

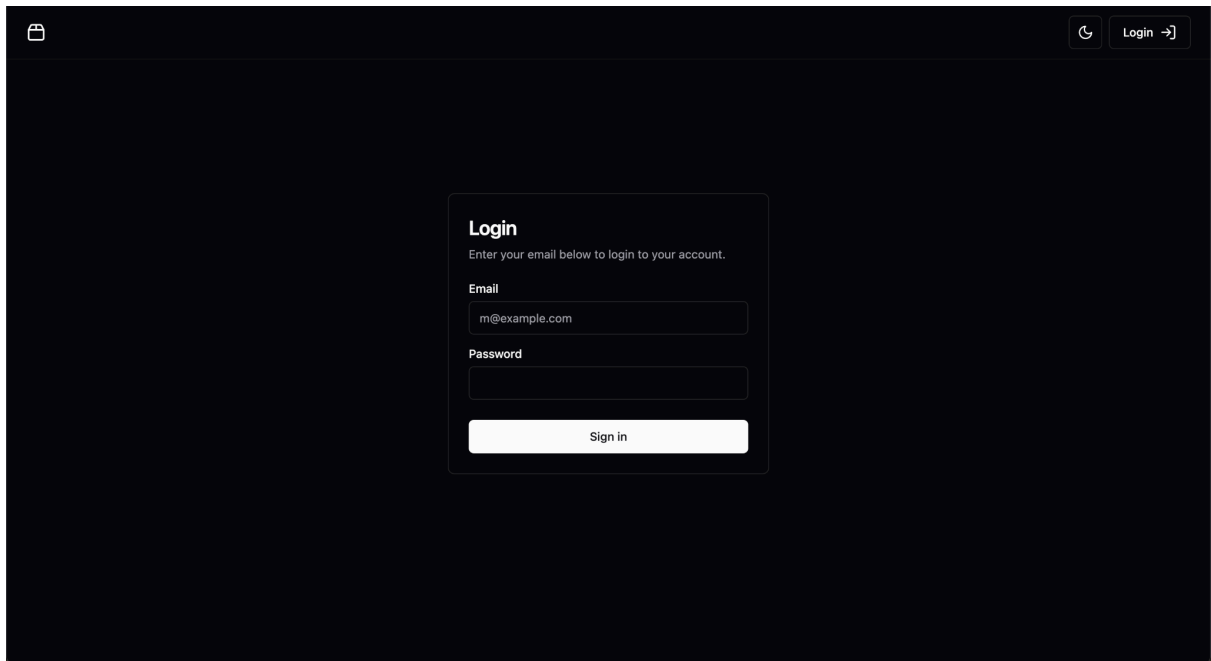
# **Campus Buy / Sell Portal Management**

## **CS 432: Databases**

### **Assignment-3**

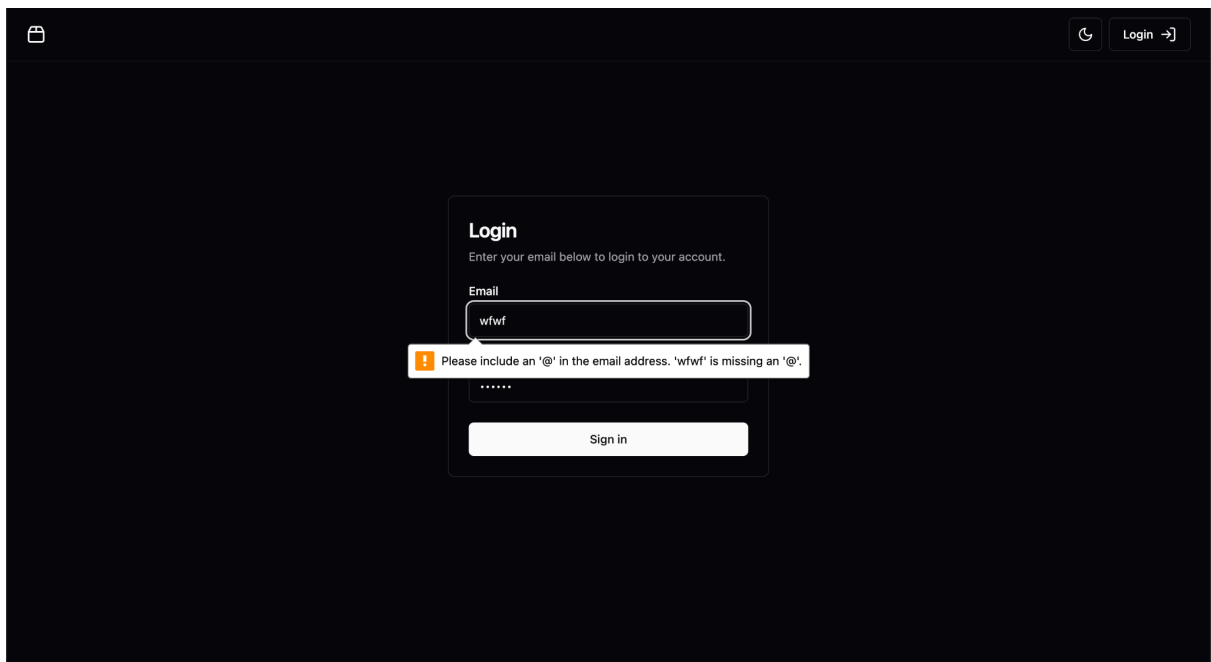
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A screenshot of a web application's login page. The page has a dark background. In the top right corner, there is a refresh icon and a button labeled "Login →". In the center, there is a "Login" form. The form has a title "Login" and a subtitle "Enter your email below to login to your account." Below the subtitle, there are two input fields: "Email" and "Password". The "Email" field contains the text "m@example.com". Below the input fields, there is a "Sign in" button.

