

Industrial Training Daily Diary

MERN Stack Training

Company: Sensation Software Solutions

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Training Duration: 6 Months

Day: 26

Day 26 – React Routing & Form Integration with Redux and API

Objective of the Day

The objective of Day 26 was to learn **integrating React forms with Redux** for state management and connecting them with backend APIs while maintaining proper routing using React Router.

Recap of React Router and Redux

Trainer started with a brief recap:

- React Router basics: BrowserRouter, Route, Link, NavLink
- Redux basics: Store, Actions, Reducers
- useSelector and useDispatch hooks

This was important to prepare for integrating forms and API calls.

Form Integration with Redux

Key steps covered:

- Connecting form input state to Redux store
- Dispatching actions on input change and form submission
- Storing user input globally for use across components

Example: Registration form fields (name, email, password) managed via Redux.

API Integration

Trainer demonstrated connecting React forms to backend API:

- Using `axios` or `fetch` to send POST requests
- Handling success and error responses
- Updating Redux state based on API response

This helps in real-time data management and maintaining global state consistency.

Practical Work Done

During lab session:

- Created a registration form with Redux integration
- Added routing to navigate between Home, Registration, and Success pages
- Connected form submission to mock API
- Used Redux to store form data and response messages
- Observed UI updates and validation messages

Hands-on practice helped understand end-to-end flow of forms in a MERN application.

Weekly Task – Week 7

Tasks assigned:

- Integrate all forms with Redux state
 - Connect forms to API endpoints
 - Implement navigation flow for multi-step forms
 - Update diary and push code to GitHub Pages
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Importance in MERN Stack Development

Integrating React forms with Redux and APIs ensures scalable and maintainable applications. Proper routing ensures smooth navigation and consistent user experience.

Conclusion of Day 26

Day 26 provided practical experience in connecting React forms with Redux and backend APIs while maintaining proper routing. I can now manage form data globally and ensure smooth navigation.

Outcome of the Day:

- Form state managed via Redux
- Form submission connected to API
- React Router navigation implemented
- Week 7 task assigned and started