for the api, but they dont exist yet either

**Shuyu(10:05:43 AM):** How do you know then?:)

**Zach Fisher(10:06:47 AM):** Mike Mueller and a few others created them, so they told me how they worked

**Shuyu(10:11:44 AM):** Thanks a bunch

8/6/2015: study [Nvd3 github documentation](https://github.com/novus/nvd3/wiki/Models)

<nvd3 options=’options’ data=’data’> </nvd3>

Options: chart type, height, margin, x label, y label, transition Duration, XAxis, yAxis.

Data: key: , value:[{label: , value}]

[Es6](http://www.frontendjournal.com/javascript-es6-learn-important-features-in-a-few-minutes/) var is function-scoped (hoisting) and let is block-scoped.

const

Look into Rally: US514433 of TMNT: Spike: Research Best Implementation of Graph Detail Points

As a user

I want to be able to see details crowded/cluster points

So that there is clarity in the metrics.

Acceptance Criteria:

* Mock up options

**Shuyu(10:58:21 AM):** Zoom Options:<http://stackoverflow.com/questions/13196545/is-it-possible-to-have-zooming-option-in-nvd3-charts-as-like-in-highcharts>  
(summary:• [Answer1](http://nvd3.org/examples/lineWithFocus.html): nv.models.lineWithFocusChart().  
[details: nv.addGraph(function(){  
var chart = nv.models.lineWithFocusChart(); etc});]  
  
• [Answer2](http://jsfiddle.net/cqNkB/): <http://jsfiddle.net/cqNkB/> by altering the nvd3 source file function addZoom(options){}

**Shuyu(11:00:38 AM):** Zach, Do you think the above two option may be valid for allowing zoom?

Set Chrome as the default browser, in hamburger bar/Setting

[Require, expose](http://openmymind.net/2012/2/3/Node-Require-and-Exports/): js

In engineering-controller.js: engineering Ctrl ($scope, OrgDrilldown, Overview)?

8/7/2015: try catch finally to handle exceptions (e).

Angular’s watch and [watchCollectio](http://www.bennadel.com/blog/2566-scope-watch-vs-watchcollection-in-angularjs.htm)n

Module(‘’).config(config); function config($stateProvider){$stateProvider.state([module name]’, { url: , templateUrl: , controller: });

App/services/details-utility-factory.js provides detailsUtility function

8/10/2015: [Bootstrap Modal](http://www.sitepoint.com/understanding-bootstrap-modals/)

[Pseudo](https://css-tricks.com/almanac/selectors/a/after-and-before/) element ::after and ::before

Angular.tutorial: https://docs.angularjs.org/tutorial/

-run npm test in the background all the time . How to do that?

[Restangula](http://arian-celina.com/implementing-rest-services-in-angularjs-using-restangular/)r :

8/12: add .metric-details\_\_progress-bar:nth-child(2) {

border: 2px solid @mediumGray;

font-weight: bolder;

} in metri-details.less; remove line 4 from xp-training.tpl.jade to unify architecture s across all stadiums to be able to use the nth child modification. Results of gulp unitTest:

-----

sz3160@TXCDTL133BS998H /c/Users/sz3160/desktop/cd-dashboard-client (szdev)

$ gulp unitTest

[14:40:39] Using gulpfile c:\Users\sz3160\desktop\cd-dashboard-client\Gulpfile.js

[14:40:39] Starting 'lint'...

[14:40:41] Starting 'karmaFiles'...

[14:40:43] Finished 'karmaFiles' after 2.33 s

[14:40:44] Finished 'lint' after 5.81 s

[14:40:44] Starting 'unitTest'...

INFO [karma]: Karma v0.12.37 server started at http://localhost:9876/

INFO [launcher]: Starting browser PhantomJS

INFO [PhantomJS 1.9.8 (Windows 7 0.0.0)]: Connected on socket p0RRWNOEbeW7jhZJbd6n with id 89976526

WARN [web-server]: 404: /images/cd-logo.png

[14:40:51] Finished 'unitTest' after 6.2 s

8/13/2015: [Sacha Barber’s take](http://www.codeproject.com/Articles/637430/Angular-js-example-application) on Angular js

8/14?201%: [ngClass](https://scotch.io/tutorials/the-many-ways-to-use-ngclass): <div ng-class=”text-type”> <div ng-class=”[styleOne, styleTwo]”>

Or <div ng-class=”{‘styleOne’:evaluation1, ‘styleTwo’:evaluation2}”> $even, $odd, first, &last,

<div ng-class=”$variableToEvaluate ? ‘class-if-true’: ‘class-if-false’”>

[And special](http://cssdeck.com/labs/simple-css3-heart-pulsing-animations) properties of ngRepeat

As a user

I want know know why a leader has no information in Agile Basics

So that I know the reasoning.

