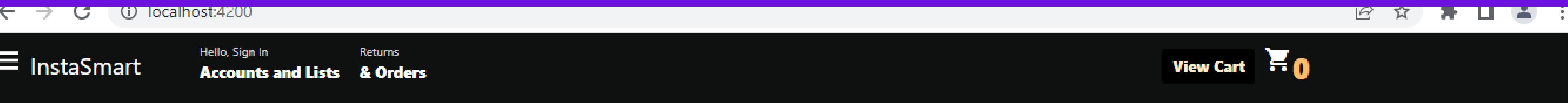


E-COMMERCE APPLICATION

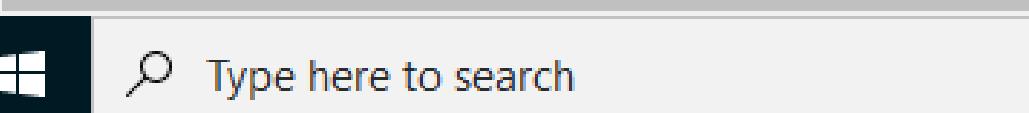
INSTASMART

~ Ayantika Datta
Employee ID- 2142474

HOME PAGE



| Home Products About Us Contact Us



28°C Sunny 13:47
17-01-2023

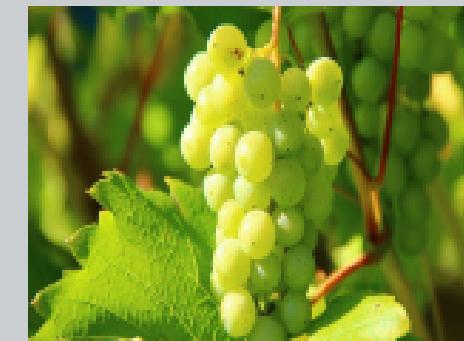
Home page with topheader and navbar. We can login using login button in navbar.

FOOTER WITH HOME PAGE



Stay Healthy With Fruits

Get Delivered the Fruits within 1 day with InstaSmart



@Updated 17 hours ago [@InstaSmart.com](http://InstaSmart.com)

Activate Windows
Go to Settings to activate Windows.



The topheader, navbar and footer is shown in all pages

ABOUT US PAGE

localhost:4200/aboutus

Home Products About Us Contact Us

InstaSmart
The Smartest E-Commerce Application

E-commerce (electronic commerce) is the activity of electronically buying or selling of products on online services or over the Internet. E-commerce draws on technologies such as mobile commerce, electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic data interchange (EDI), inventory management systems, and automated data collection systems. E-commerce is in turn driven by the technological advances of the semiconductor industry, and is the largest sector of the electronics industry.

LIKE SHARE

Know More About Us
See Below Information

The term was coined and first employed by Dr. Robert Jacobson, Principal Consultant to the California State Assembly's Utilities & Commerce Committee, in the title and text of California's Electronic Commerce Act, carried by the late Committee Chairwoman Gwen Moore (D-L.A.) and enacted in 1984. E-commerce typically uses the web for at least a part of a transaction's life cycle although it may also use other technologies such as e-mail. Typical e-commerce transactions include the purchase of products (such as books from Amazon) or services (such as music downloads in the form of digital distribution such as iTunes Store).[1] There are three areas of e-commerce: online retailing, electronic markets, and online auctions. E-commerce is supported by electronic business.[2] The existence value of e-commerce is to allow consumers to shop online and pay online through the Internet, saving the time and space of customers and enterprises, greatly improving transaction efficiency, especially for busy office workers, but also saving a lot of valuable time.

In about us page, two articles are given about our InstaSmart Application

CONTACT US PAGE

localhost:4200/contactus

Home Products About Us Contact Us →

CONTACT US



Enter First Name*

Max 20 characters 0/20

Enter Last Name*

Activate Windows

This is our Contact Us Page

CONTACT US PAGE AFTER SUBMISSION

localhost:4200/contactus

localhost:4200 says
Form Submitted Successfully

OK

Enter First Name*
Ayantika
Max 20 characters

Enter Last Name*
Datta
Max 20 characters 5/20

Enter Email ID*
ayantika@gmail.com
Max 40 characters 18/40

Store Name*
DEF Store

Comments*
No Comments

Activate Windows
Go to Settings to activate Windows.

SAVE

Type here to search

13:51

This is the contact us form where proper validations are done and upon clicking on save it will be submitted

LOGIN PAGE

localhost:4200/login

LOGIN
Please enter your login and password!

ayantika.admin
Username

.....
Password

Login Cancel



Activate Windows
Go to Settings to activate Windows.

This is our login page

LOGIN PAGE WHEN INVALID USER

localhost:4200/login

LOGIN

Please enter your login and password!

ayantik

Username

.....

Password

Login

Cancel

Please Provide Correct Username and Password



Activate Windows
Go to Settings to activate Windows.

