

## **MERN Stack Training**

**Company:** Sensation Software Solutions

**Student Name:** Gurvinder Singh

**Training Duration:** 6 Months

**Days:** 47

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## **Objective of the Day**

The objective of Day 47 was to learn **JWT (JSON Web Token)** and implement **token-based authentication**.

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## **Work Done on Day 47**

The trainer introduced **JWT** and explained how tokens are used to maintain user sessions without storing data on the server.

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## **JWT Structure**

JWT was explained as consisting of:

- Header
- Payload
- Signature

The concept of token generation and verification was discussed step by step.

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## **Token-Based Authentication Flow**

The authentication flow included:

1. User logs in
  2. Server verifies credentials
  3. Token is generated
  4. Token is sent to client
  5. Token is used for future requests
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## **Hands-on Practice**

We practiced:

- Generating JWT tokens
- Sending tokens in headers
- Verifying tokens on protected routes

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## Conclusion

Day 47 helped in understanding **stateless authentication**, which is widely used in modern web applications.