

```
1 spring.application.name=jabi
2
3 #Setup JDBC connection
4 spring.datasource.url=jdbc:mvsql://localhost:3306/dbjabi
5
6 #Setup datasource driver
7 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
8
9 #Setup database login credentials
10 spring.datasource.username=jase
11 spring.datasource.password=jase
12
13 #Auto create tables based on entities
14 spring.jpa.hibernate.ddl-auto = update
15 spring.jpa.show-sql=true
16
17 #for stack trace error not to appear
18 server.error.include=stacktrace=never
```

Entity

```
1 package com.g2appdev.jabi.entity;
30 import java.util.List;□
15●
16
       @GeneratedValue(strategy = GenerationType.IDENTITY)
       private int groupID;
19
       private String groupName;
20
210
       @OneToMany(fetch = FetchType.LAZY,
               cascade = CascadeType.ALL)
24
       private List<StudentEntity> members;
26●
       public GroupEntity() {
           super();
28
30●
       public GroupEntity(int groupID, String groupName) {
           super();
           this.groupID = groupID;
           this.groupName = groupName;
36●
       public int getGroupID() {
           return groupID;
38
40●
       public String getGroupName() {
41
           return groupName;
42
440
       public void setGroupName(String groupName) {
           this.groupName = groupName;
       }
46
47 }
```

Repository

```
package com.g2appdev.jabi.repository;

import org.springframework.data.jpa.repository.JpaRepository;

Repository
public interface StudentRepository extends JpaRepository<StudentEntity, Integer //

//this is user-defined method to search a student record by last name
public StudentEntity findByLastName(String lastName);

//other searching methods
public StudentEntity findByFirstName(String firstName);

public StudentEntity findByEmail(String email);
public StudentEntity findByGender(char gender);
public StudentEntity findByAge(int age);
public StudentEntity findByYearLevel(int yearLevel);
</pre>
```

Service

```
@SuppressWarnings("finally")
80
      public StudentEntity putStudentDetails(int id, StudentEntity newStudentDetails) {
          StudentEntity student = new StudentEntity();
              student = srepo.findById(id).get();
              student.setFirstName(newStudentDetails.getFirstName());
              student.setLastName(newStudentDetails.getLastName());
              student.setEmail(newStudentDetails.getEmail());
              student.setGender(newStudentDetails.getGender());
              student.setAge(newStudentDetails.getAge());
              student.setYearLevel(newStudentDetails.getYearLevel());
          catch(NoSuchElementException nex){
              throw new NameNotFoundException ("Student " + id + " not found");
          }
              return srepo.save(student);
'3e
      public String deleteStudent(int id) {
          String msg = "";
          if(srepo.findById(id) != null) {
              srepo.deleteById(id);
              msg = "Student Record successfully deleted!";
              msg = "Student with id " + id + " NOT FOUND";
          return msg;
```

Controller

```
package com.g2appdev.jabi.controller;

piper java.util.List;

per secontroller

RequestMapping(method = RequestMethod.GET,path="/api/student")

public class StudentController {
RequestMapping(method = RequestMethod.GET,path="/api/student")

public class StudentController {
RequestMapping(method = RequestMethod.GET,path="/api/student")

public class StudentController {
RequestMapping("/print")

public studentEntity)

public string print() {
    return "Hello, Firstname Lastname";
}

//Create of CRUD

Read of CRUD

public StudentEntity postStudentRecord(@RequestBody StudentEntity student) {
    return sserv.postStudentRecord(student);
}

//Read of CRUD

Read of C
```