**MERN Stack Training**
**Company:** Sensation Software Solutions
**Student Name:** Tajinder Kaur
**Training Duration:** 6 Months
**Days:** 51

# Objective of the Day

The objective of Day 51 was to understand **application deployment concepts** and learn how MERN stack applications are prepared for production environments.

# Work Done on Day 51

The trainer explained the difference between **development environment** and **production environment**. Real-world deployment challenges such as performance, security, and scalability were discussed.

# Deployment Basics

Topics covered:

- What is deployment
- Why production build is required
- Differences between local server and live server
- Importance of environment variables

The trainer explained how frontend and backend are deployed separately or together based on application architecture.

# Build Process

We learned:

- Creating optimized frontend builds
- Removing development dependencies
- Handling configuration files

The importance of minimizing bundle size and improving load time was emphasized.

# Conclusion

Day 51 provided an understanding of how applications move from development to production and what preparations are required before deployment.