This is the login page for the Web Application.



A screenshot of the same login page as above, but with an invalid email address. The "Email" field now contains the text "wfwf". Below the input fields, there is a "Sign in" button. An error message is displayed below the "Email" field: "Please include an '@' in the email address. 'wfwf' is missing an '@'".

Constraint check for the login page, user cannot login without proper email format.

Pagination:  
page-1






DashboardMy TransactionsMy ProductsCustomersAnalytics

Search products...

FilterExportAdd Product

Products

Manage your products and view their sales.

	Name	Subcategory	Status	Price	Quantity	Created at	
	Macbook M1	Smartphones	Available	954.00	4	2024-04-05 10:26 PM	...
	Iphone 15	Laptops	Available	634.00	2	2024-04-05 10:26 PM	...
	Ipad Air	Tablets	Available	12.00	1	2024-04-05 10:26 PM	...
	Boat Headphones	Headphones	Available	364.00	3	2024-04-05 10:26 PM	...
	Nikon DSLR	Cameras	Available	5.00	4	2024-04-05 10:26 PM	...

Showing 1-5 of 10 products

Page-2






DashboardMy TransactionsMy ProductsCustomersAnalytics

Search products...

FilterExportAdd Product

Products

Manage your products and view their sales.

	Name	Subcategory	Status	Price	Quantity	Created at	
	Sony SmartTV	Televisions	Available	269.00	3	2024-04-05 10:26 PM	...
	Apple Watch Series 9	Smart Watches	Available	560.00	4	2024-04-05 10:26 PM	...
	Mixer-Grinder	Gaming Consoles	Available	186.00	3	2024-04-05 10:26 PM	...
	PSS	Accessories	Available	812.00	4	2024-04-05 10:26 PM	...
	Heater	Home Appliances	Available	166.00	3	2024-04-05 10:26 PM	...

Showing 6-10 of 10 products

Pagination retrieves only the desired amount of products and its details from the database per page. Here in the example shown for a catalog of 10 products, 5 are displayed per page.

## Active products

DashboardMy TransactionsMy ProductsCustomersAnalytics

Q Search products...






🔄👤

AllActiveSoldArchived

FilterExportAdd Product

Active Products

Manage your listed products.

	Name	Subcategory	Status	Price	Quantity	Created at	
	Sony SmartTV	Televisions	Available	269.00	3	2024-04-05 10:26 PM	...
	Apple Watch Series 9	Smart Watches	Available	560.00	4	2024-04-05 10:26 PM	...
	Mixer-Grinder	Gaming Consoles	Available	186.00	3	2024-04-05 10:26 PM	...
	PS5	Accessories	Available	812.00	4	2024-04-05 10:26 PM	...
	Heater	Home Appliances	Available	166.00	3	2024-04-05 10:26 PM	...

These are obtained with respect to the seller persona of the user. A query is run on the listings table with the user id of the user to get the relevant products.

## Sold products

DashboardMy TransactionsMy ProductsCustomersAnalytics

Q Search products...

