

Assessment

Module-13:React – Applying Redux

Case Overview

Scenario:

You are tasked with building a scalable React + Redux application to manage Hotel Booking Feedback after a visit. The system must integrate with a REST API using Redux Toolkit, allow form submissions, manage records with search and filter features, and support create, update, and delete operations.

Core Functionality

Feature	Description
Responsive Web Form	<ul style="list-style-type: none">Fields: Full Name, Phone No, Hotel Feedback Comment, Hotel Ratting.Controlled inputs using useState.Validation rules: Name>=3 chars, Phone=10 digits, Comment Length valid, Ratting validation. Inline Error messages for invalid fields.
Feedback Submission (API)	<ul style="list-style-type: none">Use createSlice for crud. On valid submission, send POST request to API. Update Redux store and UI instantly.
View Feedback	<ul style="list-style-type: none">Fetch data from api and display in a table with columns: Name, Phone, Comment, Ratting. Include search filters by Name. Show “No records found” if empty.
Delete Feedback	<ul style="list-style-type: none">Add the Delete button for each record. On click, confirm action, send DELETE request to api, remove from UI immediately.

Key Competencies Tested

- React Form Handling & Controlled Components
- JavaScript Input Validation
- Redux Toolkit (createSlice, createAsyncThunk, useDispatch, useSelector)

- API Integration (GET, POST, PUT, DELETE)
Search & Filter Logic
- Real-time UI Updates via Redux Store
- Context API for UI state
- RTK Query for advanced API handling

Reflective Thinking Questions

- How would you structure the Redux store for separating book data from UI state (e.g., modals)?
- When should infinite scroll be preferred over pagination in such systems?
- How can RTK Query simplify repeated API calls in this app?
- How would you secure access — e.g., making book deletion available only to admin users?