THE STATE UNIVERSITY OF ZANZIBAR

SCHOOL OF COMPUTING, COMMUNICATION AND MEDIA STUDIES

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

COURSE TITLE : **ADVANCE WEBSITE PROGRAMMING**

REG NO : **BITA/5/21/021/TZ**

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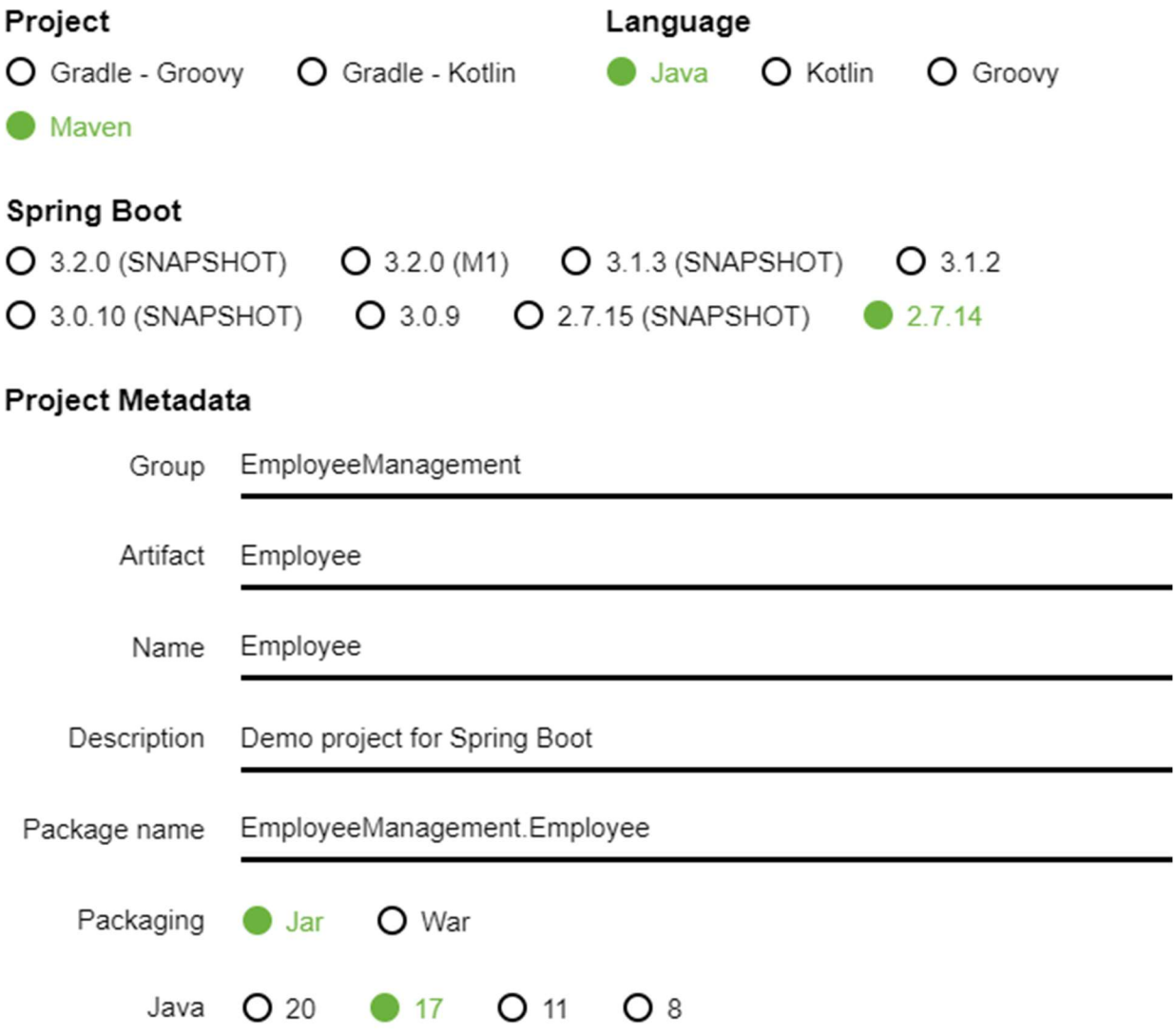
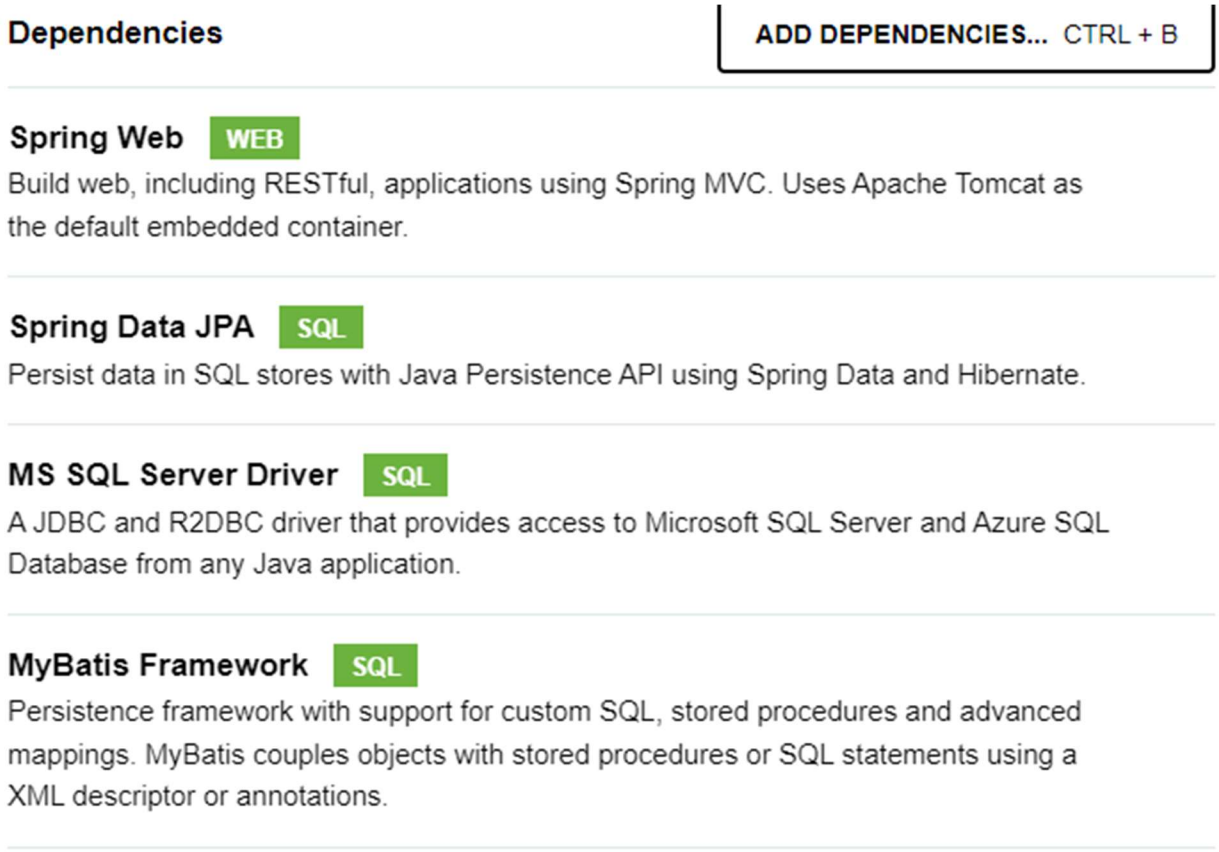
ACADEMIC YEAR : **2022-2023**