🔄👤

AllActiveSoldArchived

FilterExportAdd Product

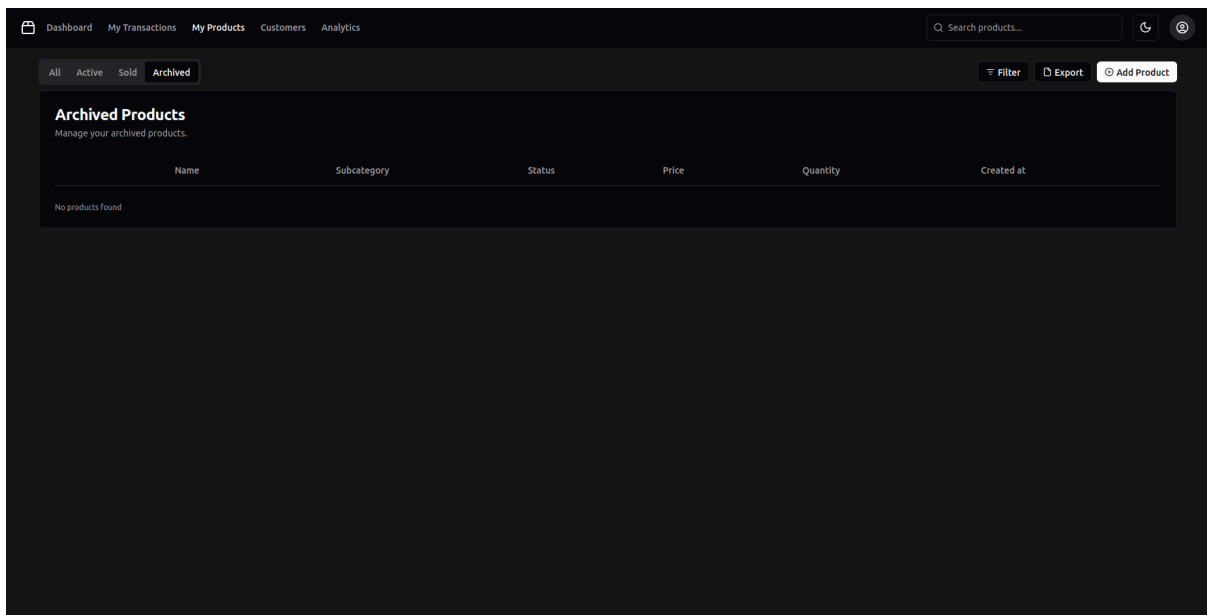
Sold Products

Manage your sold products and view their sales.

	Name	Subcategory	Status	Price	Quantity	Created at	
No products found							

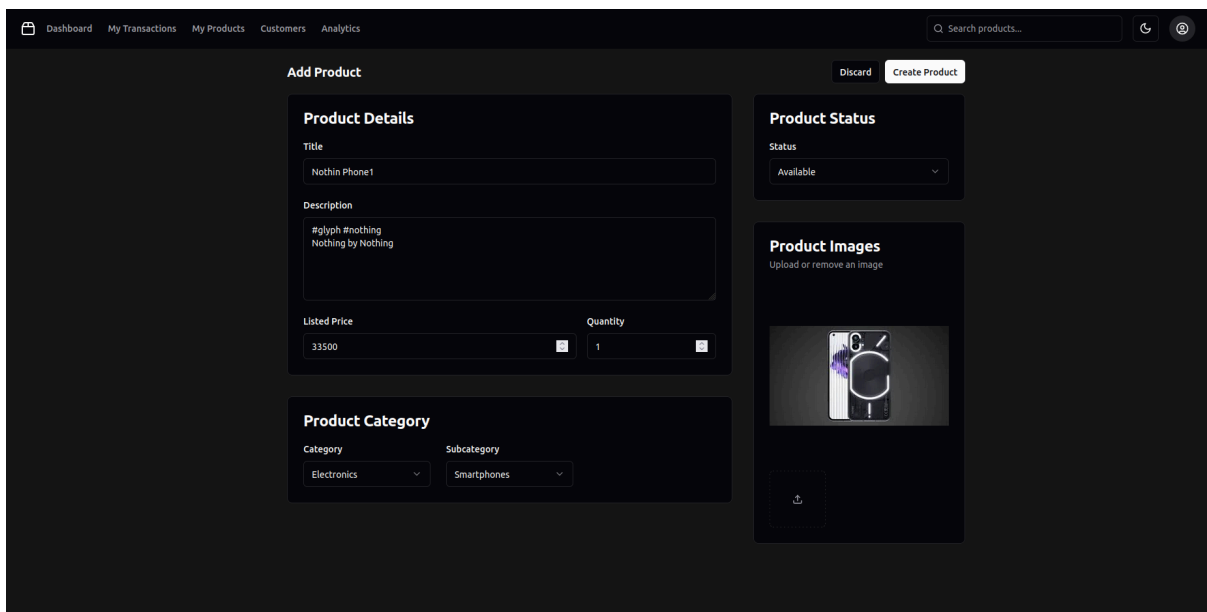
This displays all products that have been sold by the user as a seller. This is obtained by running a join between the user and listings tables, and then getting all the products with the specific user id and the product status as sold.