Iteration 8/17-8/28: : Acceptance Criteria:

* Have a button that denotes that the reason a direct report is greyed out/no information because they have less than 5 iterations in Rally and metrics require that minimum.

8/17:Docker[: not boot2Docker anymore](https://www.airpair.com/node.js/posts/getting-started-with-docker-for-the-nodejs-dev): **expose port 8080** of the **host** (VirtualBox) as the port 3000 of the container (VM):

AngularJS and scope.$apply [by Jim Hoskins](http://jimhoskins.com/2012/12/17/angularjs-and-apply.html): “If you write any code that uses Ajax without $http, or listens for events without using Angular’s ng-\* listeners, or sets a timeout without $timeout, you should wrap your code in $scope.$apply “

If your code isn’t wrapped in a function passed to $apply, and it throws an error, that error is thrown outside of AngularJS, which means any error handling being used in your application is going to miss it. $apply not only runs your code, but it runs it in a try/catch so your error is always caught, and the $digest call is in a finally clause, meaning it will run regardless of an error being thrown.

$watch How the $apply Runs a $digest: [here](http://angular-tips.com/blog/2013/08/watch-how-the-apply-runs-a-digest/)

[8/18: traversing array in angularjs with angular.forEach or some](http://community.sitepoint.com/t/foreach-object-array-problem-angularjs/37903)

[Another way](http://stackoverflow.com/questions/19544904/ng-repeat-access-key-and-value-for-each-object-in-array-of-objects):

[Five ways](http://stackoverflow.com/questions/13813254/how-do-i-conditionally-apply-css-styles-in-angularjs):ng class ng style ng show/hide; ng-if ng-switch; ng-disabled, ng-animate

Add elements on condition of current elements. 1: ng-class ,

.largeWidth {

width: 100%;

}

.smallWidth {

width: 0%;

}

// [...]

ng-class="{largeWidth: myVar == 'ok', smallWidth: myVar != 'ok'}"

Pseudocelement css (in css)

2: ng-show (in tpl);

There's more than one way to do this. I personally like the declarative which means keeping your view very descriptive and free of logic. So something like this.

<div ng-show="editingAllowed(item)">Edit</div>

or use ng-if

and then in your controller

$scope.editingAllowed = function(item){

//You can add aditional logic here

if(item.status==='New'){

return true

}

}

What's nice about this is your editingAllowed function could be re-used in other directives. I'm guessing other parts of your view will depend on whether editing/deletion is allowed. You can even put that function in a service to re-use across your entire app.

3. Transclude (in directive.js) 4, ngMessages

5 ng- [style](http://stackoverflow.com/questions/19375695/angular-ng-style-with-a-conditional-expression)

ng-style="{ width: getTheValue() }"

//or

ng-style="{ width: myObject.value == 'ok' ? '100%' : '0%' }"

1. Ng-if :

For example, the Delete button would only show for 'New' and 'Completed', but not for 'In Progress'.

**HTML:**

<button ng-if="showDelete(item.Status)">

...

</button>

**JS:**

$scope.showDelete = function(itemStatus){

var testStatus = ["New", "Completed"];

if(testStatus.indexOf(itemStatus) > -1){ //test the Status

return true;

}

return false;

}

function isBiggerThan10(element, index, array) {

return element > 10;

}

[2, 5, 8, 1, 4].some(isBiggerThan10); // false

[12, 5, 8, 1, 4].some(isBiggerThan10); // true

Details.facotry line 83for pie chart

Line Chart type 246

Extract history 209

Toggle 226?

8/19:

angular.module('ngToggle', [])

.controller('AppCtrl',['$scope', function($scope){

$scope.custom = true;

$scope.toggleCustom = function() {

$scope.custom = $scope.custom === false ? true: false;

};

}]);

Absolutely positioned elements are removed entirely from the document flow.

