

# MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY

SANTOSH, TANGAIL-1902



DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

## Lab Report

### Lab Report No: 08

**Lab Report on:** CRUD Operations in Spring Boot using MySQL

**Course Title:** Software Engineering and Project Management Lab

**Course Code:** ICT-3108

Submitted By	Submitted To
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Date of Performance:

Date of Submission:

### Lab Report 8:

A ~~creat~~ CRUD Application is used to manage data in a database. In this lab, we manage student records such as ID, name, email, and course using Spring Boot and MySQL.

Spring Boot Simplifies backend development by providing :

1. Embedded server
2. Easy database connectivity
3. JPA repository support for CRUD operations

### Code:

```
import org.springframework.boot.*;  
import org.springframework.boot.autoconfigure.*;  
import org.springframework.web.bind.annotation.*;  
import org.springframework.data.jpa.repository.*;  
import jakarta.persistence.*;  
import java.util.*;  
@SpringBootApplication
```

```
@ RentController  
public class App {  
    public static void main(String[] args) {  
        SpringApplication.run(APP.class, args);  
    }  
}  
@ - Entity  
class Student {  
    @ Id @GeneratedValue Long id;  
    String name;  
}  
interface Repo extends JpaRepository<Student,  
    Long> {  
    Repo n; APP(Repo n) & this.n = n;  
    @ PostMapping(" /c") Student c (@RequestBody  
        Student s); return n.save(s);  
    @ PutMapping(" /u/{id}") Long student > u(@PathVariable  
        long i, @RequestBody Student s) Student  
        x = n.findById(i).get(); x.name =  
        s.name; return n.save(x);  
}
```

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