## Archived products



This displays all products that have been archived by the user as a seller. This is obtained by running a join between the user and listings tables, then getting all the products with the specific user id and the product status as archived.

## Uploading new products:



This is a utility to add a new listing by the present user. This uses the POST HTTP method to update the relevant tables - the product and listing tables.

New Product Added:






DashboardMy TransactionsMy ProductsCustomersAnalytics

Q Search products...

FilterExportAdd Product

Products

Manage your products and view their sales.

	Name	Subcategory	Status	Price	Quantity	Created at	
	Nothing Phone 1	Smartphones	Available	33500.00	1	2024-04-05 10:29 PM	...
	Macbook M1	Smartphones	Available	954.00	4	2024-04-05 10:26 PM	...
	Iphone 15	Laptops	Available	634.00	2	2024-04-05 10:26 PM	...
	Ipad Air	Tablets	Available	12.00	1	2024-04-05 10:26 PM	...
	Boat Headphones	Headphones	Available	364.00	3	2024-04-05 10:26 PM	...

Showing 1-5 of 11 products

prod_id	prod_title	description	status	prod_condition	list
ed_price	quantity	date_listed	date_modified	flagging	subcategory_id
1	Macbook M1	This is a Macbook M1	Available	Used	
954.00	4	2024-04-05 16:56:04	NULL	0	1
2	Iphone 15	This is a Iphone 15	Available	New	
634.00	2	2024-04-05 16:56:04	NULL	0	2
3	Ipad Air	This is a Ipad Air	Available	Used	
12.00	1	2024-04-05 16:56:04	NULL	0	3
4	Boat Headphones	This is a Boat Headphones	Available	Used	
364.00	3	2024-04-05 16:56:04	NULL	0	4
5	Nikon DSLR	This is a Nikon DSLR	Available	New	
5.00	4	2024-04-05 16:56:04	NULL	0	5
6	Sony SmartTV	This is a Sony SmartTV	Available	Used	
269.00	3	2024-04-05 16:56:04	NULL	0	6
7	Apple Watch Series 9	This is a Apple Watch Series 9	Available	New	
560.00	4	2024-04-05 16:56:04	NULL	0	7
8	Mixer-Grinder	This is a Mixer-Grinder	Available	New	
186.00	3	2024-04-05 16:56:04	NULL	0	8
9	PS5	This is a PS5	Available	Used	
812.00	4	2024-04-05 16:56:04	NULL	0	9
10	Heater	This is a Heater	Available	New	
166.00	3	2024-04-05 16:56:04	NULL	0	10