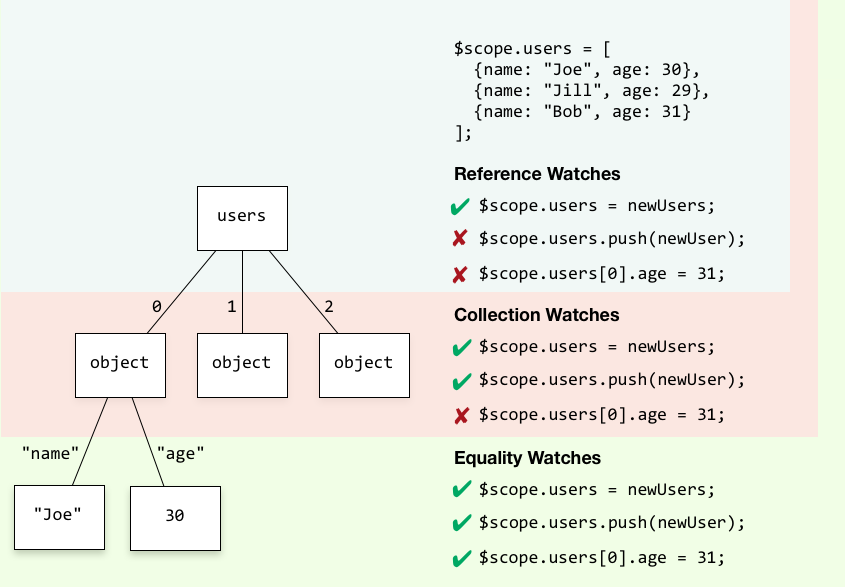
fixed positioning is a special form of absolute positioning: are fixed relative to the viewport/browser window rather than the containing element. Whereas the position and dimensions of an element with position:absolute are relative to its containing block, the position and dimensions of an element with position:fixed are always relative to the initial containing block. This is normally the viewport: the browser window or the paper’s page box.

<http://jsonviewer.stack.hu/>

<http://marianoguerra.github.io/json.human.js/>

To create shortkey, in /h drive, in the .bash\_profile file, make aliases=” “.

8/20: [3 levels of watch](http://teropa.info/blog/2014/01/26/the-three-watch-depths-of-angularjs.html):



Level 1: reference watch

|  |
| --- |
| $scope.$watch(…, …, false); |
| Or $scope.$watch(…, …); |

Level 2: $scope.$watchCollection(…, …);

Level 3: $scope.$watch(…, …, true);

 used

elm.children('.class-name-or-whatever')

to get children of the current element

[function expression and function declaration](https://javascriptweblog.wordpress.com/2010/07/06/function-declarations-vs-function-expressions/)

8/24/2015: console message: “Uncaught TypeError: Cannot read property 'update' of null: angular-nvd3.js:149. Find this : <https://github.com/krispo/angular-nvd3/issues/109>

Change background color of the info button;

* created style=color:red as a property of button: works;
* created .warning class in process.less: does not make a difference, the color orange persists even without the class. Ctrl Shift Find for button.warning, and found button.warning definition in bower components/foundation/css/foundation.css. These are apparently automatically loaded to the codebase during build.

Foundation alert method:

[Semantics vs syntax](http://programmers.stackexchange.com/questions/113800/whats-the-difference-between-syntax-and-semantics):

8/25: [watch apply and digest](http://tutorials.jenkov.com/angularjs/watch-digest-apply.html):by Jakob Jenkov

$scope.$watch(function(scope) { return scope.data.myVar },

function() {}

);

The value function should return the value which is being watched

The listener function should do whatever it needs to do if the value has changed.

$scope.$watch(function(scope) { return scope.data.myVar },

function(newValue, oldValue) {

document.getElementById("").innerHTML =

"**" + newValue + "**";

}

);

Of course you could have done this using the code **{{ data.myVar }**, but this is just an example of what you can do inside the listener function.

The $digest() function is called whenever AngularJS thinks it is necessary. For instance, after a button click handler has been executed, or after an AJAX call returns (after the done() / fail() callback function has been executed).

You may encounter some corner cases where AngularJS does not call the $digest() function for you. You will usually detect that by noticing that the data bindings do not upate the displayed values. In that case, call$scope.$digest() and it should work. Or, you can perhaps use $scope.$apply() instead which I will explain in the next section.

Learning [Spring’s RESTful Web Service](https://spring.io/guides/gs/rest-service/)

Extract Gradle 2.6 to C:\Program Files

Frank Wang recommends [http://www.tutorialspoint.com//restful/index.htm](http://www.tutorialspoint.com/restful/index.htm)

To set the path for Java, in ControlPanel/System/advanced system setting, in environmental viraiable, set for both personal and systemic :

JAVA\_HOME: C:\Java\jdk1.8.0\_51;

PATH as C:\Java\jdk1.8.0\_51\bin (bin is where the action comes from and has to be the last of path)

To create new class, selecting a project for its home; select a main method; save-this compiles it; right click button to access the run as command.