# Reinhardt Francois Vetter Technical Assessment



Proof of Concept Documentation 16<sup>th</sup> November 2019

## Contents

Introduction	
Installation	
User Guide	
View Corporate Structure	
Search for Employees	
Identify a list of Employees based on their Date of Birth	8
Rank Earnings	11
Conclusion	

### **Introduction**

The purpose of this document is to explain the Proof of Concept application that I have developed for a technical assessment for EPI-USE.

The Application consists of:

- An MS SQL database
- An ASP.NET MVC API
- A C# Windows Forms Application

The database and API are hosted online with AbsoluteHosting.co.za

The API's URL is: <a href="http://pocassessmentapi.co.za/">http://pocassessmentapi.co.za/</a>

The C# program will automatically request the required data from the API.

The Application does the following (Detailed under "User Guide"):

- Generate and Display the Corporate Structure in a tree data view.
- Search for employees via their Name/Surname/Employee Number/Role.
- Identify employees born before or after a specified date.
- Report on the highest earnings, grouped per role, with additional information.

The source code, DB scripts etc. can be accessed from 2 sources, at your convenience:

- A GitHub Repository: <a href="https://github.com/Caliban491/TechnicalAssessment">https://github.com/Caliban491/TechnicalAssessment</a>
- A Google Drive Folder (Zipped): <a href="https://drive.google.com/drive/folders/1VIiE4m-iHquq5Ux7EeCAv88fgmWCtwbl?usp=sharing">https://drive.google.com/drive/folders/1VIiE4m-iHquq5Ux7EeCAv88fgmWCtwbl?usp=sharing</a>

## **Installation**

This application requires Microsoft's .NET Framework. The installer might request to install .NET Framework, which is an automated process. (Installer will download the necessary package/s from Microsoft).

Please open the folder from the GitHub Repo/Drive Folder and navigate to:

C#\_Program > POC\_Setup > Debug > setup.exe

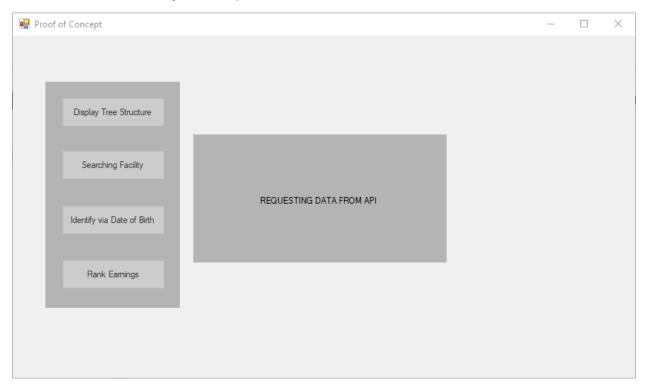
Follow the prompts to install the application. A shortcut will be on your desktop called "Proof of Concept". Simply run it to run the application.

To **Uninstall**: In your Programs and Features, simply uninstall the program listed as POC\_Setup.

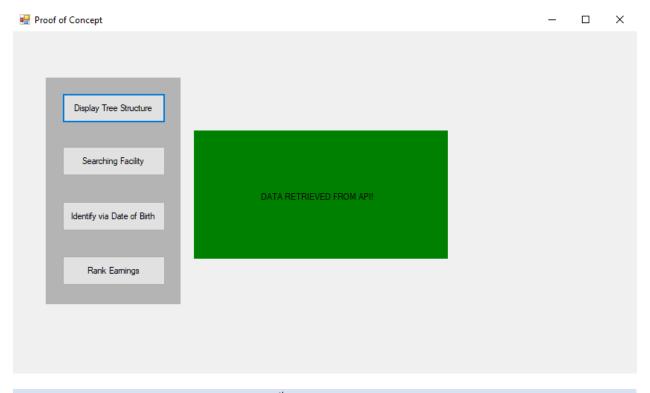
## **User Guide**

Please ensure that you have an internet connection before opening the application.

This is the first screen you'll be presented with:

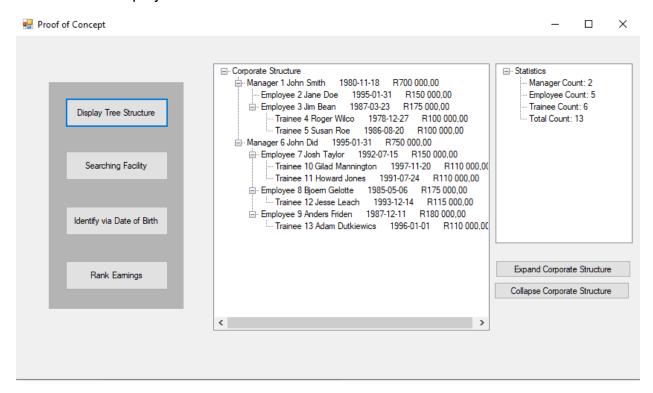


Once the data is retrieved from the API, the buttons will unlock:



#### **View Corporate Structure**

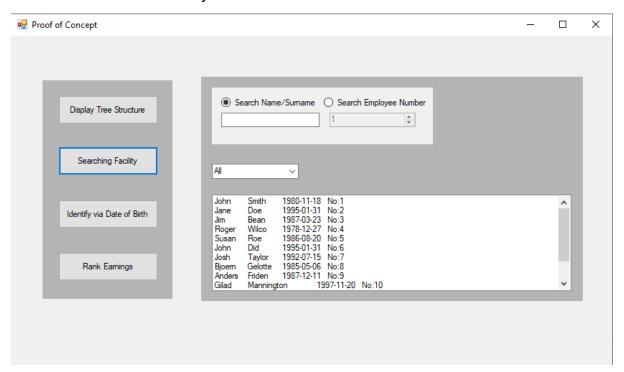
Click on the "Display Tree Structure" button on the side menu.