TASK : **INDIVIDUAL ASSIGNMENT**

a) The step of creating a project using spring initializer



b) Maven Dependence



c) Application. Properties

```
d)
e)  spring.datasource.url=jdbc:mysql://localhost:3306/Employee
f)  spring.datasource.username=root
g)  spring.datasource.password=
h)
i)  spring.jpa.show-sql=true
j)  spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
k)  spring.jpa.hibernate.ddl-auto=update
l)  server.port=8090
m)
```

d) Models

Employee.java

```
package com.example.Employee.model;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;
```

```java
@Entity
@Table
public class employee {
   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int Id;
    private String FirstName;
    private String LastName;
    private String Email;


    public employee(){

    }


   public employee(int id, String firstName, String lastName, String email) {
      Id = id;
      FirstName = firstName;
      LastName = lastName;
      Email = email;
   }


   public String getFirstName() {
      return FirstName;
   }


   public void setFirstName(String firstName) {
      FirstName = firstName;
   }


   public String getLastName() {
      return LastName;
   }


   public void setLastName(String lastName) {
      LastName = lastName;
   }


   public String getEmail() {
```

```
        return Email;
    }


    public void setEmail(String email) {
        Email = email;
    }


    public static boolean isPresent() {
        return false;
    }


    public int getId() {
        return 0;
    }









}
```

f) Repository

Employee_repo.java

```
package com.example.Employee.repository;

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

import com.example.Employee.model.employee;

public interface Employee_repo extends JpaRepository<employee,Integer> {

}
```

g) Controller

Employee_Controller.java

```java
package com.example.Employee.Controller;

import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.example.Employee.model.employee;
import com.example.Employee.repository.Employee_repo;


@RestController
@RequestMapping("/Employee")
@CrossOrigin
public class Employee_controller {
    @Autowired
    Employee_repo E_repo;

    @PostMapping("")
   public ResponseEntity<employee> newLicense(@RequestBody employee lc){
       employee newLicense_Application = E_repo.save(new employee(lc.getId(),lc.getFirstName
(),lc.getLastName(),lc.getEmail()));

       return new ResponseEntity<>(newLicense_Application, HttpStatus.CREATED);
   }

   @GetMapping("")
   public ResponseEntity<List<Employee>> getAll(){
       List<employee> employee = E_repo.findAll();

       return new ResponseEntity<List<Employee>>(HttpStatus.OK);
   }

    @GetMapping("/{id}")
   public ResponseEntity<employee> getById(@PathVariable("id")int id){
       java.util.Optional<employee> employee = E_repo.findById(id);
```

```
        if(employee.isPresent()){
            return new ResponseEntity<>(employee.get(), HttpStatus.OK);
        }

        return null;
    }

     @DeleteMapping("/{id}")
    public void deleteLicense(@PathVariable Integer id){
        E_repo.deleteById(id);
    }

    @PutMapping("")
    public employee updateLicense(@RequestBody employee newemployee){
        return E_repo.save(newemployee);
    }



}
```