

MERN Stack Training

Company: Sensation Software Solutions

Student Name: Gurvinder Singh

Training Duration: 6 Months

Days: 54

Objective of the Day

The objective of Day 54 was to understand **performance optimization** and best practices for scalable MERN applications.

Work Done on Day 54

The trainer explained common performance issues faced by web applications and how they affect user experience.

Performance Optimization Concepts

Topics covered:

- Optimizing database queries
- Reducing API response time
- Code optimization techniques
- Efficient state management

The importance of clean and modular code was discussed.

Scalability and Maintenance

We learned:

- Writing maintainable code
 - Separating concerns
 - Preparing applications for future growth
-

Conclusion

Day 54 focused on building **efficient, scalable, and maintainable applications**, which is essential for real-world projects.