Type here to search

28°C Sunny 13:53 17-01-2023

The alert box will be shown if we give any invalid username or password

PRODUCTS PAGE AFTER LOGGING IN AS A USER

InstaSmart Hello, Sign In Returns Accounts and Lists & Orders View Cart 

Home Products About Us Contact Us Welcome ayantika.user 

Filter By Category

- Veggies
- Fruits
- Grocery
- Electronic Device
- Jeans

Filter By Price

- Below 1000
- 1000-5000

List Of Our Products

Potato
Vegetables



This is a Potato

[View Details](#)

Apple
Fruits



This is a Apple

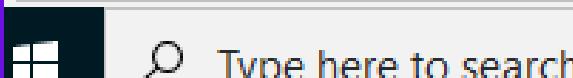
[View Details](#)

Realme 1 Pro
Electronic Device



This is a Realme 1 Pro

Activate Windows Mobile
Go to Settings to activate Windows.



This is the products page when we login as a user. We can see the welcome name and logout on the right side in our navbar. And we can filter the products by their category and price.

AFTER CLICKING ON A PRODUCT'S DETAILS

localhost:4200/products/P012

HOME PRODUCTS ABOUT US CONTACT US



Lenovo Tab M2

Product Id	P012
Product Name	Lenovo Tab M2
Product Price	Rs. 70000
Product Category	Electronic Device
Product Description	This is Lenovo M2 Tab
Seller Name	GFD Seller
Seller Location	Ranchi

 ADD TO CART

 BACK TO PRODUCTS

Activate Windows
Go to Settings to activate Windows.

Type here to search ○ ⟳ ⟳ Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ 28°C Sunny 13:57 17-01-2023 ENG

After clicking on view details of any product we can see the details and add to cart it or back to the products page.

ANOTHER PRODUCT DETAILS

localhost:4200/products/P009



Grapes

Product Id	P009
Product Name	Grapes
Product Price	Rs. 400
Product Category	Fruits
Product Description	This is the Grapes
Seller Name	VFG Seller
Seller Location	Patna

ADD TO CART

[BACK TO PRODUCTS](#)

Activate Windows
Go to Settings to activate Windows.



Type here to search



28°C Sunny 13:57
17-01-2023

This is another product details.

CART AFTER ADDING SOME PRODUCTS

The screenshot shows a web browser displaying a shopping cart page from 'InstaSmart'. The top header includes links for 'Hello, Sign In', 'Returns', 'Accounts and Lists & Orders', 'View Cart' (with a cart icon showing '2'), and a user profile for 'ayantika.user'. The main content area displays a table of products in the cart:

ID	NAME	IMAGE	QUANTITY
P009	Grapes		4
P012	Lenovo Tab M2		1

A large orange shopping cart icon is positioned next to the cart summary. The total price is displayed as **Total Price: 71600**. At the bottom, there are two buttons: a blue **CHECKOUT** button and a yellow **CONTINUE SHOPPING** button. A watermark for 'Activate Windows' is visible in the background.

This is the cart. After adding product to cart the number increased in the top header beside the cart icon. And on clicking on the view cart we can check our cart . If the cart is empty the checkout button is disabled. We can increase or decrease our product's quantity and the total price will be calculated simultaneously. By clicking on continue shopping we can go to products page.

PAYMENT PAGE

localhost:4200/payment

InstaSmart

Apply Coupons

Pay With NetBanking

PAY WITH CARD

Enter Credit Card Number*

Max 12 numbers 0/12

Enter Card Holder Name*

Max 30 characters 0/30

Card Expiry Date*
1/12/2022

MM/DD/YYYY

Enter CVV*

Max 3 characters 0/3

SUBMIT

Activate Windows
Go to Settings to activate Windows.

Type here to search

28°C Sunny 14:00

After clicking on checkout the user will be taken to the payment page.

VALIDATIONS DONE IN PAYMENT FORM

The screenshot shows a payment interface for 'InstaSmart'. At the top, there are green buttons for 'Apply Coupons' and 'Pay With NetBanking'. Below them is a large green button labeled 'PAY WITH CARD'. Inside this button, there are several input fields and validation messages:

- 'Enter Credit Card Number*' field contains '345'. A red error message below it says 'Length of Card number is 12'.
- 'Enter Card Holder Name*' field has a red error message: 'Credit Card Holder Name is required'.
- 'Card Expiry Date*' field contains '1/12/2022'.
- 'MM/DD/YYYY' field is empty.
- 'Enter CVV*' field has a red error message: 'Max 3 characters'.

A green 'SUBMIT' button is at the bottom right of the card input area. To the right of the payment form, there is a decorative illustration of a hand holding a smartphone displaying a payment screen with a \$200 balance. Below the payment form, a message reads 'Activate Windows Go to Settings to activate Windows.' The bottom of the screen shows a Windows taskbar with icons for File Explorer, Mail, and Google Chrome, along with system status indicators like battery level, temperature, and network connection.

