THE STATE UNIVERSITY OF ZANZIBAR

DEPARTMENT OF COMPUTER SCIENCE

AND

INFORMATION TECHNOLOGY

TITTLE:	**INTERNSHIP MANAGEMENT SYSTEM**
COURSE LECTURER:	**MR MASOUD HAMAD**
ACADEMIC YEAR:	**2022/2023**
TASK:	**INDIVIDUAL ASSIGNMENT**
REGISTRATION NUMBER:	**BITA/5/21/052/TZ**

THE STATE UNIVERSITY OF ZANZIBAR

DEPARTMENT OF COMPUTER SCIENCE

AND

INFORMATION TECHNOLOGY

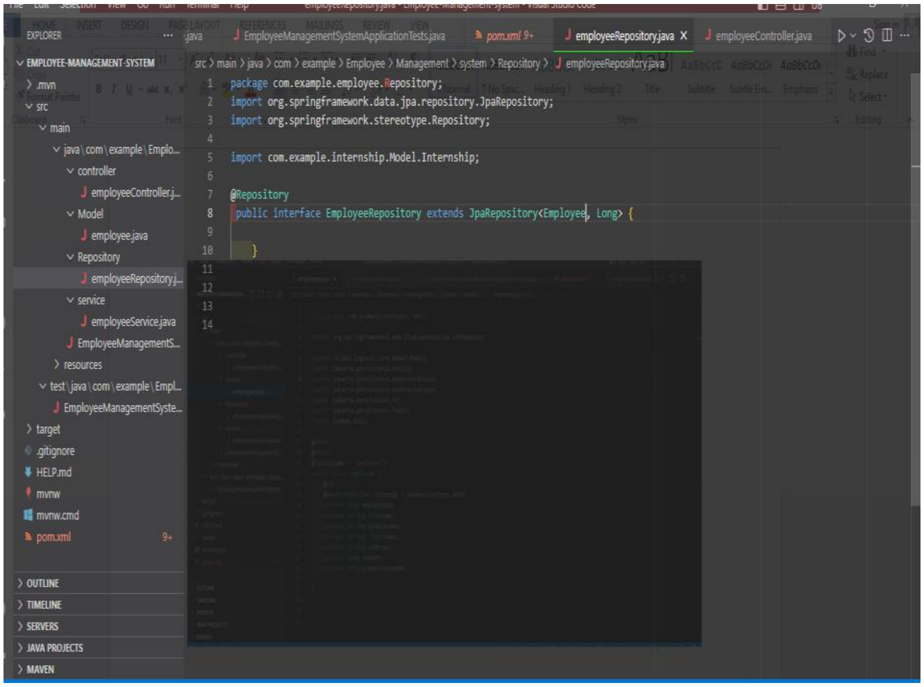
TITTLE: EMPLOYEE MANAGEMENT SYSTEM

COURSE LECTURER: MR MASOUD HAMAD

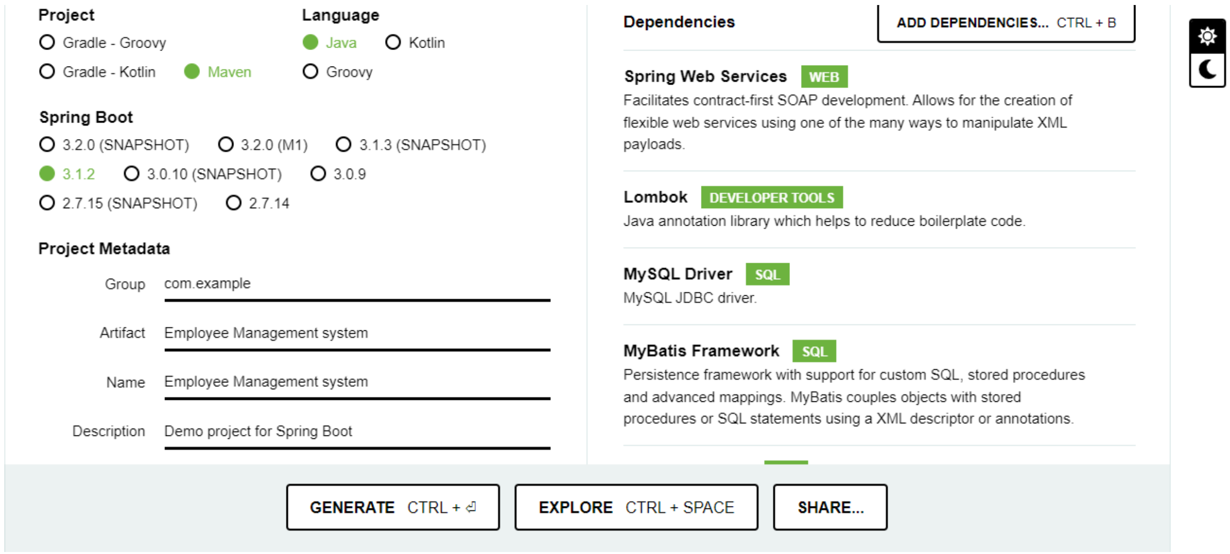
ACADEMIC YEAR: 2022/2023

TASK: MARKUP TEST

REGISTRATION NUMBER: BITA/5/21/052/TZ



```java
package com.example.employee.Repository;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.example.internship.Model.Internship;

@Repository
