

MERN Stack Training

Company: Sensation Software Solutions

Student Name: Tajinder Kaur

Training Duration: 6 Months

Days: 46

Day 46 – MERN Stack Industrial Training Diary

Company Name: Sensation Software Solutions

Student Name: Gurvinder Singh

Training Duration: 6 Months

Day: 46

Objective of the Day

The objective of Day 46 was to understand **authentication concepts**, user management, and why security is important in web applications.

Work Done on Day 46

The training session started with an explanation of **authentication vs authorization**. The trainer clarified that authentication verifies the identity of a user, while authorization controls access to resources.

Real-world examples such as login systems and access-controlled dashboards were discussed to explain the importance of authentication.

User Authentication Concepts

The following topics were explained:

- User registration process
- Login flow
- Session-based vs token-based authentication

The trainer explained common security issues faced by applications without authentication.

Password Security

We learned why passwords should **never be stored in plain text**. Concepts discussed included:

- Password hashing
 - Importance of encryption
 - Using hashing libraries for security
-

Hands-on Practice

Practical understanding included:

- Designing user authentication flow
 - Understanding secure login logic
 - Learning common authentication errors
-

Conclusion

Day 46 laid the foundation for **secure backend development** by introducing authentication and user security concepts.