10 rows in set (0.00 sec)

```
mysql> select * from Product_Image;
+-----+-----+-----+-----+-----+-----+
| image_id | image_url |
+-----+-----+-----+-----+
| 1 | https://www.aptronixindia.com/pub/media/catalog/product/m/b/mbp14-spacegray-select-202110-removebg-preview_2__1.png |
| 2 | https://encrypted-tbn0.gstatic.com/images?q=tbn:AND9GcS3GgYI1boRNJYqmw6sEvaZURa7ylX1UobMhA&s |
| 3 | https://store.storeimages.cdn-apple.com/4668/as-images.apple.com/is/ipad-air-finish-select-gallery-202211-purple-wificell_AV1_FMT_WHH?wid=1280&hei=720&fmt=p-jpg&qlt=95&.v=1670633077291 |
| 4 | https://www.boat-lifestyle.com/cdn/shop/products/rockerz-518-blue.png?v=1613731627 |
| 5 | https://5.imimg.com/data5/SELLER/Default/2022/9/OK/RL/XN/42175339/nikon-d7500-dslr-camera-500x500.jpg |
| 6 | https://encrypted-tbn0.gstatic.com/images?q=tbn:AND9GcQhV8r1EAhL0nemzWh4b0IK-uDujSiYbEp2GfPZcxTVYA&s |
| 7 | https://encrypted-tbn0.gstatic.com/images?q=tbn:AND9GcSFTmmFpJKrm2d5BeMu6qGsvXa_05BE5ZCDaD6TxEWYkQ&s |
| 8 | https://5.imimg.com/data5/SELLER/Default/2023/8/334128858/YQ/JG/IN/5847953/mixer-grinder-for-home-750-watt.jpg |
| 9 | https://5.imimg.com/data5/SELLER/Default/2023/8/334128858/YQ/JG/IN/5847953/mixer-grinder-for-home-750-watt.jpg |
| 10 | https://images-cdn.ubuy.co.in/633b131b9bfd300af1121135-smartdevil-space-heater-70.jpg |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

We have attached screenshots of the INSERT operations that are taking place. As is visible, the new entry of Nothing Phone1 has been added to the database, and the Product\_image table has also been accordingly updated.

Editing the uploaded product:

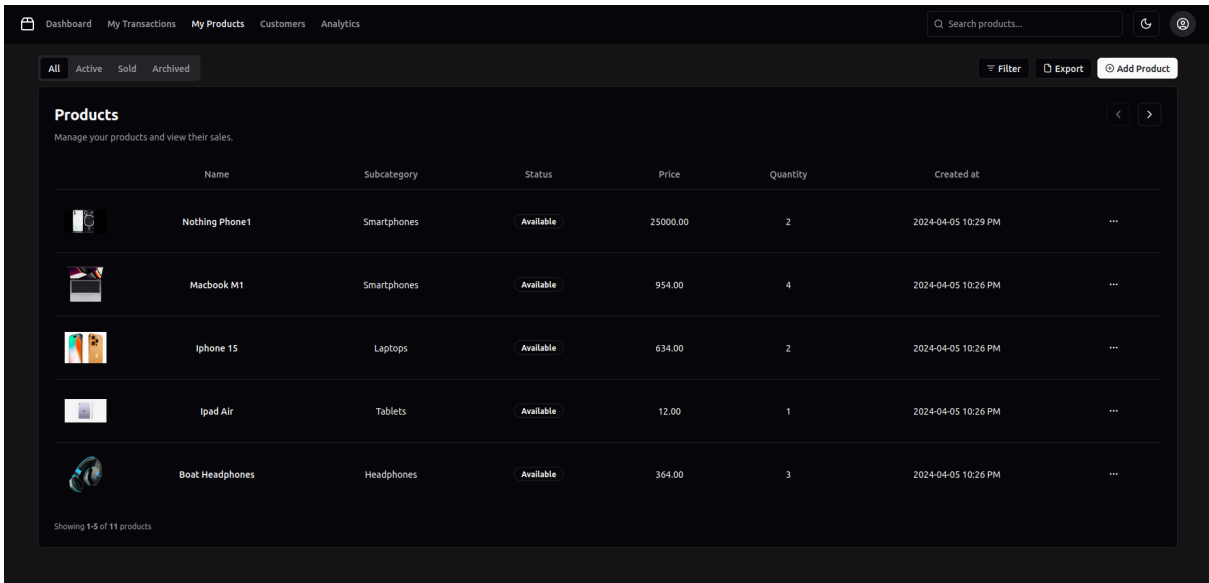