public interface EmployeeRepository extends JpaRepository<Employee, Long> {

    }
```



Project

○ Gradle - Groovy

○ Gradle - Kotlin ● Maven

Language

● Java ○ Kotlin

○ Groovy

Spring Boot

○ 3.2.0 (SNAPSHOT) ○ 3.2.0 (M1) ○ 3.1.3 (SNAPSHOT)

● 3.1.2 ○ 3.0.10 (SNAPSHOT) ○ 3.0.9

○ 2.7.15 (SNAPSHOT) ○ 2.7.14

Project Metadata

Group	com.example
Artifact	Employee Management system
Name	Employee Management system
Description	Demo project for Spring Boot

Dependencies ADD DEPENDENCIES... CTRL + B

Spring Web Services WEB

Facilitates contract-first SOAP development. Allows for the creation of flexible web services using one of the many ways to manipulate XML payloads.

Lombok DEVELOPER TOOLS

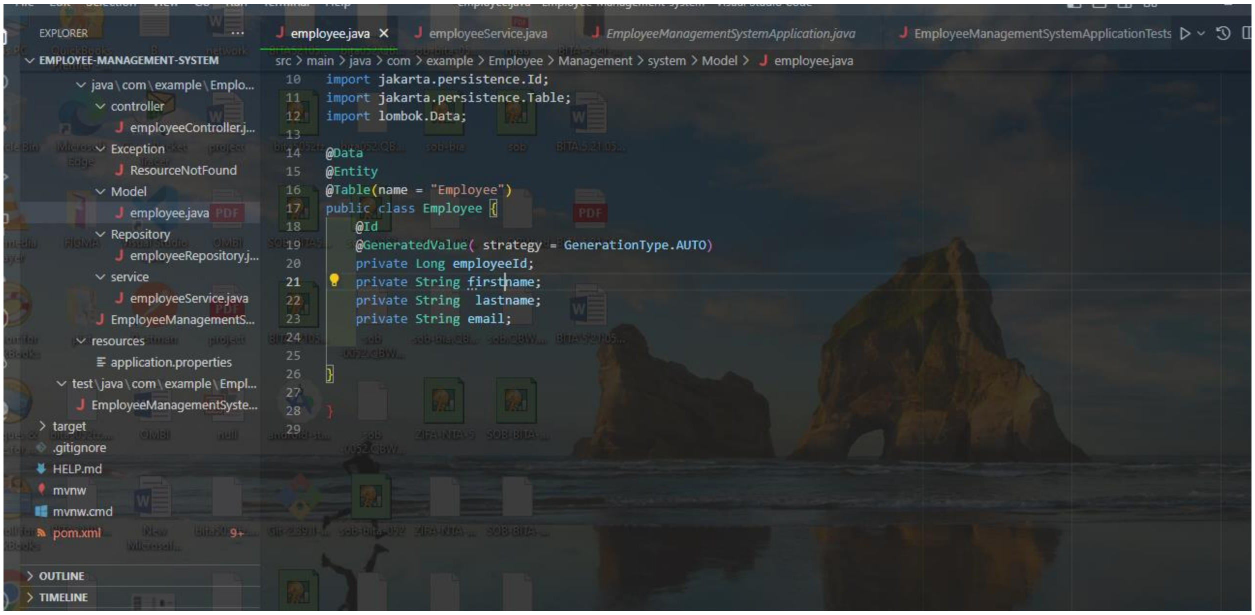
Java annotation library which helps to reduce boilerplate code.