In the payment form, proper validations are done.

GIVEN PAYMENT FORM INPUTS

localhost:4200/payment

InstaSmart

Apply Coupons

Pay With NetBanking

PAY WITH CARD

Enter Credit Card Number*
789045667890

Max 12 numbers 12/12

Enter Card Holder Name*
Ayantika

Max 30 characters 8/30

Card Expiry Date*
11/24/2023

MM/DD/YYYY

Enter CVV*
789

Max 3 characters 3/3

SUBMIT

Activate Windows
Go to Settings to activate Windows.

Here all the inputs are correctly given and we can submit.

AFTER COMPLETING THE PAYMENT

localhost:4200/payment

Hello, Sign In Returns
Accounts and Lists & Orders

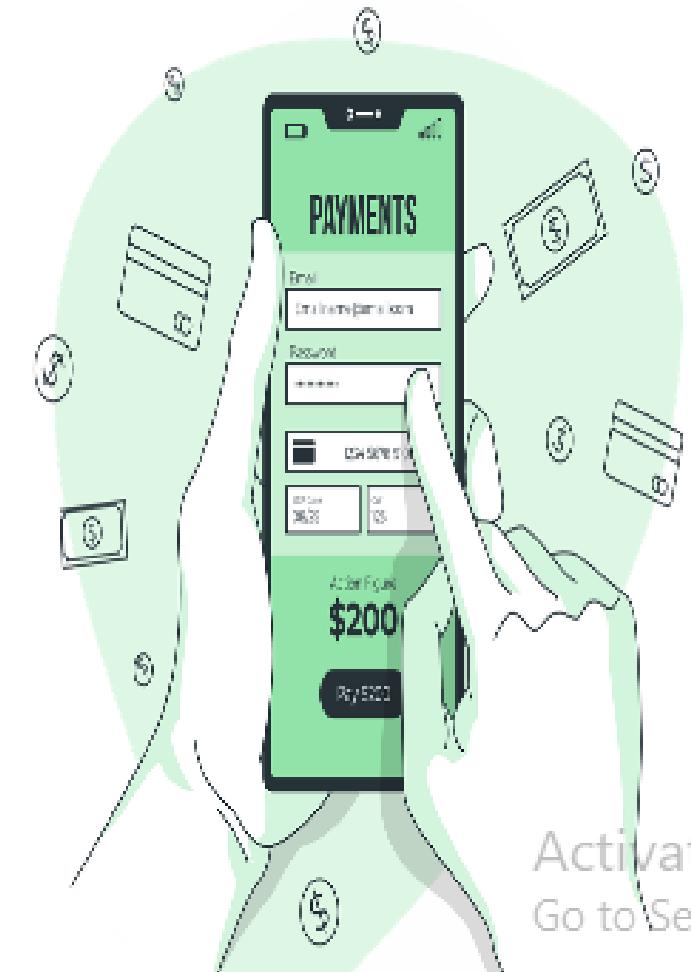
View Cart 

All Home Products About Us Contact Us Welcome ayantika.user 

Thank You for Shopping With Us

Continue your Shopping

[Continue Shopping](#)



Activate Windows
Go to Settings to activate Windows.

Type here to search       

28°C Sunny 14:03
17-01-2023 ENG

After clicking on submit the cart will be empty , and this page is shown to user. Here on clicking to the continue shopping the user can go to products and continue shopping.

LOGGED IN AS ADMIN

localhost:4200/login



LOGIN

Please enter your login and password!

ayantika.admin

Username

.....

Password

Login

Cancel



Activate Windows
Go to Settings to activate Windows.

Type here to search



28°C Sunny 14:06
17.01.2023

Now, we logged out as a user and logging in as admin.

PRODUCTS PAGE AFTER LOGGING IN AS AN ADMIN

localhost:4200/products

InstaSmart Accounts and Lists & Orders View Cart 0

Home Products About Us Contact Us Welcome ayantika.admin

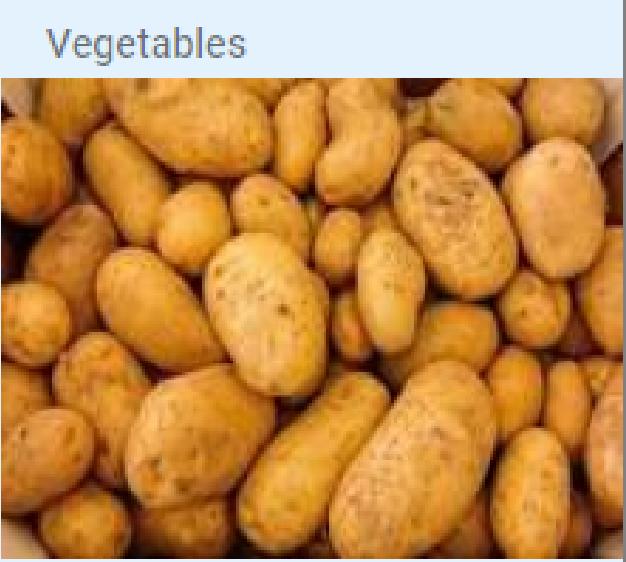
List Of Our Products

Filter By Category

- Vegies
- Fruits
- Grocery
- Electronic Device
- Jeans

Filter By Price

- Below 1000
- 1000-5000

Potato
Vegetables

This is a Potato
[EDIT](#) [DELETE](#)

