

## Hello Tangent

Good day. I used the lightest technology that I know. Angular. Light footprint. Quick test and reload. The back end is normally a Java JWT web service reading from an Oracle database or MongoDB, or a .NET WEBAPI web service reading from a SQL server database.

## Running the assessment application

Please put the folder in an active web server folder and execute. I tested it on tomcat, glassfish and iis. Please Note: **When it runs in the Browser, this app needs a live internet connection because it loads some files from the internet.** This is optional. I have copies of the JavaScript files in the JS folder.

TANGENT	Welcome to TanGenT ERP									Stats	0 Notifications	Settings	Logout
DASHBOARD	Employees												
EMPLOYEES	Here is the list of employees												
RELATION STATS	Index	Position	First Name	Last name	Email	Birth Date	Phone Number	Gender	Race	Action			
BIRTHDAYS	1	Front-end Developer	Captain	America	captain@gmail.com	1981-07-30	0824478876	M	B				
MY PROFILE	2	Back-end Developer	Gary	Player	gary.player@gmail.com	1990-08-09	0837788876	M	W				
	3	Front-end Developer	Ian	Roberts	ian@tangentsolutions.co.za	1983-12-23	0875677663	M	W				
	4	Back-end Developer	Jacob	Zuma	zumu@gov.co.za	1971-09-09	0832322778	M	B				
	5	Front-end Developer	James	Dean	james@email.com	1980-03-30	0873722777	M	I				
	6	Front-end Developer	Joe Employee 1	Bloggs	bloggs@gmail.com	1995-01-01	0827767889	M	N				
	7	Project Manager	Pravin	Gordhan	pravin@axedmps.com	1951-12-12	0828899987	M	B				
	8	Back-end Developer	Sue	Beans	sue@tangent.co.za	1990-09-21	0872828817	F	C				
	9	Front-end Developer	Super	Man	mike@tangentsolutions.co.za	1981-02-17	0744925023	M	W				
	10	Project Manager	Thandi	Plain	thandi@gmail.com	1988-02-08	0728998700	F	B				

## Javascript Customisation

I did some JavaScript customisation to prepare the web service output for authentication and rendering. Basically storing the token for subsequent use and re-arranging web service data in new arrays for display.

## Unit Test Customisation

Using NODEJS, I configured karma and jasmine and configured my token unit tests.

I just did a skeleton stub to ensure that my ability is proven.

