

MERN Stack Training

Company: Sensation Software Solutions
Student Name: Tajinder Kaur
Training Duration: 6 Months
Days: 45

Objective of the Day

The objective of Day 45 was to understand **data validation, schema design, and backend best practices** using MongoDB and Mongoose.

Work Done on Day 45

The trainer explained the importance of **clean database design** and how poor schema design can affect application performance.

Schema Design and Validation

Topics covered:

- Required fields
- Data types
- Default values
- Validation rules

These practices help ensure data consistency and reliability.

Backend Best Practices

The following best practices were discussed:

- Proper folder structure
 - Error handling
 - Secure database connection
 - Writing maintainable code
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Hands-on Practice

We practiced:

- Applying validations
 - Testing incorrect data inputs
 - Improving backend code structure
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Conclusion

Day 45 concluded the **database integration phase** and prepared us for **advanced MERN development and real-world backend projects**.