MySQL Driver SQL

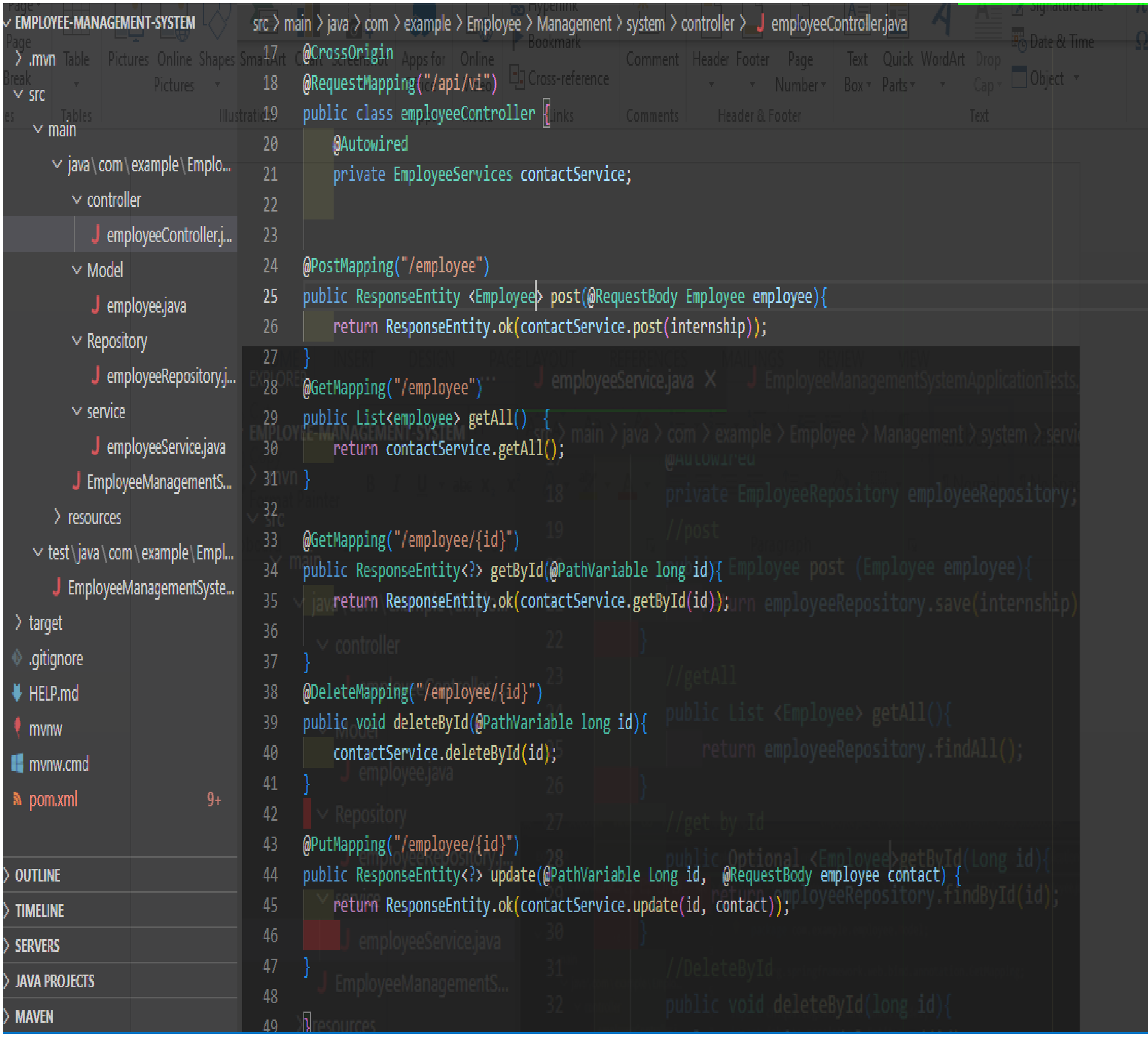
MySQL JDBC driver.

