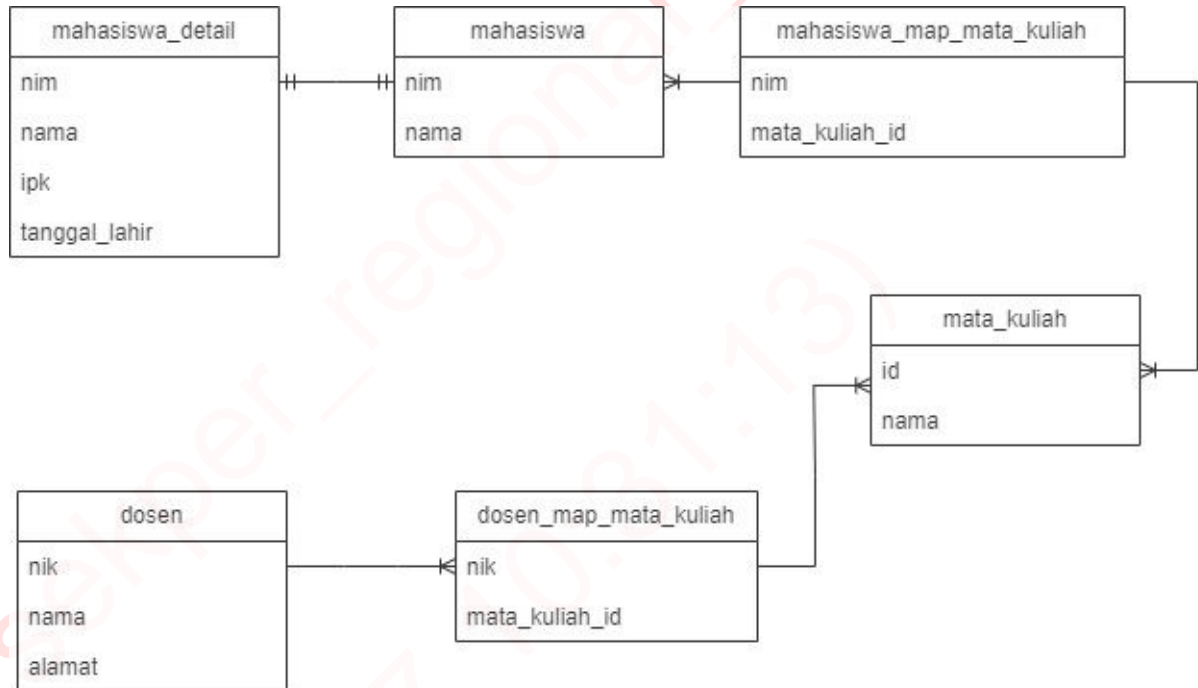# Java Developer Test (Junior)

Objective:

To create a REST API service of Mahasiswa, with CRUD functions such as : create, read, update, delete using Java Spring Boot, JPA Hibernate, and MySQL database.

Design :

Details :

- ✓ Mahasiswa to mahasiswa_detail is one to one.
- ✓ Mahasiswa to mahasiswa_map_mata_kuliah is many to one.
- ✓ Mahasiswa_map_mata_kuliah to mata_kuliah is one to many.
- ✓ Mata_kuliah to dosen_map_mat_kuliah is many to one.
- ✓ Dosen to dosen_map_mata_kuliah is one to many.

Requirements :

1) Create API insert, update, delete, get All for mahasiswa.

   Create API insert, update, delete, get All for mata_kuliah.

   Don't need to create API insert, update, delete for Dosen, just injected by DML.

2) Create API get all details of 1 mahasiswa.

3) Create API get all mahasiswa of 1 dosen.

4) Create API get all mahasiswa of 1 mata_kuliah.

5) Create API get all mahasiswa that older than 20 years old.

Deliverables:

1) Source code through GIT Hub. Please invite following as guest :

- ✓ mark.valentino@smma.id
- ✓ maulana.sulaeman@smma.id
- ✓ luisri.luisri@smma.id

2) Postman / API Documentation

3) DDL and DML

Technology Stack:

1) Language : Java 8 / 11

2) Framework : Spring Boot 2.x.x

3) Database: MySQL

4) JPA : Hibernate