**JAVA SPRING BE**

1. Spring
   1. Hello world

package com.example.learn\_sping.controller;  
  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@RestController //Khai báo đây là controller  
public class HelloWorldController {  
 @GetMapping("/") //Khai báo endpoint  
 public String helloWorld() {  
 return "Hello World";  
 }  
}

* 1. Kết nối db và tạo api crud
     1. Thêm dependency

<dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-data-jpa</artifactId>  
</dependency>  
<dependency>  
 <groupId>mysql</groupId>  
 <artifactId>mysql-connector-java</artifactId>  
 <version>8.0.33</version>  
</dependency>

* + 1. Thêm thông tin kết nối

spring.datasource.url=jdbc:mysql://localhost:3306/database\_name?useSSL=false&serverTimezone=UTC  
spring.datasource.username=root  
spring.datasource.password=  
spring.jpa.hibernate.ddl-auto=update  
spring.jpa.show-sql=true  
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5InnoDBDialect

* + 1. Tạo model table

@Entity //Cho spring biết đây là 1 table
@Table(name = "User") //Name of table
@Getter
@Setter
public class User {
    @Id //Anotation define for id
    @GeneratedValue(strategy = GenerationType.IDENTITY) //Increase id, if we use UUID,it will create random id
    private Long id;

    @Column(nullable = false, unique = true)
    private String username;

    @Column(nullable = false)
    private String email;

    @Column(nullable = false)
    private String password;

    @ManyToMany(mappedBy = "participants")
    private Set<Conversation> conversations = new HashSet<>();

}
