

Hello Tangent

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 webservice reading from a SQL server database.

Running the assessment application

1. Just put the folder in a web server folder and execute. I tested it on tomcat, glassfish and iis.
2. Please Note: The app needs a live internet connection because it loads some files from the internet. This is optional. I have copies of the files in the JS folder.

The screenshot shows the TanGenT ERP dashboard. On the left is a sidebar with navigation links: DASHBOARD, EMPLOYEES (highlighted), RELATION STATS, BIRTHDAYS, and MY PROFILE. The main content area is titled 'Welcome to TanGenT ERP' and features a table of employees. The table has columns for Index, Position, First Name, Last name, Email, Birth Date, Phone Number, Gender, Race, and Action. There are 10 employees listed. At the top right of the dashboard, there are links for Stats, Notifications (0), Settings, and Logout.

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

Javascript Customisation

I did javascript customisation to prepare the web service output for authentication and rendering.

Unit Test Customisation

Using nodejs, I installed karma and jasmine and configured my unit tests.

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

Karma v3.0.0 - connected

DEBUG

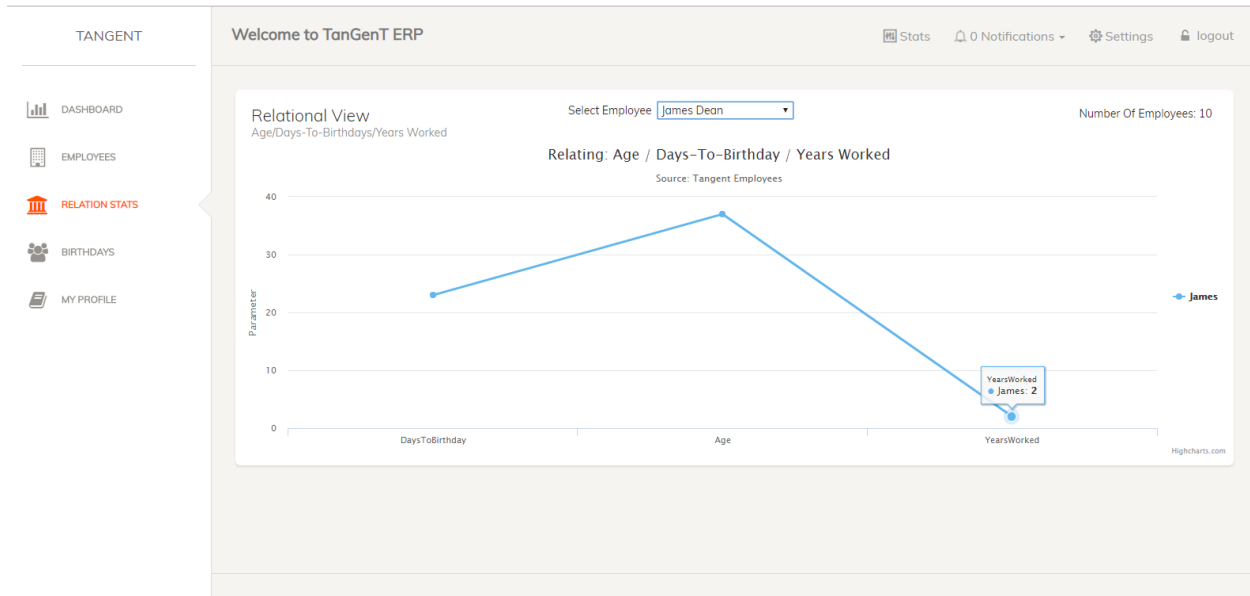
Chrome 68.0.3440 (Windows 10 0.0.0) is idle

Application Overview

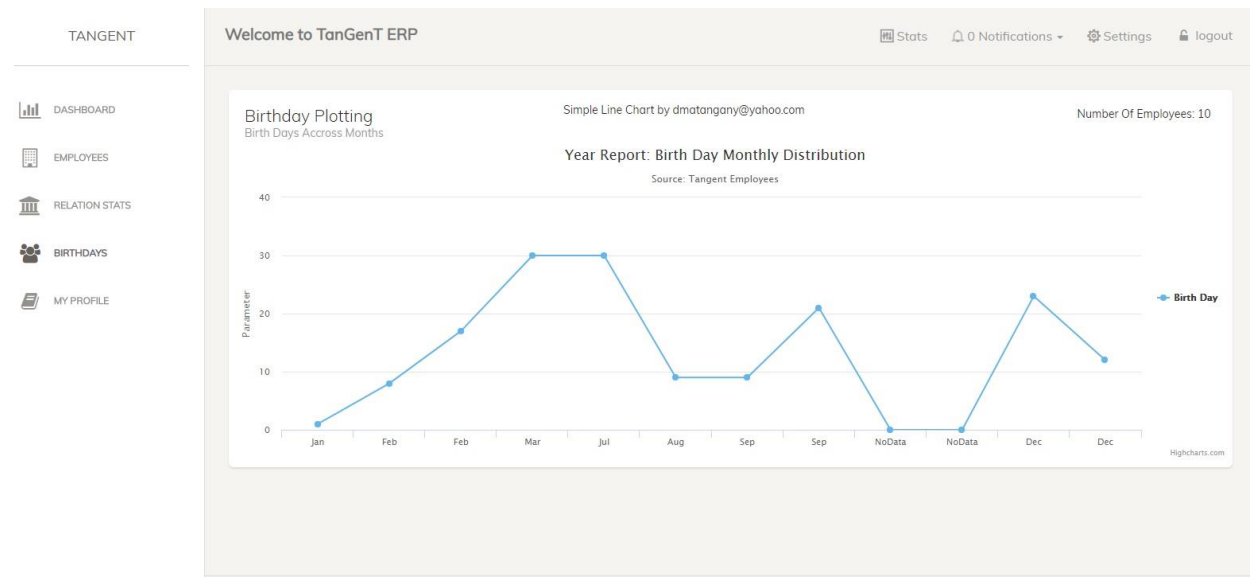
The application gets data from the Tangent web service.

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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