**API Endpoints Postman:**

localhost:8080/

**Major:**

* **POST** api/school/majors: Add New Major
  + Payload :

|  |
| --- |
| {      "name": "ipa"  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Major add successfully",      "data": {          "id": 1,          "name": "ipa"      },      "statusCode": 201  } |

* **GET** api/school/majors: Get All Major
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Major retrieved successfully",      "data": [          {              "id": 1,              "name": "ipa"          },          {              "id": 2,              "name": "ips"          }      ],      "statusCode": 200  } |

* **GET** api/school/majors/{id}: Get Major by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Major retrieved successfully",      "data": {          "id": 2,          "name": "ips"      },      "statusCode": 201  } |

* **PUT** api/school/majors/{id}: Update Major
  + Payload :

|  |
| --- |
| {      "name": "ipa"  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Major update successfully",      "data": {          "id": 2,          "name": "ipc"      },      "statusCode": 200  } |

* **DELETE** api/school/majors/{id}: Delete Major by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Major deleted successfully",      "data": **null**,      "statusCode": 200  } |

**Student:**

* **POST** api/school/students: Add New Student
  + Payload :

|  |
| --- |
| {      "name": "rizky",      "email": "rizky@gmail.com",      "major": 1  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Student add successfully",      "data": {          "id": 1,          "name": "rizky",          "email": "rizky@gmail.com",          "major": 1      },      "statusCode": 201  } |

* **GET** api/school/students: Get All Student
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Student retrieved successfully",      "data": [          {              "id": 1,              "name": "rizky",              "email": "rizky@gmail.com",              "major": 1          },          {              "id": 2,              "name": "ramadhan",              "email": "ramadhan@gmail.com",              "major": 1          }      ],      "statusCode": 200  } |

* **GET** api/school/students/{id}: Get Student by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Student retrieved successfully",      "data": {          "id": 1,          "name": "rizky",          "email": "rizky@gmail.com",          "major": 1      },      "statusCode": 200  } |

* **PUT** api/school/students/{id}: Update Student
  + Payload :

|  |
| --- |
| {      "name": "ramadhanR",      "email": "ramadhan@gmail.com",      "major": 1  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Student updated successfully",      "data": {          "id": 2,          "name": "ramadhanR",          "email": "ramadhan@gmail.com",          "major": 1      },      "statusCode": 200  } |

* **DELETE** api/school/students/{id}: Delete Student by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Student deleted successfully",      "data": **null**,      "statusCode": 200  } |

**Course:**

* **POST** api/school/courses: Add New Course
  + Payload :

|  |
| --- |
| {      "name": "Math",      "credits": 2  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Course add successfully",      "data": {          "id": 1,          "name": "Math",          "credits": 2      },      "statusCode": 201  } |

* **GET** api/school/courses: Get All Course
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Course retrieved successfully",      "data": [          {              "id": 1,              "name": "Math",              "credits": 2          },          {              "id": 2,              "name": "English",              "credits": 2          }      ],      "statusCode": 200  } |

* **GET** api/school/courses/{id}: Get Course by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Course retrieved successfully",      "data": {          "id": 1,          "name": "Math",          "credits": 2      },      "statusCode": 200  } |

* **PUT** api/school/courses/{id}: Update Course
  + Payload :

|  |
| --- |
| {      "name": "English",      "credits": 1  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Course updated successfully",      "data": {          "id": 2,          "name": "English",          "credits": 1      },      "statusCode": 200  } |

* **DELETE** api/school/students/{id}: Delete Course by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Course deleted successfully",      "data": **null**,      "statusCode": 200  } |

**Teacher:**

* **POST** api/school/teachers: Add New Teacher
  + Payload :

|  |
| --- |
| {      "name": "Shinta",      "email": "Shinta@gmial.com",      "course": 2  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Teacher add successfully",      "data": {          "id": 2,          "name": "Shinta",          "email": "Shinta@gmial.com",          "course": 2      },      "statusCode": 200  } |

* **GET** api/school/teachers: Get All Teacher
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Teacher retrieved successfully",      "data": [          {              "id": 1,              "name": "Rama",              "email": "Rama@gmial.com",              "course": 1          },          {              "id": 2,              "name": "Shinta",              "email": "Shinta@gmial.com",              "course": 2          }      ],      "statusCode": 200  } |

* **GET** api/school/teachers/{id}: Get Teacher by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Teacher retrieved successfully",      "data": {          "id": 1,          "name": "Rama",          "email": "Rama@gmial.com",          "course": 1      },      "statusCode": 200  } |

* **PUT** api/school/teachers/{id}: Update Teacher
  + Payload :

|  |
| --- |
| {      "name": "ShintaR",      "email": "ShintaR@gmial.com",      "course": 2  } |

* + Response :

|  |
| --- |
| {      "status": "success",      "message": "Teacher update successfully",      "data": {          "id": 2,          "name": "ShintaR",          "email": "ShintaR@gmial.com",          "course": 2      },      "statusCode": 200  } |

* **DELETE** api/school/teachers/{id}: Delete Teacher by Id
  + Response :

|  |
| --- |
| {      "status": "success",      "message": "Teacher deleted successfully",      "data": **null**,      "statusCode": 200  } |

**Script Table: untuk desain dalam codingin terdapat di bagian folder model->entity**

* **Major**

|  |
| --- |
| **CREATE TABLE Major (**  id BIGINT AUTO\_INCREMENT PRIMARY KEY,  name VARCHAR(255) NOT NULL  **);** |

* **Student**

|  |
| --- |
| **CREATE TABLE Student (**  id BIGINT AUTO\_INCREMENT PRIMARY KEY,  name VARCHAR(255) NOT NULL,  email VARCHAR(255) NOT NULL,  major BIGINT,  FOREIGN KEY (major) REFERENCES Major(id)  **);** |

* **Course**

|  |
| --- |
| **CREATE TABLE Course (**  id BIGINT AUTO\_INCREMENT PRIMARY KEY,  name VARCHAR(255) NOT NULL,  credits INT  **);** |

* **Teacher**

|  |
| --- |
| **CREATE TABLE Teacher (**  id BIGINT AUTO\_INCREMENT PRIMARY KEY,  name VARCHAR(255) NOT NULL,  email VARCHAR(255) NOT NULL,  course BIGINT,  FOREIGN KEY (course) REFERENCES Course(id)  **);** |