Mini E-commerce App (React)

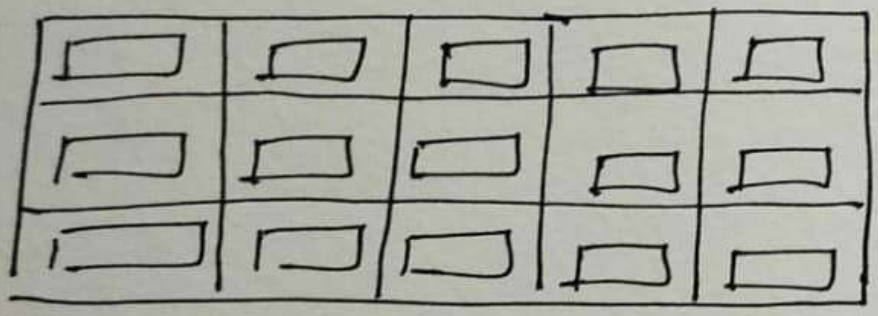
objective - Build an E-commerce using React.

APIs

1. dummyjson.com/products
2. fakestoreapi.com/products

Product Listing :

Product Grid : 15-20 items



- Name
- price
- Category
- Stock (in/out)
- Add to cart.

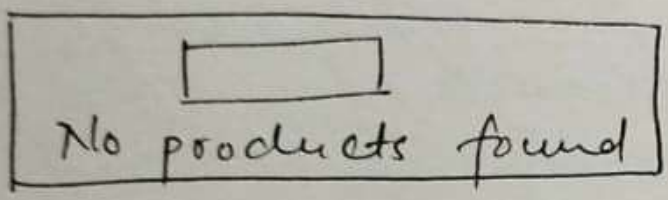
Cart features

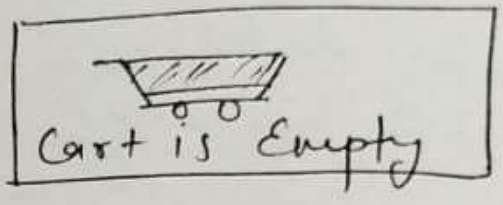
→ Total Items
→ Total price
- Quantity Control.

Item × Qty: 2 [−] ≥1 [+] → Remove

→ Rules

1. Qty ≤ Available Stock
2. Cart updates instantly





→ filter and Search.

Filters :

- Search by Name
- filter by category
- sort by price
  - ↳ low → high
  - ↳ high → low

→ logic flow

Load products → Apply filters → Display filtered list

→ Tech Notes :

- Use functional Components
- No UI libraries.
- Mocked Data only
- Basic CSS/styled.

State management ; constraints Evaluation

- State Management plans

→ product state → fetched once
→ filters state → search, category, sort
→ cart state - separate from product list.

- Technical constraints

→ functional components only
→ No UI libraries (eg. material UI)
→ No backend
→ Basic CSS only
→ Mocked / API data only.

Question 4.

→ Initially (1980) 250 males
250 females.

→ By 2020,

- 10 to less than 20 become 50 to less than 60 in 2020.
- 20 less than 30 become 60 to less than 70. in 2020

→ from 2020 data.

- In 50-60 age, 140 male, 125 female
- In 60-70 age group, 100 male
105 female.

Total = (140+125) + (100+105)

470. ✓

Question 5.

- Age shift.

→ 20-30 in 1980

→ Age in 2000 → 40-50

» 2010 → 50-60

- Male aged 40-50 in 2000 = 205.
- » » 50-60 in 2010 = 165.

Death b/w 2000 and 2010

⇒ 205 - 165 = 40

Question 6

Age shift

- Age 30-40 in 1980
- » in 2010 = 60-70
- from 2010 graph ⇒

Male (60-70) = 90

Female (60-70) = 100

Total = 90 + 100 = 190

Question 7.

→ In 1980, Male = 1000, female = 100

Dead in 2000 = (initial in 1980) − (Alive in 2000)

→ In 2000, from green bars

→ 30-40 = 180
→ 40-50 = 205
→ 50-60 = 160
→ 60-70 = 100

Total male alive in 2000 = 645.

Dead male in 2000 = 355.

→ female alive in 2000 (Purple bars)

→ 30-40 = 240
→ 40-50 = 175
→ 50-60 = 150
→ 60-70 = 120

Total female alive in 2000 = 685

Dead = 315.

Ratio ⇒ 355 : 315.

⇒ (71 : 63)