MyBatis Framework SQL

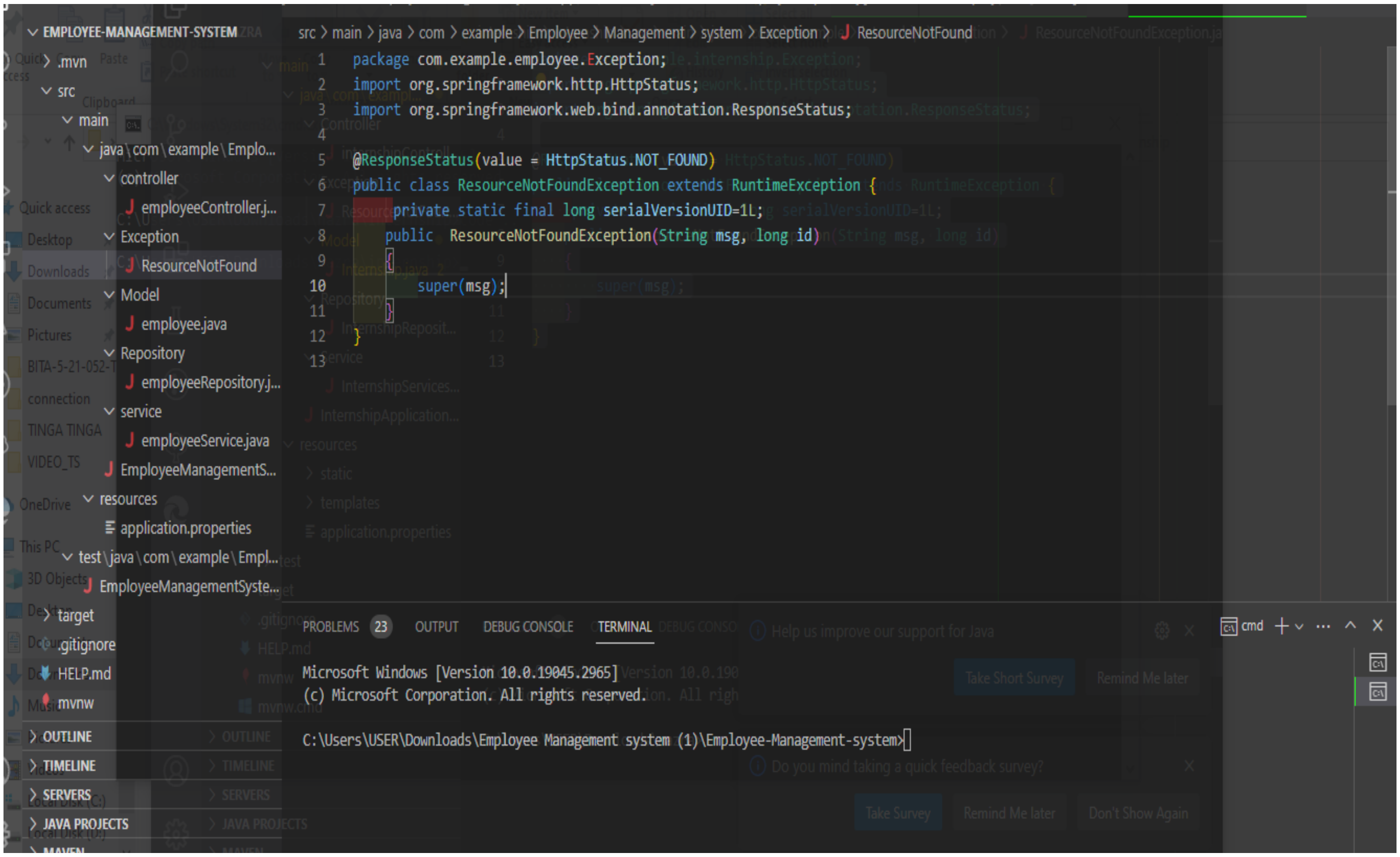
Persistence framework with support for custom SQL, stored procedures and advanced mappings. MyBatis couples objects with stored procedures or SQL statements using a XML descriptor or annotations.


