

## Student Enrollment System - Backend Developer Task

Your task is to build a backend API that will allow enrollment of students into the system. The system should capture at least the following for each student:

- First name
- Last name
- Other names
- Gender
- Date of birth
- Department (A Department should have at least the following attributes: ID and name)
- Matric number see item 3 for the format.
- 1. The API service should allow Adding, Updating, Retrieving & Deleting of students.
- 2. The service should provide an API for searching students using any of the following fields.
  - First Name, Last Name, Other Name, Full Name (a combination of First Name, Last Name, and OtherNames), Gender(M or F), Department's Name, Created By, Created Date range i.e A date range in which a student is created, for example, 2020-02-01 12:00:00 to 2020-03-01 23:00:00.
- 3. The service should generate a matriculation number at the point of creating a student using the following format: FLEXISAF/serial-number where the serial number is a unique number to be allocated on a first come first serve basis. For example, the first student to be created will have a serial number of 001, the next student will have 002. So the matric number will be FLEXISAF/001, FLEXISAF/002 respectively.
- 4. The service should ensure that a student must be at least 18 years and not older than 25



5. The service should send a Happy Birthday message to students on their birthdays 049465

## Notes:

- Feel free to use any Java Framework to build the service.
- Make your application Production-Ready. (That is:
  - It compiles / runs
  - Has decent unit test coverage for all business logic code and integration test where necessary
  - Its design was well thought out
  - It's stable
  - It's maintainable
  - It's scalable
  - It's documented)

Finally, push the code to a private repository (E.g Github, Bitbucket, or Gitlab) and share the link with us.

Happy coding!!!