Spring Boot CRUD REST full API Using Project Structure

Spring Boot REST Full API layers Controller, Service and DAO

Controller Layer:

Example Controller:

```
@RestController

public class MyController {

    @Autowired

    private MyService myService;

    @GetMapping("api/{id}")

    public ResponseEntity<String>
showSingleStudentRecord(@PathVariable int id) {

        String result = myService.showSingleStudentRecord(id);

        return new ResponseEntity<>(result, HttpStatus.OK);

    }

}
```

Service Layer:

Example Service:

```java
@Service
public class MyService {

    @Autowired
    private MyDAO myDAO;

    public String showSingleStudentRecord(int id) {
        return myDAO.showSingleStudentRecord(id);
    }
}
```

DAO (Data Access Object) Layer:

Example DAO:

```java
@Repository
public class MyDAO {

    @Autowired
    SessionFactory sf;

    public String showSingleStudentRecord(int id) {
        // Database interaction code
        Session s=sf.openSession();
        Student ss=s.get(Student.class, id);
        return "Show Single Student Record \n"+ss;
    }
}
```

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