EXPLORER
EMPLOYEE-MANAGEMENT-SYSTEM
java \ com \ example \ Emplo...
controller
employeeController.j...
Exception
ResourceNotFound
Model
employee.java
Repository
employeeRepository.j...
service
employeeService.java
EmployeeManagementS...
resources
application.properties
test \ java \ com \ example \ Empl...
EmployeeManagementSyste...
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
OUTLINE
TIMELINE
employee.java
employeeService.java
EmployeeManagementSystemApplication.java
EmployeeManagementSystemApplicationTests
src > main > java > com > example > Employee > Management > system > Model > employee.java

```java
import jakarta.persistence.Id;
import jakarta.persistence.Table;
import lombok.Data;

@Data
@Entity
@Table(name = "Employee")
public class Employee {
    @Id
    @GeneratedValue( strategy = GenerationType.AUTO)
    private Long employeeId;
    private String firstname;
    private String  lastname;
    private String email;


}


}
```

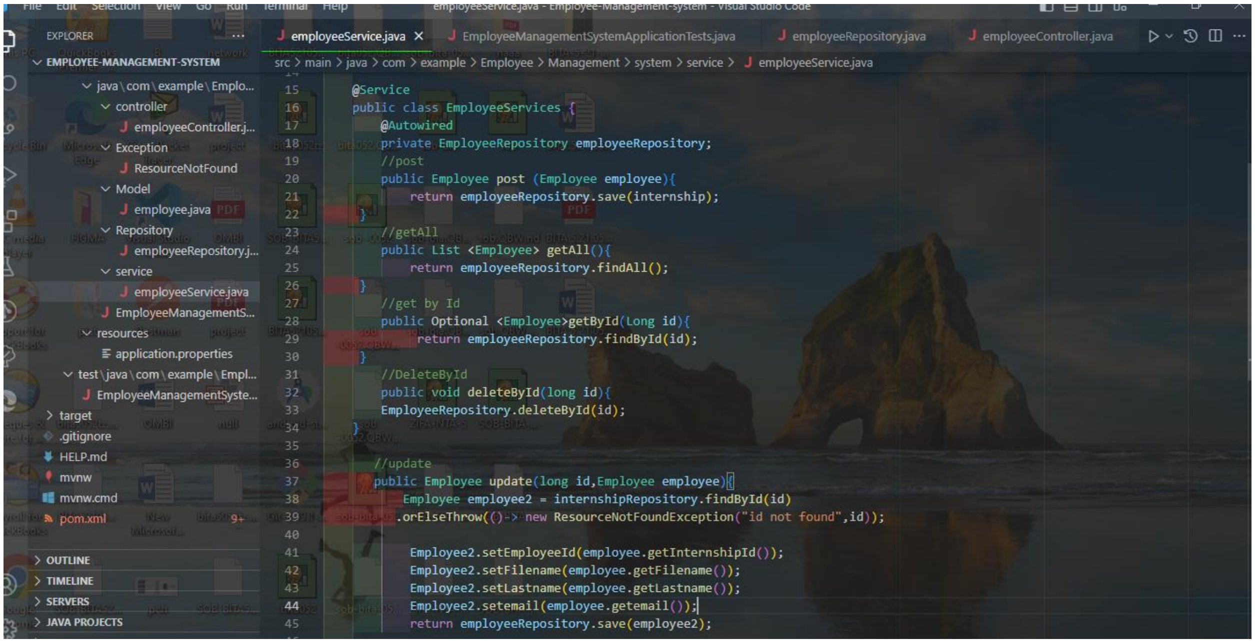


```java
@CrossOrigin
@RequestMapping("/api/vi")
public class employeeController {
    @Autowired
    private EmployeeServices contactService;


@PostMapping("/employee")
public ResponseEntity <Employee> post(@RequestBody Employee employee){
    return ResponseEntity.ok(contactService.post(internship));
}
@GetMapping("/employee")
public List<employee> getAll()  {
    return contactService.getAll();
}

@GetMapping("/employee/{id}")
public ResponseEntity<?> getById(@PathVariable long id){
    return ResponseEntity.ok(contactService.getById(id));

}
@DeleteMapping("/employee/{id}")
public void deleteById(@PathVariable long id){
    contactService.deleteById(id);
}

@PutMapping("/employee/{id}")
public ResponseEntity<?> update(@PathVariable Long id,  @RequestBody employee contact) {
    return ResponseEntity.ok(contactService.update(id, contact));

}

}
```

