

## Day 4

# Dynamic Frontend Components - Nike E-Commerce

### 1. Functional Deliverables:

**Product Listing Page:** I created a dynamic product listing page that fetches Nike product data from the API and displays it.

**Product Detail Pages:** I implemented dynamic routing, so each product has its own detailed page with accurate information.

**Filters & Pagination:** I added category filters, a search bar, and pagination to help users navigate products easily.

**Additional Features:** I added sorting filters for price (low to high, high to low).

I made the filter section responsive, hiding it on smaller screens for better user experience.

I integrated wish list, stock alert, and size selection options for each product.

### 2. Code Deliverables:

#### Key Components:

**Product Card:** Displays individual product details like name, price, and image.

**Product List:** Maps through products and shows them in a grid layout.

**Search Bar:** Allows users to search products by name.

**Sorting Component:** Sorts products by price (low to high, high to low).

**API Integration:** I integrated the API to dynamically fetch and display product data. The products are then routed to their respective detail pages using dynamic routing.

### 3. Challenges & Solutions:

Implemented dynamic routing for accurate product details.

Managed sorting and filtering with custom functions.

Ensured responsiveness by hiding the filter on smaller screens.