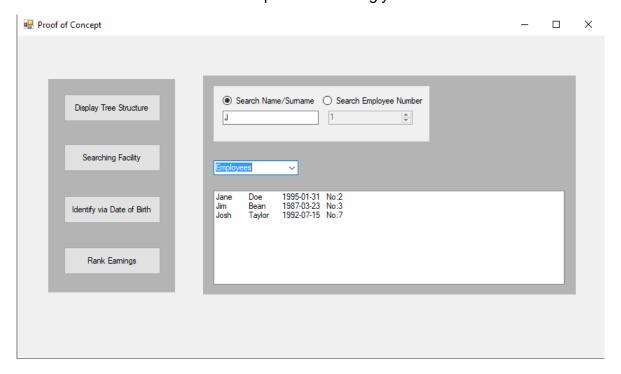
You can use the buttons on the right to expand or collapse the tree structure.

#### **Search for Employees**

Click on the "Search Facility" button on the side menu.

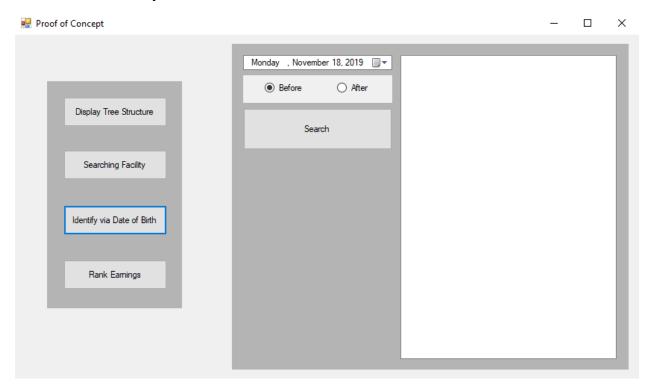


As you enter/change the search criteria in either the textbox or the numeric edit (or change the filter in the combo box between "All", "Managers", "Employees or "Trainees") the results in the rich text edit will update accordingly:



#### Identify a list of Employees based on their Date of Birth

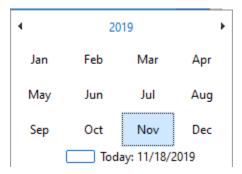
Click on the "Identify via Date of Birth" button on the side menu.



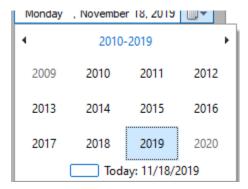
Click on the Date/Calendar on the top to open the date picker, then select a date:



You can click in between the arrows to select a month:



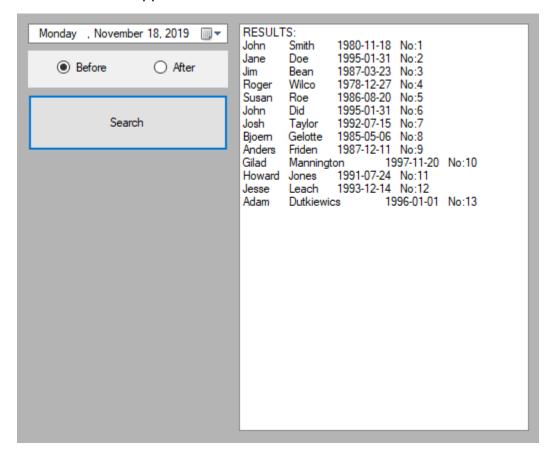
You can click again to select the year:



Then select whether you are looking for employees born before or after the specified date, and then click on the "Search" button:

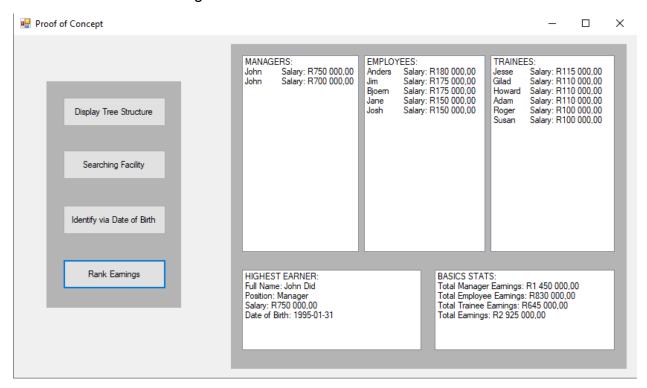


#### The Results will appear in the rich text edit:



## **Rank Earnings**

Click on the "Rank Earnings" button on the side menu.



## Conclusion

This concludes the user guide for the Proof of Concept Technical Assessment by me, Reinhardt Francois Vetter.

If the application does not load the data from the API successfully, please let me know! The API might be offline!