Apple
Fruits

This is a Apple
[EDIT](#) [DELETE](#)

Realme 1 Pro
Electronic Device

This is a Realme 1 Pro Mobile
[EDIT](#) [DELETE](#)

Type here to search

28°C Sunny ENG 14:07 17-01-2023

This is the products page after logging in as an admin. Here an edit, delete icon will be there in each product and below the products , add new product button will be there.

AFTER CLICKING ON ADD NEW PRODUCT

ADD NEW PRODUCT

ADD NEW PRODUCT

PRODUCT ID*

Enter The Product Id 0 / 5

PRODUCT NAME*

Enter The Product Name 0 / 25

PRODUCT IMAGE URL*

Enter The Product Image Url 0 / 50

PRODUCT DESCRIPTION*

Enter Something About the product 0 / 200

PRODUCT PRICE*

0
Enter the product price

PRODUCT CATEGORY*

Enter The Product Category 0 / 25

PRODUCT SELLER NAME*

Activate Windows
Go to Settings to activate Windows.



Type here to search

28°C Sunny 14:08 17-01-2023

After clicking on add new product, the form will appear to add a new product.

VALIDATIONS DONE ON FORM

localhost:4200/products/addProduct

[View Details](#)

[ADD NEW PRODUCT](#)

ADD NEW PRODUCT

PRODUCT ID*
Product ID is required

PRODUCT NAME*
Product Name is required

PRODUCT IMAGE URL*
Ex. ./url
Product imageUrl is required

PRODUCT DESCRIPTION*
Enter Something About the product 0 / 200

PRODUCT PRICE*
0
Enter the product price

PRODUCT CATEGORY*
Enter The Product Category 0 / 25

PRODUCT SELLER NAME*

Activate Windows
Go to Settings to activate Windows.

Type here to search

14:09

Proper validations are done on the add new product form.

