



# 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. Performance Optimization
2. Security Enhancements
3. Logging & Monitoring

### Plans for next week:

1. Deploy the system on a cloud platform for scalability.
2. Implement auto-scaling and load balancing for high availability
3. Continuously monitor and refine system performance based on real-world usage.

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:

## **Optimization & Future Improvements**

### Work Completed:

#### **Performance Optimization:**

Refactored database queries to reduce execution times and improve efficiency.

Minimized redundant computations and optimized response handling.

#### **Security Enhancements:**

Strengthened encryption mechanisms for password storage.

Introduced rate limiting and bot prevention techniques.

#### **Logging & Monitoring:**

Set up centralized logging to track API and system behavior.

Integrated monitoring tools to analyze real-time application performance.

#### **Deployment Preparation:**

Planned for cloud-based deployment with containerization.

Configured CI/CD pipelines for automated builds and deployments.

### Future Plans:

Deploy the system on a cloud platform for scalability.

Implement auto-scaling and load balancing for high availability.

Continuously monitor and refine system performance based on real-world usage.