The screenshot shows a web application interface for editing a product. The top navigation bar includes links for Dashboard, My Transactions, My Products, Customers, and Analytics, along with a search bar and user profile icon. The main content area is titled 'Edit Product' and features two tabs: 'Discard' and 'Save Product'. The 'Product Details' section contains the following fields:

- Title:** Nothing Phone1
- Description:** #glyph #nothing, Nothing by Nothing
- Listed Price:** 25000
- Quantity:** 2
- Product Category:** Electronics
- Subcategory:** Smartphones

The 'Product Images' section displays a preview of the product image and a button to 'Upload or remove an image'.

This is a page for editing a listing. All the fields are asked from the user, and the fields are to be updated using a PUT HTTP request.

Edited product listed:








Dashboard | My Transactions | **My Products** | Customers | Analytics

Search products...

Filter Export Add Product

**Products**

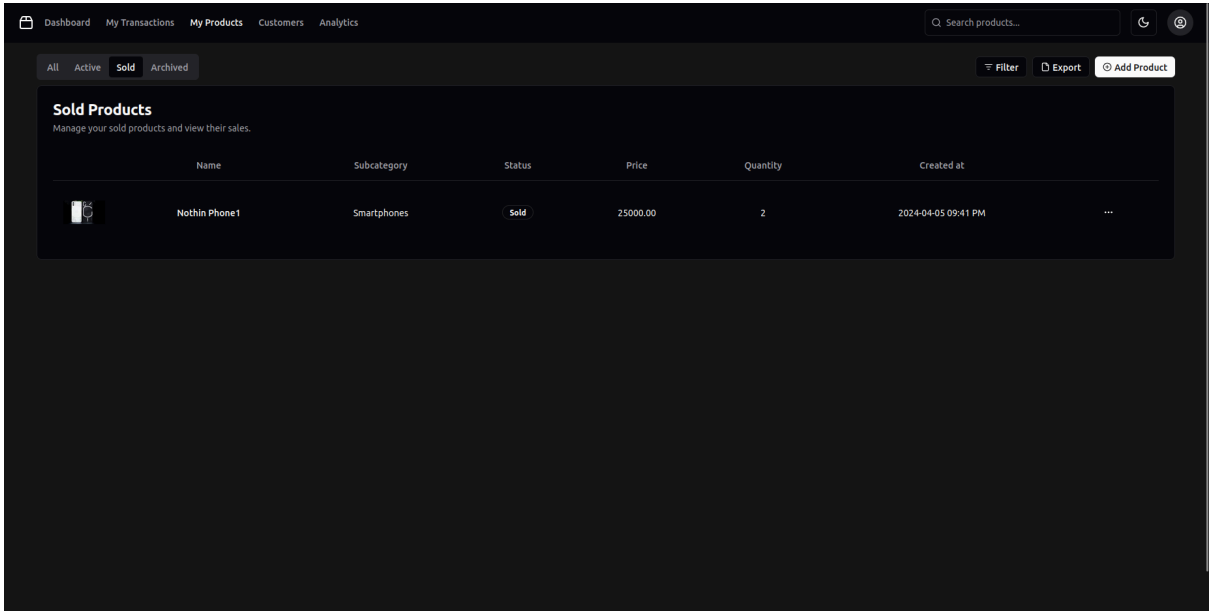
Manage your products and view their sales.

Name	Subcategory	Status	Price	Quantity	Created at
 Nothing Phone1	Smartphones	Available	25000.00	2	2024-04-05 10:29 PM
 Macbook M1	Smartphones	Available	954.00	4	2024-04-05 10:26 PM
 Iphone 15	Laptops	Available	634.00	2	2024-04-05 10:26 PM
 Ipad Air	Tablets	Available	12.00	1	2024-04-05 10:26 PM
 Boat Headphones	Headphones	Available	364.00	3	2024-04-05 10:26 PM

Showing 1-6 of 11 products

In the previous UPDATE operation, the user changed the price field from 33500 to 25000. As is visible from the user products page, the operation has been reflected in the user products page and, hence has been reflected in the underlying database, too.

Product status changed to sold:




Dashboard | My Transactions | **My Products** | Customers | Analytics

Search products...

Filter Export Add Product

**Sold Products**

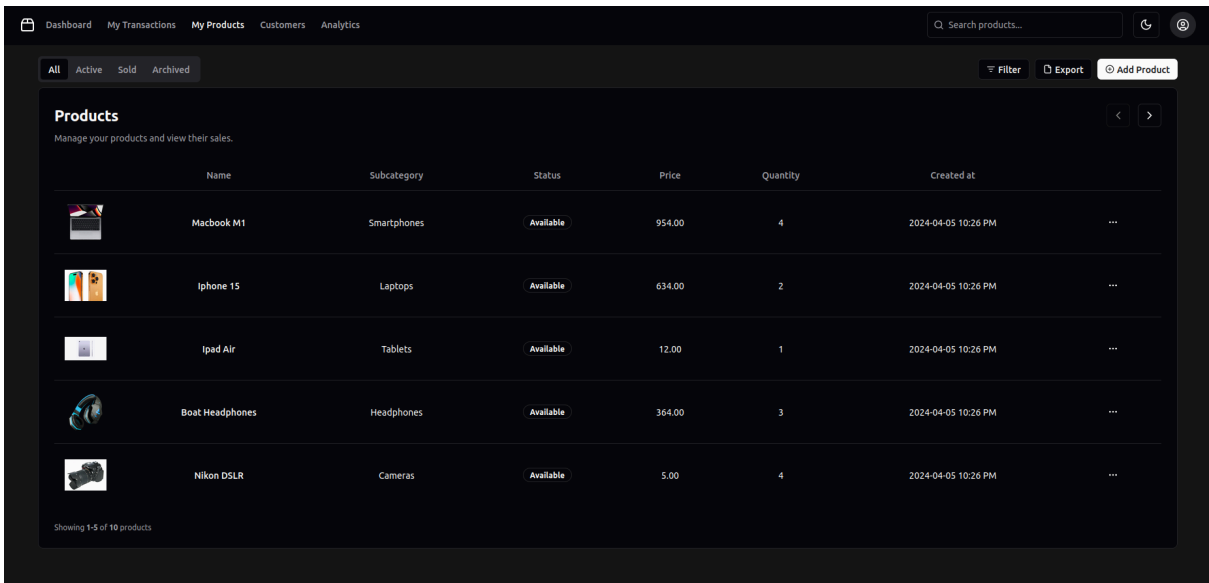
