



SHOPMART

A Shopping App

-DEEPIKA G

Problem Statement

- ✓ Managing dynamic UI components efficiently.
- ✓ Handling client-side routing seamlessly.
- ✓ Ensuring smooth state management with real-time data updates.
- ✓ Implementing reusable and maintainable component-based architecture.
- ✓ Optimizing API handling and asynchronous data flow.
- ✓ Enhancing UI behavior using directives.
- ✓ Improving scalability and performance of web applications.

Project Overview

Project Name:**SHOPMART**

- ✓ Developed using **Angular** for a scalable and maintainable web application.
- ✓ Implements **component-based architecture** for modular development.
- ✓ Utilizes **client-side routing** for seamless navigation.
- ✓ Leverages **RxJS Observables** for efficient state management and API handling.
- ✓ Enhances UI with **Structural & Attribute Directives**.
- ✓ Ensures responsive and optimized performance with Angular best practices.

Login page

Allows users to authenticate into the system.

Features

- ✓ Template-Driven Form – Handles user authentication seamlessly
- ✓ Custom Pipe – Formats user input (e.g., converts email to lowercase)
- ✓ Local Storage – Stores login credentials for session management
- ✓ Routing Guard – Restricts access to authenticated users

Functionality

- ✓ Users enter credentials and log in securely
- ✓ Form validation implemented using Angular Validators
- ✓ Uses `@Input()` to receive dynamic form configurations
- ✓ Uses `@Output()` to emit login status to the parent component

Login Page

← → ↺ ⓘ localhost:4200/login 🔑 ☆ 🏠 | D ⋮

ShopMart 🛒 🛒



Login

Username

Password

Login

"To shop or not to shop, that's not even a question!"



Products page

Displays a list of products fetched from an API.

Features & Concepts Implemented

- API Calls: Fetches product details from an API.
- **Routing & Parameters:**
 - ✓ Clicking a product dynamically loads its details using routerLink.
 - ✓ ActivatedRoute extracts product ID from the URL.
- **Components:**
 - ✓ Parent component displays all products.
 - ✓ Child component manages individual product cards.
- **Pipes:**
 - ✓ Inbuilt Pipes: CurrencyPipe formats product prices.
 - ✓ Custom pipes: Formats the length of the product description by concatenating certain length with ...

Feedback

🛒 Cart

Logout

Product List



FJALLRAVEN - FOLDSACK NO. 1 BACKPACK, FITS 15 LAPTOPS

Price: \$109.95

Your perfect pack for everyday use and walks in th...

View Details

🛒 Add to Cart



MENS CASUAL PREMIUM SLIM FIT T- SHIRTS

Price: \$22.30

Slim-fitting style, contrast raglan long sleeve, t...

View Details

🛒 Add to Cart



MENS COTTON JACKET

Price: \$55.99

great outerwear jackets for Spring/Autumn/Winter, ...

View Details

🛒 Add to Cart

Product Details Page

Displays complete product information, including name, price, description, images.

Features & Concepts Implemented

- Routing Parameters (ActivatedRoute) – Extracts product ID from the URL to fetch details dynamically.
- API Calls (HttpClient) – Retrieves product data from an API.
- **Parent-Child Communication** (@Input, @Output) –
 - ✓ Parent Component: Fetches and manages product details.
 - ✓ Child Component: Displays images, pricing, and specifications.

Add to Cart Functionality:

- ✓ Uses @Output() to emit events for cart updates.
- ✓ Stores cart data in local storage for persistence.


Product Details Page

← → ↺

localhost:4200/product/13


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Product Details



Price: \$599.00

21.5 inches Full HD (1920 x 1080) widescreen IPS display And Radeon free Sync technology. No compatibility for VESA Mount Refresh Rate: 75Hz - Using HDMI port Zero-frame design | ultra-thin | 4ms response time | IPS panel Aspect ratio - 16: 9. Color Supported - 16. 7 million colors. Brightness - 250 nit Tilt angle -5 degree to 15 degree. Horizontal viewing angle-178 degree. Vertical viewing angle-178 degree 75 hertz

