

DAY 23 - JSX, COMPONENTS, PROP, LIST & CONDITIONAL RENDERING

1. Online Grocery Store Product List

Domain: E-commerce

Requirements:

1. Functional Components

- ProductCard component to display each product.
- ProductList to map through all products.

2. JSX

- Use JSX for structured layout with className for styling.
- Show price in bold, discount in a span with inline style (red).

3. List Rendering

- Products array (name, price, availability, image).
- Use .map() with unique key for rendering cards.

4. Conditional Rendering

- If availability is true → Show “In Stock”
- Else → Show “Out of Stock” with gray styling.
- If discount > 0 → Show “On Sale” badge.

5. Props

- ProductCard receives name, price, discount, availability, image as props.
- Pass data from parent (App.jsx).

Real-life use: Mimics Flipkart/Amazon product listing.

2. Student Attendance Dashboard

Domain: Education

Requirements:

1. Functional Components

- StudentCard component for each student.

- AttendanceList to display all students.

2. JSX

- Display student name, roll number, and attendance percentage.
- Inline conditional styles → green text if attendance > 75, red otherwise.

3. List Rendering

- Students array with (id, name, rollNo, attendance%).
- .map() to render StudentCard.

4. Conditional Rendering

- If attendance < 50 → Show “Warning: Low Attendance”.
- If attendance > 90 → Show ★ “Excellent Student”.

5. Props

- StudentCard receives name, rollNo, attendance as props.
- Use children prop to show custom messages below card.

Real-life use: Similar to digital school attendance portals.

3. Job Board Application

Domain: Recruitment

Requirements:

1. Functional Components

- JobCard to display job details.
- JobList to render all jobs.

2. JSX

- Title in `<h2>`, company name in `<p>`, apply button inside `<button>`.
- Conditional inline style → Remote jobs highlighted with a green border.

3. List Rendering

- Jobs array (id, title, company, location, isRemote, salary).
- .map() to render multiple JobCards.

4. Conditional Rendering

- If `isRemote === true` → Show “Remote Job” badge.

- If salary > 100000 → Show “High Paying Job” tag.
- Else show “Standard Salary”.

5. **Props**

- JobCard accepts title, company, location, salary, isRemote as props.
- Props are destructured in component.

Real-life use: Works like LinkedIn/Indeed job listings.

4. Movie Recommendation System

Domain: Entertainment

Requirements:

1. Functional Components

- MovieCard component for each movie.
- MovieList parent that maps through movies.

2. JSX

- Poster image inside ``, title inside `<h3>`, rating with stars.
- Inline style to highlight rating above 8.0.

3. List Rendering

- Movies array (id, title, genre, rating, isTrending, poster).
- Use `.map()` to generate movie cards.

4. Conditional Rendering

- If `isTrending === true` → Show  Trending badge.
- If `rating >= 8.5` → Show “Top Rated”.
- If no movies exist → Show “No Movies Found”.

5. **Props**

- MovieCard receives title, genre, rating, isTrending, poster.
- children prop to add custom user reviews under the card.

Real-life use: Similar to Netflix/HBO/Prime movie listings.

5. Employee Directory System

Domain: HR Management

Requirements:

1. Functional Components

- EmployeeCard to show each employee.
- EmployeeList to map through employees.

2. JSX

- Use <div> grid layout for directory.
- Employee name in bold, role in italic, department in a .

3. List Rendering

- Employees array (id, name, role, department, isActive).
- .map() with key for each EmployeeCard.

4. Conditional Rendering

- If isActive === true → Show green “Active” label.
- Else show red “Inactive”.
- If department === "HR" → Highlight background color.

5. Props

- EmployeeCard accepts name, role, department, isActive.
- Default prop for role = "Employee" if not passed.

Real-life use: Company staff directory for HR systems.

Why These Projects Are Perfect

- They cover **all JSX rules** (className, expressions, inline styles).
 - Each project uses **functional components** for modular design.
 - **Lists with .map()** are central to all projects.
 - **Conditional rendering** is implemented in multiple real cases (badges, warnings, empty states).
 - **Props** are used for passing data, destructuring, default values, and children props.
 - Each project simulates a **real-world app scenario** (e-commerce, HR, entertainment, education, jobs).
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