MERN Stack Training
Company: Sensation Software Solutions
Student Name: Tajinder Kaur
Training Duration: 6 Months
Days: 74

Objective of the Day

To build the capability to **modify existing product details** with an edit form linked to the **PUT /products/:id** endpoint. This was essential for completing the update cycle within CRUD.

Work Detailed Summary

1 Edit Mode Integration

- Added an Edit button on each ProductCard.
- Passed selected product data to EditProductForm component.
- Used controlled inputs to **pre-fill fields** with existing values.

2 API Communication

- Sent updated fields via PUT request.
- Displayed post-update success messages and refreshed product state.

3 UI Behavior

- Smooth transitions applied using Tailwind for:
  - Hover states
  - Button focus rings
  - Input highlight animations

⚡ Data Syncing

- Ensured the updated product reflects instantly without page reload.
- Implemented local state update instead of a full fetch to improve performance.

Challenges & Solutions

Challenge	Fix
Managing state between components	Lifted state to parent component for centralized access
Distinguishing edit mode vs add mode	Conditionally rendered different form components
Preventing accidental submissions	Added confirmation & disabled button during network calls

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Conclusion

Day 74 resulted in a **fully functional update/edit product system**, ensuring real-time edit capability and front-to-back data consistency.