

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, starters, dependency and an embedded server reduce setup complexity. Annotations like @RestController, @GetMapping and @PostMapping simplify request handling while Jackson enables automatic JSON conversion, resulting in readable, maintainable and efficient REST API's.

1. Main Application (Minimal)

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

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

2. Model Class (short form)

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

3. REST Controller (Simpler)

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

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

```
}
```