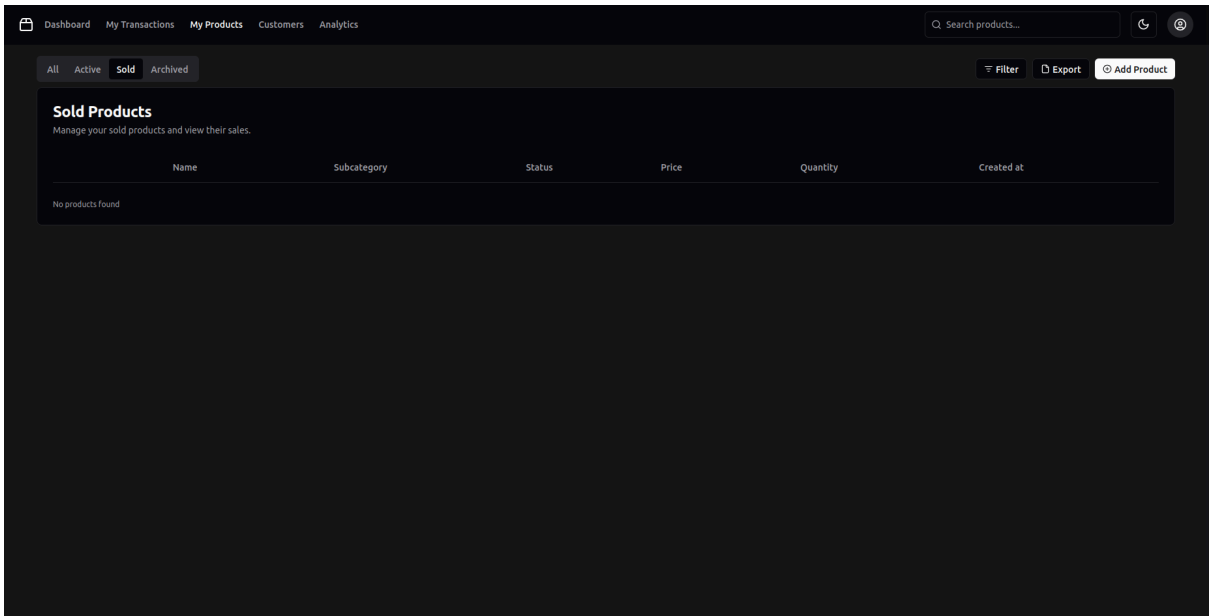
Manage your sold products and view their sales.

Name	Subcategory	Status	Price	Quantity	Created at
 Nothin Phone1	Smartphones	Sold	25000.00	2	2024-04-05 09:41 PM

Another change in the product entries has also been illustrated here. Here, the status was changed to sold



Product deleted:



Constraint check:

**Edit Product**

DiscardSave Product

### Product Details

Title

Description

#glyph #nothing  
Nothing by Nothing

Listed Price

Quantity

Please enter a number.

### Product Category

Category


Subcategory


### Product Status

Status

### Product Images

Upload or remove an image





This is a constraint check where you can only enter numeric values in the listed price, not string values.

Edit Product

DiscardSave Product

### Product Details

Title

Nothing Phone 1

Description

#glyph #nothing  
Nothing by Nothing

Listed Price

12

Quantity

0

Please select a value that is no less than 1.

### Product Category

Category

Electronics

Subcategory

Smartphones


### Product Status

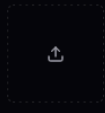
Status

Available

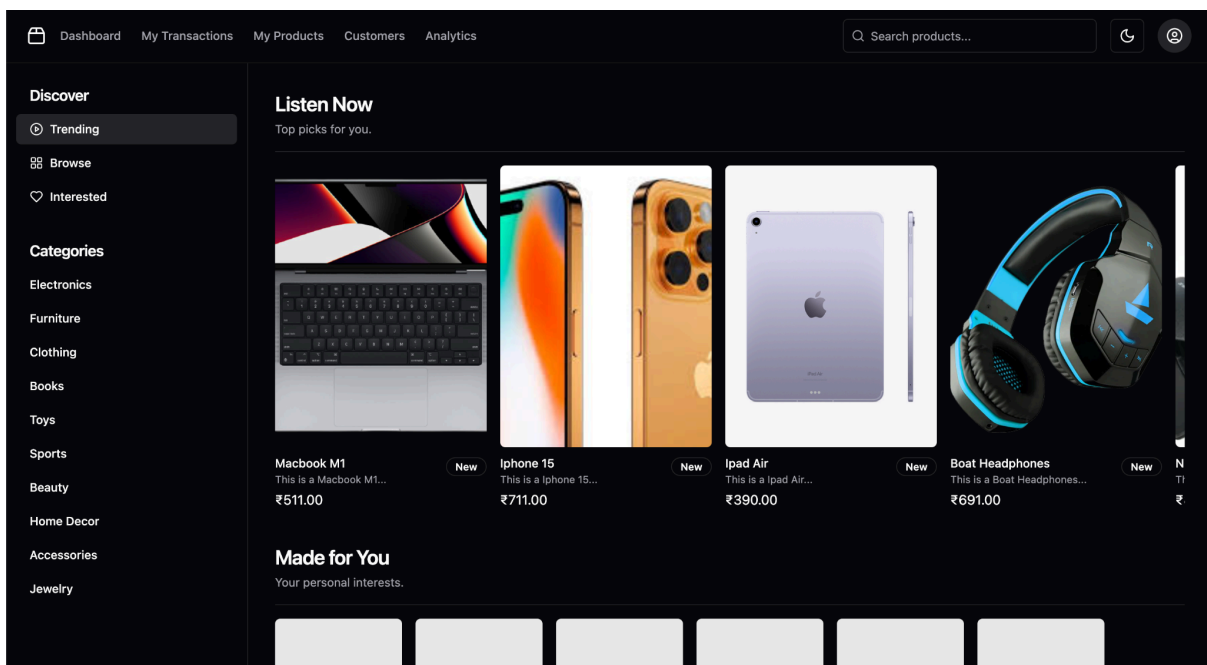
### Product Images

Upload or remove an image





This constraint check shows that while editing listed products for quantity, the minimum quantity should be greater than or equal to 1.



The screenshot displays a user interface for a buyer's perspective. At the top, there is a navigation bar with links to Dashboard, My Transactions, My Products, Customers, and Analytics, along with a search bar and user profile icons. The main content area is divided into two sections. The left section, titled 'Discover', contains a sidebar with 'Trending', 'Browse', and 'Interested' options, and a 'Categories' list including