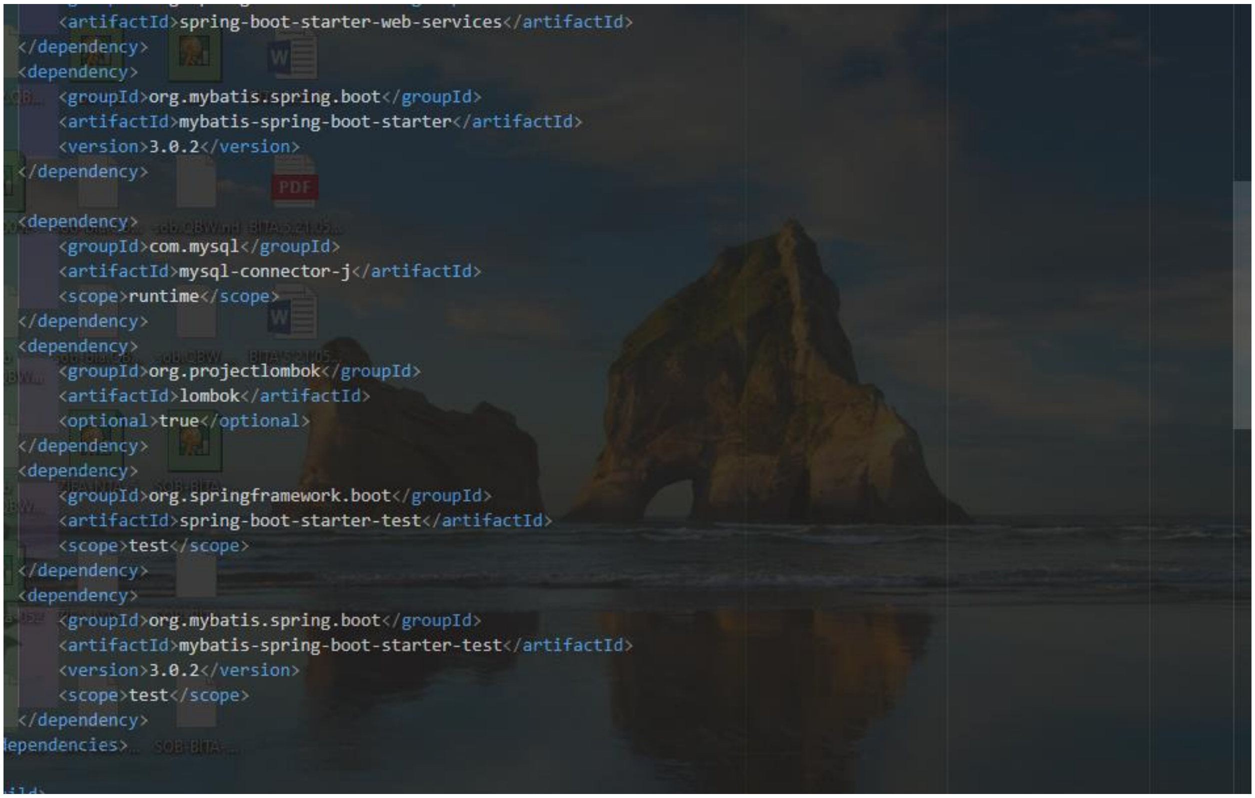


```java
package com.example.employee.Exception;
import org.springframework.http.HttpStatus;
import org.springframework.web.bind.annotation.ResponseStatus;

@ResponseStatus(value = HttpStatus.NOT_FOUND)
public class ResourceNotFoundException extends RuntimeException {
    private static final long serialVersionUID=1L;
   public  ResourceNotFoundException(String msg, long id)
   {
        super(msg);
   }
}
```