INPUT GIVEN ON ADD NEW PRODUCT FORM

localhost:4200/products/addProduct

Enter The Product Id 4 / 5
PRODUCT NAME*
Mango

Enter The Product Name 5 / 25
PRODUCT IMAGE URL*
./../assets/images/mango.jpg

Enter The Product Image Url 29 / 50
PRODUCT DESCRIPTION*
This is a mango

Enter Something About the product 15 / 200
PRODUCT PRICE*
70

Enter the product price
PRODUCT CATEGORY*
Fruits

Enter The Product Category 6 / 25
PRODUCT SELLER NAME*
ABC Seller

Enter The Product Seller Name 10 / 25
PRODUCT SELLER LOCATION*
Kolkata

Enter The Product Seller Location 7 / 25
PRODUCT QUANTITY*
0

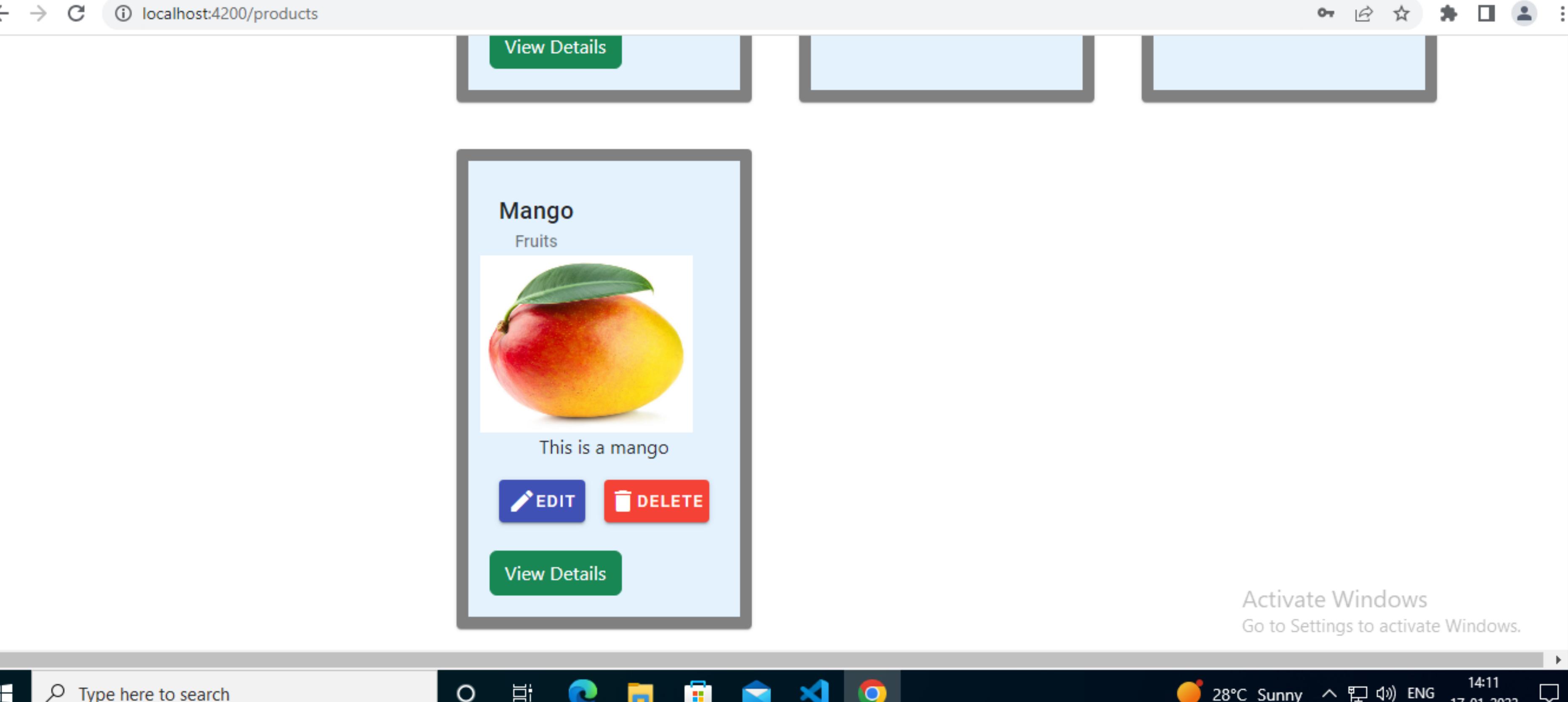
Enter the product quantity

SAVE

Activate Windows
Go to Settings to activate Windows.

Here, all the inputs are correctly given and we can save it.

NEW PRODUCT SUCCESSFULLY ADDED



A screenshot of a web browser window displaying a product card for a mango. The card has a grey border and contains the following information:

- Mango**: The product name.
- Fruits**: The category.
- 
- This is a mango**: A descriptive text below the image.
- EDIT**: A blue button with a pencil icon.
- DELETE**: A red button with a trash bin icon.
- View Details**: A green button at the bottom.

The browser's address bar shows `localhost:4200/products`. The status bar at the bottom right of the screen displays "Activate Windows Go to Settings to activate Windows." The taskbar at the bottom includes icons for File Explorer, Mail, and Google Chrome, along with system status indicators like battery level, signal strength, and date/time (14:11, 17-01-2023).

After clicking on save, the new product is successfully added to the products.

UPON CLICKING ON EDIT A PRODUCT

The screenshot shows a product editing form titled "EDIT P013 Boat 1 Wireless EarPhone DETAILS". The form consists of several input fields with validation counts:

