

## **MERN Stack Training**

**Company:** Sensation Software Solutions

**Student Name:** Tajinder Kaur

**Training Duration:** 6 Months

**Days:** 46

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# **Day 46 – MERN Stack Industrial Training Diary**

**Company Name:** Sensation Software Solutions

**Student Name:** Gurvinder Singh

**Training Duration:** 6 Months

**Day:** 46

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## **Objective of the Day**

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

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## **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.

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## **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.

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## 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

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## Hands-on Practice

Practical understanding included:

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

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## Conclusion

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

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