**Karma v3.0.0 - connected**

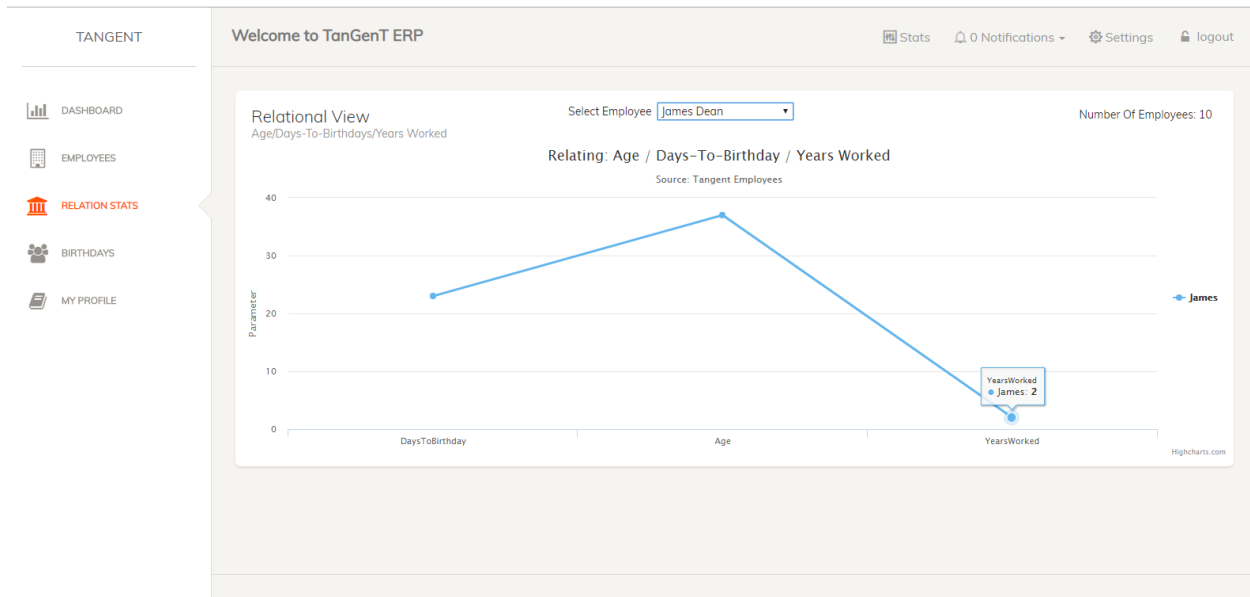
DEBUG

Chrome 68.0.3440 (Windows 10 0.0.0) is idle

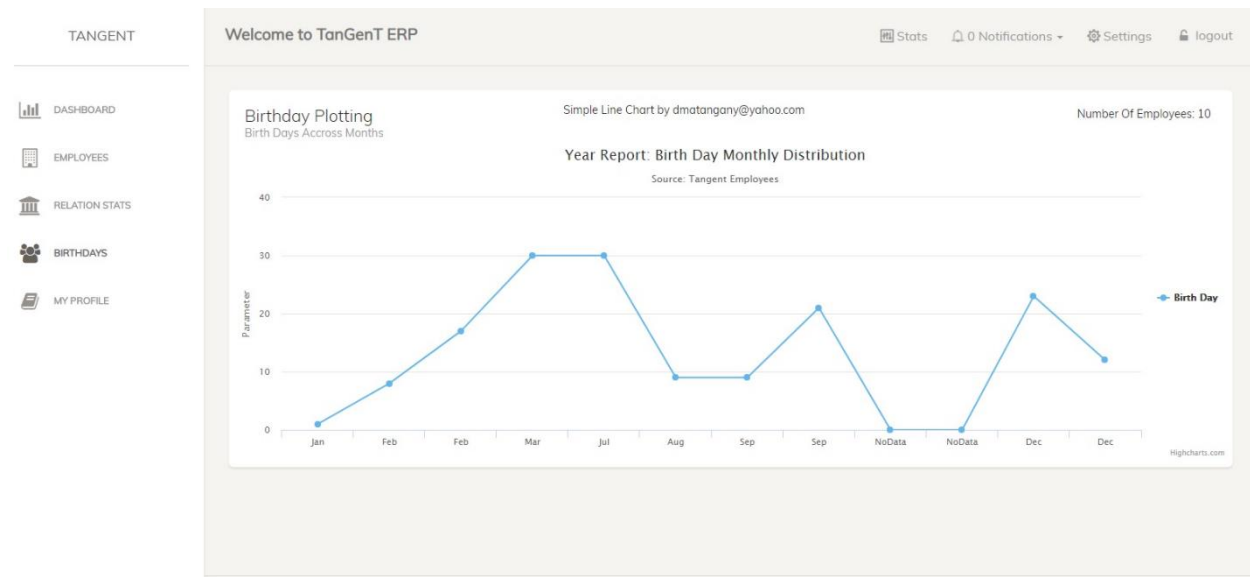
## Application Overview

The application gets data from the Tangent web service. Under Employees, the panel lists all the employees that are given by the web service. From the employees page, you can hyperlink to the employees' individual relation stats data.

Under **Relation Stats**, I tried to depict a relationship of the ONLY numerical data types in the employee web service, as in [years worked, age and days-to-birthday]. This is not really an objective chart but simply illustrates possibilities.



Under **Birthdays**, the birthdays of the ten persons in the web service are listed. I had to reorient the data, re-sort it and display the new calendar based array.



Many thanks for this opportunity.

**Regards**

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