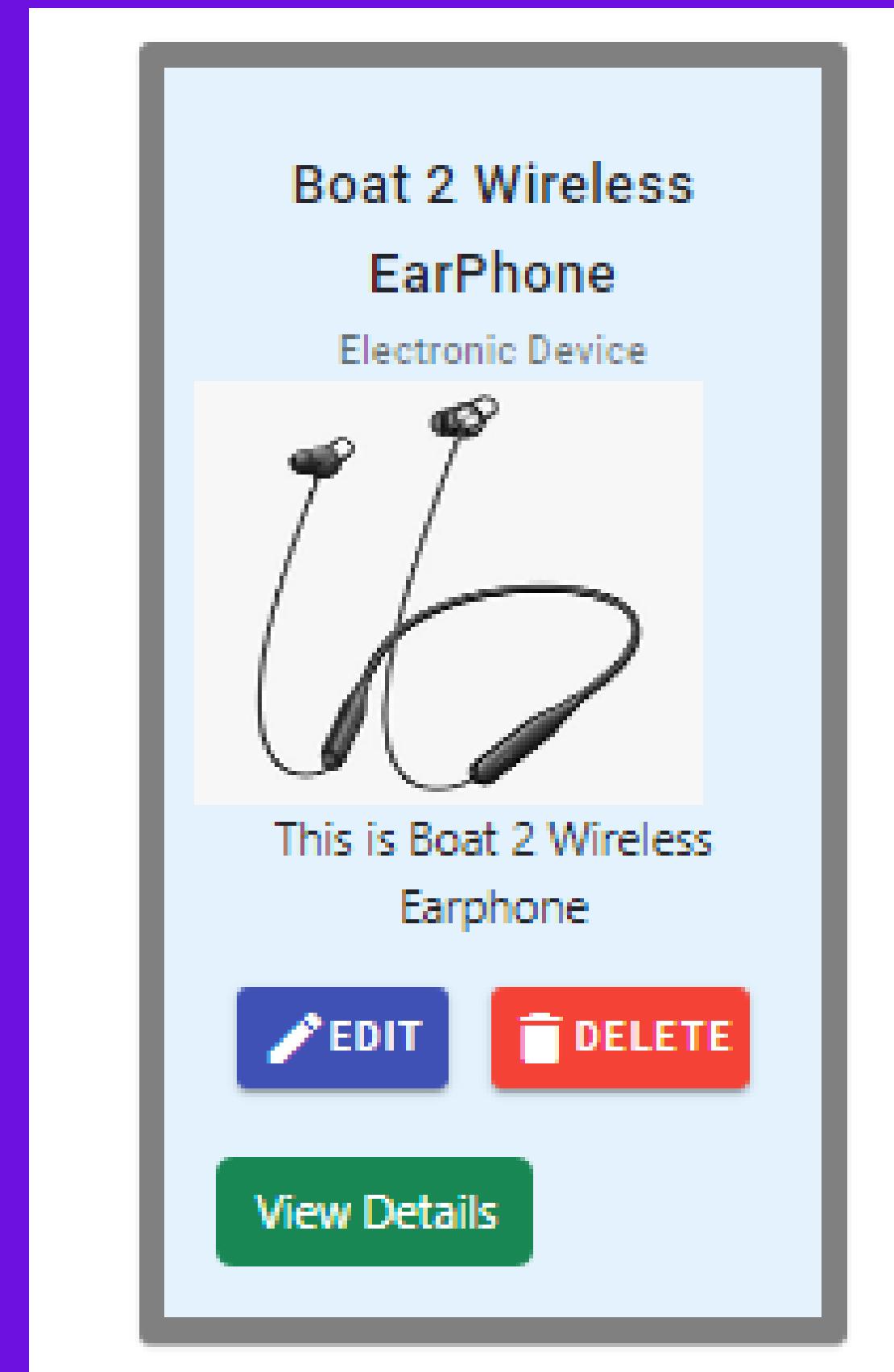
- PRODUCT ID*: P013 (Validation: 4 / 5)
- Enter The Product Id
- PRODUCT NAME*: Boat 2 Wireless EarPhone (Validation: 24 / 25)
- Enter The Product Name
- PRODUCT IMAGE URL*: ../../assets/images/earphone.jpg (Validation: 32 / 50)
- Enter The Product Image Url
- PRODUCT DESCRIPTION*: This is Boat 2 Wireless Earphone (Validation: 32 / 200)
- Enter Something About the product
- PRODUCT PRICE*: 8000
- Enter the product price
- PRODUCT CATEGORY*: Electronic Device
- Enter The Product Category (Validation: 17 / 25)
- PRODUCT SELLER NAME*: BHJ Seller (Validation: 10 / 25)
- Enter The Product Seller Name
- PRODUCT SELLER LOCATION*: Kolkata (Validation: 7 / 25)
- Enter The Product Seller Location
- PRODUCT QUANTITY*: 0 (Validation: 0 / 25)
- Enter the product quantity

A green "SAVE" button is located at the bottom center of the form.

The browser address bar shows "localhost:4200/products/editProduct". The status bar at the bottom right indicates "Activate Windows Go to Settings to activate Windows." and the time "14:12".

After clicking on edit icon from a product, the form will appear for editing the product. Here also, the validations are done. And on clicking on save, the product will be edited.

PRODUCT SUCCESSFULLY EDITED



The product will be successfully edited.

ON DELETING A PRODUCT

localhost:4200 products

localhost:4200 says
Are You Sure to Delete P010 Sunflower Oil Details
OK Cancel

This is the Sunflower Oil

EDIT DELETE

View Details

This is the AB Sugar

EDIT DELETE

View Details

Lenovo Tab M2
Electronic Device

12:30

This is Lenovo M2 Tab

EDIT DELETE

View Details

Activate Windows
Go to Settings to activate Windows.

Type here to search

14:14

When we click on delete icon for a product, an alert box will come for confirming, and on clicking on ok , the product will be deleted.

REDUX DEVTOOLS WHEN LOADING THE PRODUCTS

The screenshot shows a web application for "InstaSmart" with a sidebar for filtering products by category and price. The main content displays a list of products, currently showing a single item: "Potato". The Redux DevTools extension is open in the browser's developer tools, showing the state tree with actions like "[Product] Load" and "[Product] Load Success". The DevTools also show highlights from the Chrome 109 update.

