

MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY

SANTOSH, TANGAIL-1902



DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

Lab Report

Lab Report No: 09

Lab Report on: Developing RESTful Services Using Spring Boot

Course Title: Software Engineering and Project Management Lab

Course Code: ICT-3108

Submitted By	Submitted To
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This lab demonstrates Restful Service development using Spring Boot. Auto-configuration starter dependencies and an embedded server reduce setup complexity. Annotations like @RestController, @RequestMapping and @PostMapping simplify request handling while Jackson enables automatic JSON conversion, resulting in readable, maintainable and efficient Rest REST API's.

1. Main Application (Minimal)

```
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.  
    SpringBootApplication
```

```
public class Lab8App {  
    public static main (String[] args) {  
        SpringApplication.run (Lab8App.class,  
                                args);  
    }  
}
```

9/

2. Model class (short form)

```
public class User {  
    public int id;  
    public String name;  
}
```

3. REST Controller (Simplified)

```
import org.springframework.web.bind.annotation.*;  
  
public class UserController {  
    public User getUser() {  
        return new User(1, "Akib");  
    }  
}
```

```
public User addUser (User u) {  
    return u;  
}
```