



SAL INSTITUTE OF TECHNOLOGY AND ENGINEERING RESEARCH

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Student's Weekly Report of Internship

Student Name:	Anshul Patel		
Enrollment Number:	210670107047		
Week Duration:	5 Days		
Name Of Organization:	OPL Innovate		
External Guide Name:	Deepak Vishwakarma		
External Guide Contact details:	Email:	Deepak.vishwakarma@oplinnovate.com	Mob No: 9827375391
Internal Faculty Guide Name:	Dr. Krishna Hingrajiya		

Work done in last Week with description (Attach supporting Documents Like Diagram, Screen Shot of each Work):

1. Service Layer Design
2. Data Transfer & Validation
3. CRUD Operations

Plans for next week:

1. Develop API controllers to expose service functionalities for frontend interactions.
2. Optimize business logic to improve execution efficiency.
3. Introduce structured error-handling mechanisms.

Total Working Hrs: 40

Signature of Student:

The above entries are correct, and the grading of work done by Trainee is

Excellent	Very Good	Good	Fair	Below Average	Poor

Signature of External Guide with Company Seal:

Signature of Internal Guide:

Date:

Date:

Service Layer Implementation

Work Completed:

Service Layer Design:

Developed modular services to handle business logic separately from controllers.

Ensured the service layer acts as an intermediary between controllers and repositories.

CRUD Operations:

Implemented create, read, update, and delete functionality for all major entities.

Designed services to handle edge cases and prevent invalid operation

Data Transfer & Validation:

Created DTOs to manage input/output consistency and reduce security risks.

Implemented request validation to prevent incorrect data submission.

Transaction Management:

Enabled transactional processing for order management and multi-step operations.

Ensured rollback mechanisms to maintain data consistency in case of failures.

Testing & Debugging:

Performed unit tests on all service methods.

Used logs and breakpoints to debug business logic issues.

Future Plans:

Develop API controllers to expose service functionalities for frontend interactions.

Optimize business logic to improve execution efficiency.

Introduce structured error-handling mechanisms.

Example:

UserDto Class

```
package com.example.app.dto;

import jakarta.validation.constraints.NotBlank;
import lombok.Data;

@Data
public class UserDto {
    @NotBlank(message = "Username is required")
    private String username;

    @NotBlank(message = "Password is required")
    private String password;
}
```