InstaSmart

Hello, Sign In

Returns

Accounts and Lists & Orders

Cart 0

List Of Our Products

Potato

Vegetables

This is a Potato

EDIT DELETE

Filter By Category

- Veggies
- Fruits
- Grocery
- Electronic Device
- Jeans

Filter By Price

- Below 1000
- 1000-5000

localhost:4200/products

Elements Console Sources Network Redux NgRx Store DevTools

Actions Settings

filter... @ngrx/effects/init +00:00.00

@ngrx/store/update-reducers +00:00.14

[Product] Load +00:00.01

[Product] Load Success +00:00.51

[Product] Load Success (5)

Diff Action State Di

Tree Raw

products (pin)

products (pin): { 0: {..}, 1: {..}, 2: {..}, }

Inspector Log monitor Chart RTK Query

Console What's New Issues

Highlights from the Chrome 109 update

Recorder panel updates

New step context menu, option to copy a single step from a script, remove the first navigation step, and more.

Improved JavaScript debugging

Inline preview for WeakRef, correct preview of shadowed inline variable, and

Activate Windows Go to Settings to activate Windows. new

Type here to search

28°C Sunny 14:15 17-01-2023

I have used ngrx store for products and cart. So, it is the redux devtool when loading the products

REDUX DEVTOOLS WHEN ADDING A NEW PRODUCT

The screenshot shows a web application interface for managing products. On the left, a modal window displays a mango image with the title "Mango" and the category "Fruits". Below the image, the text "This is a mango" is visible. At the bottom of the modal are three buttons: "EDIT" (blue), "DELETE" (red), and "View Details" (green). At the very bottom of the page is a large blue button labeled "ADD NEW PRODUCT".

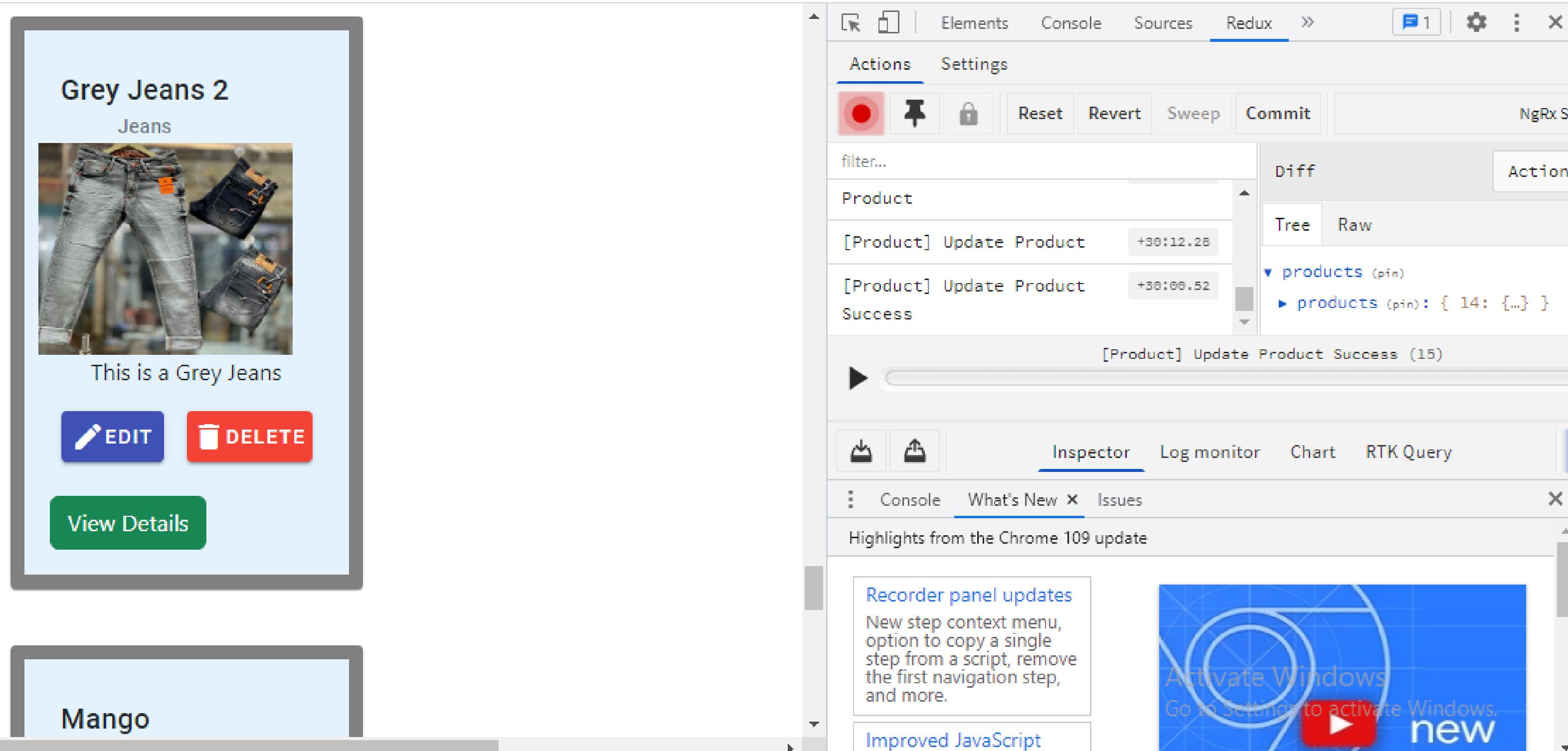
On the right side of the browser window, the Redux DevTools extension is open. The "Actions" tab is selected, showing a timeline of actions:

- [Product] Create Product +30:44.63
- [Product] Create Product +30:00.51
- Success

Below the actions, there is a "Diff" section showing the state changes, and a sidebar with "Tree" and "Raw" options. The "Inspector" tab is also visible at the bottom of the devtools panel.

