



Advance JavaScript

This section belongs to JavaScript and DOMs section



Day 12 - Advance JavaScript Learning Assignment

You need to build Insurance Mini-Project covering JavaScript basic and advance features. The portal should:

- Fetch insurance policies from an API
- Display policies on UI
- Filter & calculate premiums
- Simulate delayed policy approval
- Handle errors gracefully
- Use modern JavaScript features

Following tasks you need to perform and use topics mentioned in parentheses in tasks.

Functional Requirements:

Task 1: Fetch Insurance Policies (Fetch + Async/Await)

- Fetch policy data from a mock API (simulate API using local data)
- Handle API errors using try/catch

Use Local Data:

```
const policiesData = [
  { id: 1, name: "Health Plus", type: "Health", premium: 12000, duration: 1, status: "Active" },
  { id: 2, name: "Life Secure", type: "Life", premium: 9000, duration: 10, status: "Inactive" },
  { id: 3, name: "Car Protect", type: "Vehicle", premium: 7000, duration: 1, status: "Active" },
  { id: 4, name: "Family Health", type: "Health", premium: 15000, duration: 2, status: "Active" }
];
let policies = [];
```

Task 2: Display Policies (Objects & Arrays)

- Render policies dynamically on UI
- Show: Policy Name, Type, Premium, Duration, Status

Task 3: Filter Policies (filter)

- Filter policies:
 - Health
 - Life
 - Vehicle

Task 4: Calculate Total Premium (reduce)

- Calculate total premium of **Active** policies

Task 5: Premium Discount Logic (map)

- Apply 10% discount to policies above ₹10,000

Task 6: Policy Approval Simulation (Callback + setTimeout)

- Simulate policy approval after 2 seconds
- Use callback pattern



Presented by
Ranjan Bhatnagar
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Task 7: Promise-based Policy Purchase

- Convert callback logic to Promise
- Handle success & failure

Task 8: Error Handling

- Invalid policy ID
- API failure
- Premium calculation error

❖❖❖ Good Luck ❖❖❖

Web Technology by Ranjan B.



Presented by
Ranjan Bhatnagar
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