Rysis Software

Test 2 - Intern

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# Overview

This first test will involve writing a test app off site and submitting it.

# About You

|  |  |
| --- | --- |
|  |  |
| Name | Cecil |
| Where do you stay? | krugersdorp |
| Email Address | ceciltebogolaka@gmail.com |
| Gender | Male |
| Age | 25 |
| Telephone Number | 072 987 9295 |
| Number of Years’ experience in software development | 1 year |
| Current Position | Unemployed |
| Current Employer | Unemployed |
| Desired Position | Full Stack Developer |
| Desired Remuneration | R 5 000.00 - R 20 000.00 |

# Develop an App

## App 1 – Read a Text File and Sort Results

Develop a Console application in C# that has the following requirements. If you use another language, you can use what you are more comfortable with.

Create a text file with the following names in them.

1. Create a test file and put the names in the section below as the contents.
2. Your application should read all the file into a list or array of items.
3. The names must be sorted alphabetically (you are not allowed to use .sort() in your application, you need to write your own sorting code.
4. The names should now show surname first and then first name instead of first name then surname.
5. The names should now be numbered as well (ie 1. Fred 2. Peter)

### Names

Marion Kimery

Arla Cordova

Gaynell Shaffer

Dominick Macgregor

Miesha Amaker

Vanna Bilyeu

Tarah Reichel

Francis Mcpheeters

Mittie Baggs

Youlanda Mathieson

Cierra Peralez

Rossie Sunderman

Ken Mulero

Abby Wismer

Dorla Condello

Tracey Fairclough

Kiley Lipton

Terry Troester

Maye Sano

Rosalina Harlin

Dennis Kates

Lilian Whisman

Shakira Neaves

Claude Buchner

Dortha Rode

Dayle Rivet

Hobert Vandyke

Angelena Barley

Patti Tedford

Demetra Conti

Ayesha Chin

Michelina Mcgee

Oneida Lintner

Roosevelt Freas

Faviola Lail

Talia Adamczyk

Noel Kimmer

Michaela Geronimo

Daniel Binette

Kelli Prophet

Tynisha Armendariz

Elba Byrns

Andra Perron

Eulah Toomey

Jetta Constance

Catherin Starns

Shanel Naugle

Bernadette Morriss

Laci Solt

Agustin Sampsel

## App 2 - Develop a Database App and Read / Write Data

1. Create a database called Test

2. Create a table called "Name", this table will have three columns (NameId, FirstName and Surname). NameId will be your primary key and automatically populated with an ID.

3. Read all the names from the Names.txt file and insert them into your database table called "Name".

4. The first name should be inserted into the FirstName column and the surname should be inserted into the Surname column.

5. If the name and surname already exists in your table you should not insert it. So if we run your program multiple times it will not insert duplicates.

6. Once the data is inserted you should connect to your database, fetch the names from the table you have inserted it to and output the data with the following criteria.

- The names must be sorted alphabetically (you are not allowed to use .sort() in your application, you need to write your own sorting code)

- The names should now show surname first and then first name instead of first name then surname.

- The names should now be numbered as well (i.e. 1. Fred

2. Peter)

## Submission

The entire solution folder with source code and binaries are to be zipped up and submitted. The SQL Database needs to be backed up, zipped and submitted. Include any instructions that may be required to get the application running and connecting to the database.

## Declarations

In this section, the developer has to declare the following:

1. All help received by other developer and listing what they helped with and what relation they are to you.
2. All articles used for assistance in writing the app.

\*article used is link at: <https://docs.microsoft.com/en-us/azure/mysql/connect-cpp>

\*First book of C++ fourth Edition by Gary Bronson

1. Any code that was copied has to be specified in the comments of the code file or method and has to be declared here.

* Code copied from YouTube Reference link: https://youtu.be/yNniOHn9Xe0

# Personality Test

Check my personality test results at: <https://www.16personalities.com/profiles/de782fc84ed3e>

# Other Questions

## What level of position are you applying for?

Internship

## What do you feel are your core strengths?

Focused.

Time management.

Critical Thinker.

Innovative.

## What are your favourite types of work to do as a developer?

Database Implementation.

Backend Code Development.

Frontend Code Implementation.

## What are you looking for in a company that you work for?

Personal Growth.

Self-Improvement.

Knowledge.

## What are your favourite technologies that you use?

Angular.

Node.

Mysql.

Vs code.

Postman.

# What Next

We will take a few days to evaluate your submission. Should you be successful, we will then set up an online interview where we will meet you. After that interview, further shortlisted candidates will be required to do another test online in real time via Zoom or MS Teams which will involve developing another application and a questionnaire.