**TEST FOR PROGRAMMER CANDIDATES**

Please fill all the information below:

\* Name: ismail saleh

\* Date of Test: sabtu 26 february 20201

\* Start Time: 10:00

\* Finish Time: 13:00

You have **three hours** to finish the test.

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* **FRONT END**

You have to build at least one of these Web and Mobile Application (preferably both):

* + Web App Framework:
    - Please use a TypeScript/JavaScript framework of your choice. If possible, we prefer you to use ReactJS.
    - If you are not familiar with any TypeScript/JavaScript framework, you may use plain JQuery library.
  + Mobile App Framework:
    - Please use a mobile application framework that allows you to build a cross-platform app for Android and iOS.
    - If possible, please use a non-hybrid framework, e.g. React Native, Flutter, Xamarin. However, we prefer you to use React Native.
    - If you are not familiar with any of those frameworks, you may use any other mobile app framework of your choice.
  + Those web and mobile application will receive a user input using this format: NAME[space]AGE[space]CITY
  + For example: CUT MINI 28 BANDA ACEH
  + The web/mobile application then submit the data to the back-end application using JSON format.

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* **BACK END**

You have to build this RESTful Web Service:

* + Back-end App Framework:
    - Please use a modern PHP framework of your choice. However, we prefer you to use Laravel or Lumen.
    - If you are not familiar with any modern PHP framework, you may use CodeIgniter 3. You can not use plain PHP codes.
  + After the data is submitted, the back-end app parses it to get three data: Name, Age, and City.
  + Those data are inserted into a MySQL table whose fields are:
    - ID (auto increment)
    - NAME
    - AGE
    - CITY
  + The back-end app must be able to handle names and cities using multiple words (no limit). The back-end app also have to convert the name and city data into upper case before inserting them into the table.
  + As for age data, the back-end app must be able to handle Indonesian user's common mistake, which is adding TAHUN, THN, or TH string after the age data. For example:
    - 28 TAHUN, 28 THN, 28 TH
    - 28TAHUN, 28THN, 28TH
  + Please make sure the back-end app is able to handle TAHUN, THN, and TH strings case-insensitively.

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Please fill the information below based on frameworks and IDE (Integrated Development Environment) softwares you are using to build those apps (leave them blank if not applicable for you):

**FRONT END**

TypeScript/JavaScript Framework:

|  |  |  |  |
| --- | --- | --- | --- |
| **Framework**  **Name** | **Framework**  **Version** | **IDE Software**  **Name** | **IDE Software**  **Version** |
|  |  |  |  |
|  |  |  |  |

Mobile App Framework:

|  |  |  |  |
| --- | --- | --- | --- |
| **Framework**  **Name** | **Framework**  **Version** | **IDE Software**  **Name** | **IDE Software**  **Version** |
|  |  |  |  |
|  |  |  |  |

**BACK END**

PHP Framework:

|  |  |  |  |
| --- | --- | --- | --- |
| **Framework**  **Name** | **Framework**  **Version** | **IDE Software**  **Name** | **IDE Software**  **Version** |
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Please create a few screenshots of your apps (enough to demonstrate your apps' capabilities) and copy-paste them below:

|  |  |
| --- | --- |
| **No** | **Screenshot** |
|  | **Image:**  **Description:** |
|  | **Image:**  **Description:** |
|  | **Image:**  **Description:** |

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Please upload your complete source codes and database structure of your apps to a file-sharing platform (i.e. Google Drive, Dropbox, Microsoft OneDrive) and share its URL here:

* URL: ...

https://github.com/Ismail-Saleh/jelajah-tekno-ismailSaleh

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Then please send this document to wahyu.hidayat@bangga.co.id

Thank you.

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