

SayaKaya Project Test - Backend Engineer

Overview

This technical test is for candidates applying for the Backend Engineer position in Sayakaya. The assessment will have one scenario, divided into 3 parts that should be submitted within 2 days' EOD. You are free to use your preferred programming languages. Please send us back the GitHub repository link of your assignment when you are done via email to tech@sayakaya.id. We will get back to you at the earliest with the updates from there. Also, do not hesitate to let us know if there are some queries you would like to ask further.

Assessment Points

1. Functionality
2. Readability
3. Clean code

Scenario

Your system needs to implement a daily scheduler with the purpose of sending a Happy Birthday email / WhatsApp message and dynamically create a Promo that is valid for the current date & current verified birthday users only. The user is then able to buy any Sayakaya product using the created Promo.

The Test

1. Flowchart Diagram

Create a flowchart diagram on how you will manage the process for the scenario. Be creative!

2. Table design

Using the scenario above, visualize how you will create your tables for the database you will be working.

3. Code implementation

Please write at least 3 functions to facilitate the scenario. The functions should include: (for example purpose, we will be using Typescript)

```
fetchUsers = async ({email, verifiedStatus, isBirthday}: UserFilterField) => {}  
  
generatePromoCode = async ({name, startDate, endDate, amount, validUsersID}: CreatePromoField) => {}  
  
sendNotification = async ({notificationType, subject, body, target}: NotificationParams) => {}
```

Good luck and happy coding!