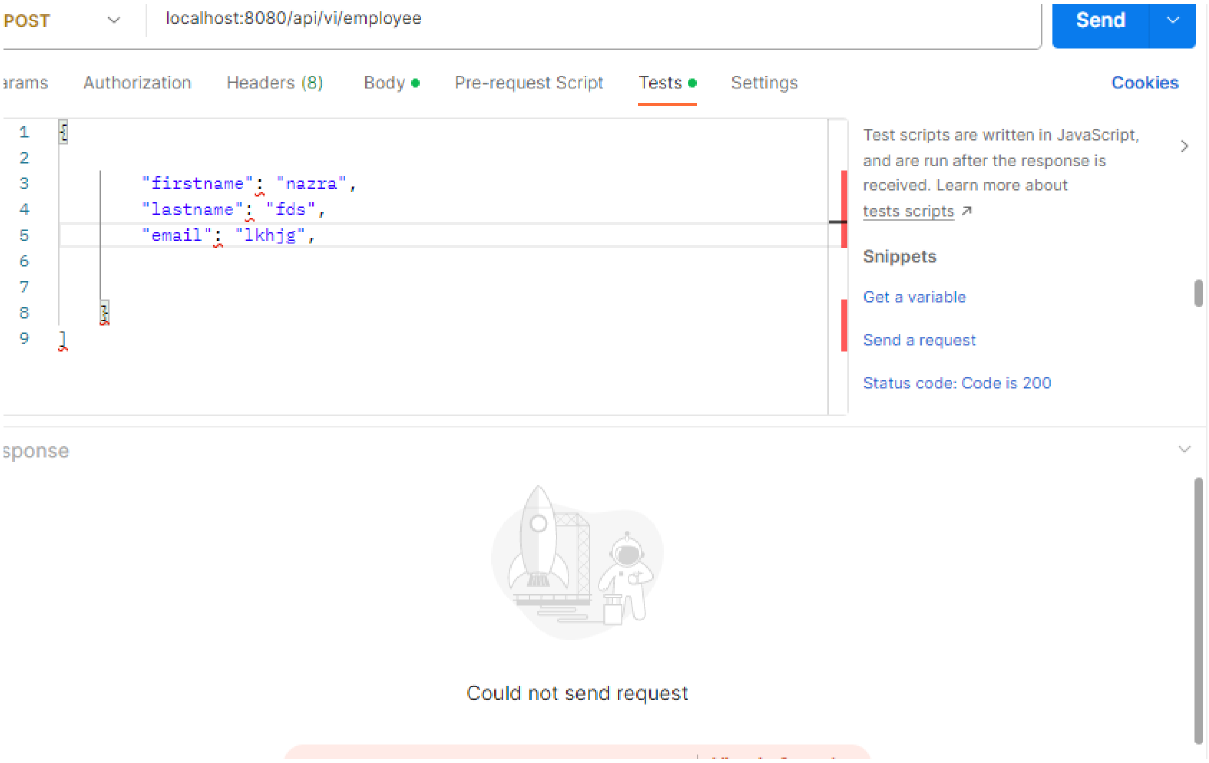
```
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\USER\Downloads\Employee Management system (1)\Employee-Management-system>
```



```java
@Service
public class EmployeeServices {
    @Autowired
    private EmployeeRepository employeeRepository;
    //post
    public Employee post (Employee employee){
        return employeeRepository.save(internship);
}
    //getAll
    public List <Employee> getAll(){
        return employeeRepository.findAll();
}
    //get by Id
    public Optional <Employee>getById(Long id){
         return employeeRepository.findById(id);
}
    //DeleteById
    public void deleteById(long id){
    EmployeeRepository.deleteById(id);
}

   //update
   public Employee update(long id,Employee employee){
       Employee employee2 = internshipRepository.findById(id)
  .orElseThrow(()-> new ResourceNotFoundException("id not found",id));

        Employee2.setEmployeeId(employee.getInternshipId());
        Employee2.setFilename(employee.getFilename());
        Employee2.setLastname(employee.getLastname());
        Employee2.setemail(employee.getemail());
        return employeeRepository.save(employee2);
```



```
        <artifactId>spring-boot-starter-web-services</artifactId>
    </dependency>
    <dependency>
        <groupId>org.mybatis.spring.boot</groupId>
        <artifactId>mybatis-spring-boot-starter</artifactId>
        <version>3.0.2</version>
    </dependency>

    <dependency>
        <groupId>com.mysql</groupId>
        <artifactId>mysql-connector-j</artifactId>
        <scope>runtime</scope>
    </dependency>
    <dependency>
        <groupId>org.projectlombok</groupId>
        <artifactId>lombok</artifactId>
        <optional>true</optional>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.mybatis.spring.boot</groupId>
        <artifactId>mybatis-spring-boot-starter-test</artifactId>
        <version>3.0.2</version>
        <scope>test</scope>
    </dependency>
dependencies>

ild>
```



```
{

        "firstname": "nazra",
        "lastname": "fds",
        "email": "lkhjg",


    }
]
```

Test scripts are written in JavaScript, and are run after the response is received. Learn more about tests scripts ↗

Could not send request