Redux devtool when a new product is added.

REDUX DEVTOOLS WHEN EDITING A PRODUCT



Redux Devtool when a product is edited.

REDUX DEVTOOLS WHEN DELETING A PRODUCT

The screenshot shows a web browser window with the URL `localhost:4200/products`. On the left, there is a product detail card for "Grey Jeans" with a "View Details" button. The main content area displays the same product information: "Grey Jeans" and "Jeans" with an image of the jeans. On the right, the **Redux Devtools** extension is open. The **Actions** tab is selected, showing a red circular button icon, a pin icon, a lock icon, and buttons for "Reset", "Revert", "Sweep", and "Commit". Below these are two log entries under the "Success" section:

- [Product] Delete Product +30:31.31
- [Product] Delete Product +30:00.52

The **Diff** tab is also visible, showing a tree view of state changes, with a node for "products" expanded to show "currentProductId". The **Inspector** tab is selected at the bottom.

Redux Devtool When A Product is deleted.

REDUX DEVTOOLS WHEN ADDED PRODUCT TO CART

The screenshot shows a product detail page for "Grey Jeans" with the following information:

Product Id	P015
Product Name	Grey Jeans
Product Price	Rs. 6000
Product Category	Jeans
Product Description	This is a Grey Jean
Seller Name	LOP Seller
Seller Location	Jaipur

Buttons on the page include "ADD TO CART" and "BACK TO PRODUCTS".

The browser's developer tools are open, showing the Redux DevTools extension. The "Redux" tab is selected, displaying a timeline of actions:

- [Product] Load Success
- [Cartitem] Create Cartitem +30:03.14
- [Cartitem] Create Cartitem +30:00.50 Success
- [Cartitem] Create Cartitem Success (23)

The "Diff" tab is selected in the sidebar, showing a comparison between the current state and the previous state.

At the bottom of the devtools, there are sections for "Inspector", "Log monitor", "Chart", and "RTK Query". A "Highlights from the Chrome 109 update" section is also visible.

Redux devtool when product is added to cart

REDUX DEVTOOLS WHEN LOADING AND DELETING CART ITEMS

The screenshot shows a web application interface for managing a shopping cart. On the left, there is a table with columns: ID, NAME, IMAGE, and QUANTITY. A single item, "Potato" (ID P001), is listed with a quantity of 1. To the right of the table is a large icon of a shopping cart containing a single potato. Below the cart icon, a green box displays "Total Price: 200". At the top of the page, there is a navigation bar with links for "Hello, Sign In", "Returns", "Accounts and Lists", and "& Orders". A shopping cart icon with the number "1" is also present in the top right corner.

The right side of the screen features the Redux DevTools extension for Google Chrome. The "Redux" tab is selected, showing a timeline of actions:

- [Cartitems] Load Success
- [CartItem] Delete Cartitem
- [CartItem] Delete Cartitem Success
- [CartItem] Delete Cartitem Success (30)

Below the timeline, the state tree is visible, showing a node for "carts (pin)" with the key "currentProductId" set to "P015" and its value changed to "null".

At the bottom of the DevTools panel, there are sections for "Inspector", "Log monitor", "Chart", and "RTK Query". The status bar at the very bottom of the browser window shows the date and time as "14:21 17-01-2023".

Redux Devtool when loading the cart items and deleting a cart item

TESTING

Chrome is being controlled by automated test software. X

Karma v 6.4.1 - connected; test: complete;

DEBUG

Chrome 109.0.0.0 (Windows 10) is idle

Jasmine 4.5.0

Options

150 specs, 0 failures, randomized with seed 16827

finished in 5.568s

```
ProducteditComponent
  • should have the product name
  • should have the product imageUrl
  • should check the input type of product category
  • should check the input type of product quantity
  • should create
  • should have the product id
  • should have the product seller name
  • should check the button disabled when invalid
  • should have the product price
  • should check the form control name of product name
  • should check the form control name of product id
  • should have the product description
  • should check the input type of product price
  • should have the product category
  • should check the input type of product description
  • should check the form control name of product description
  • should check the input type of product id
  • should check the form control name of product imageUrl
  • should check the input type of product name
  • should check the input type of product seller location
```

Activate Windows
Go to Settings to activate Windows.

14:23

Testing are done for all components and services.