 Add to Cart

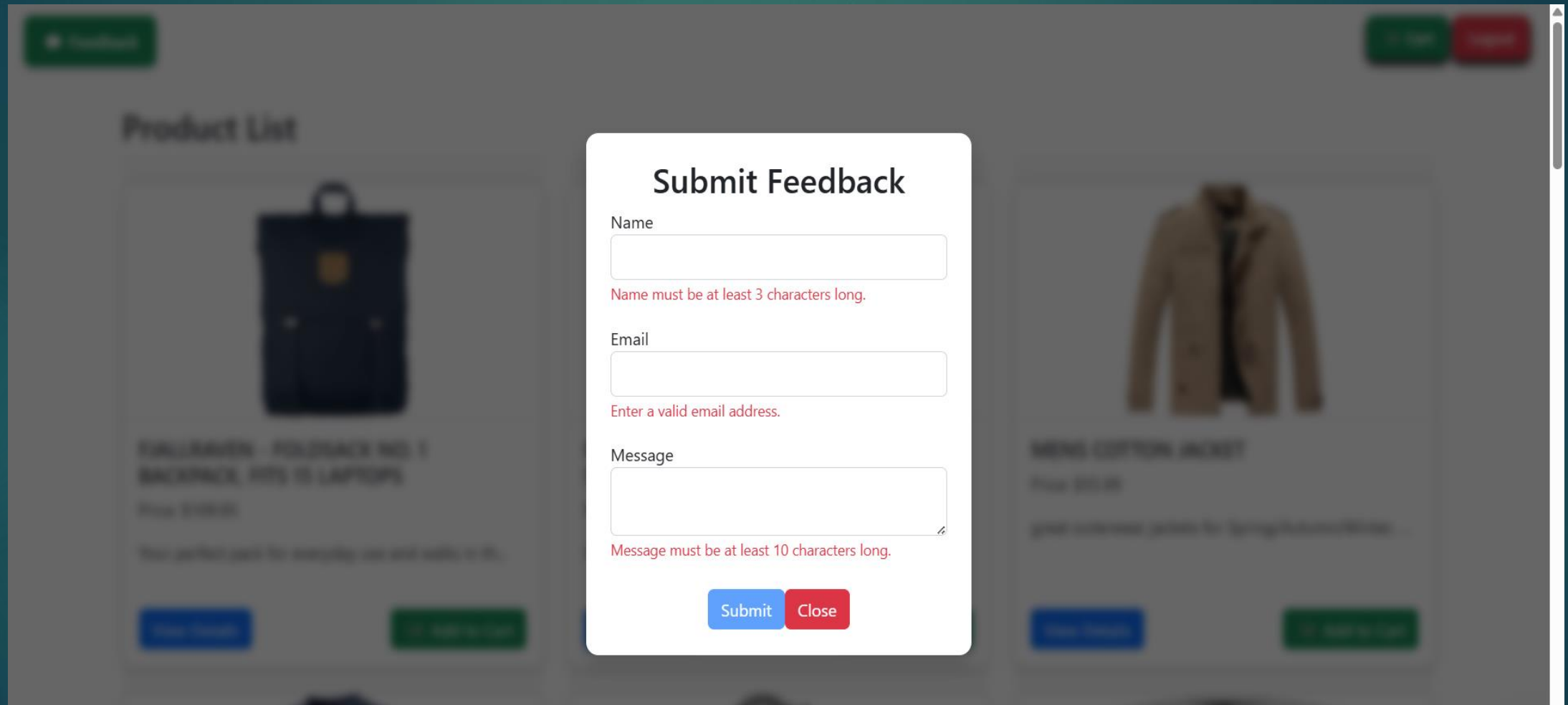
Cart Page

Manages products added to the shopping cart.

Features & Concepts Implemented

- **Parent-Child Communication:**
 - ✓ **Parent Component:** Cart stores products.
 - ✓ **Child Component:** Handles product quantity updates.
- **Local Storage:** Persists cart data even after page refresh.
- **Event Binding:**
 - ✓ Listens to quantity updates and emits data to the parent component.
- **Routing Guard (AuthGuard):** Restricts access to logged-in users.

Feedback form with validation



The image shows a web application interface with a 'Product List' and a 'Submit Feedback' modal form. The modal form has three input fields: 'Name', 'Email', and 'Message'. Each field has a validation message below it: 'Name must be at least 3 characters long.', 'Enter a valid email address.', and 'Message must be at least 10 characters long.' The 'Submit' button is blue and the 'Close' button is red.

Submit Feedback

Name

Name must be at least 3 characters long.

Email

Enter a valid email address.

Message

Message must be at least 10 characters long.

Feedback form

The Feedback Page allows users to submit reviews about their shopping experience.

Features

- ✓ Reactive Forms (Model-Driven Forms) – Handles structured user feedback.
- ✓ Two-Way Binding (`[(ngModel)]`) – Updates form inputs in real time.
- ✓ Custom Validator – Ensures feedback length meets minimum criteria.
- ✓ Observables – Stores feedback asynchronously.

Functionality

- ✓ Captures user reviews and comments.
- ✓ Ensures real-time validation of input fields.
- ✓ Stores feedback for further analysis in the `api(feedback.json)`

Logout Page

Logs out users and clears session data.

Features & Concepts Implemented

- **Local Storage Management:** Clears user session data on logout.
- **Routing Navigation:** Redirects users to the login page post-logout.
- **Routing Guard (AuthGuard):** Prevents logged-out users from accessing restricted pages.