Electronics, Furniture, Clothing, Books, Toys, Sports, Beauty, Home Decor, Accessories, and Jewelry. The right section, titled 'Listen Now', features 'Top picks for you.' and a grid of product listings. Each listing includes an image, the product name, a 'New' badge, and the price in Indian Rupees (₹). The products shown are Macbook M1 (₹511.00), Iphone 15 (₹711.00), Ipad Air (₹390.00), and Boat Headphones (₹691.00). Below this, there is a 'Made for You' section with the text 'Your personal interests.' and a row of six placeholder images.

This is a page from the buyer's perspective. As is visible, the user is displayed the currently listed products, along with their respective images and prices. The links are clickable, after which the user is taken to another product page, this time from the buyer's perspective.

DashboardMy TransactionsMy ProductsCustomersAnalytics

Q Search products...

🔄👤


Product Details

♥ Interested

Title

iphone 15

Product Images



Product Description

Description

This is a Iphone 15

Listed Price

711.00

Quantity

3

Product Status

Status

Available

The product page from the buyer's perspective. The buyer is displayed only the relevant information and is exposed only to the relevant actions - like marking the product as interested.

DashboardMy TransactionsMy ProductsCustomersAnalytics

Q Search products...

🔄👤

Settings

Manage your account settings and set e-mail preferences.

Profile

Account

Appearance

Notifications

Profile

This is how others will see you on the site.

Name

John Doe

This is your public display name.

Email

a@b.c

Phone No.

1234567890

Gender

Select gender

Residence

1234567890

Dashboard

My Transactions

My Products

Customers

Analytics

Q

Search products...

Settings

Manage your account settings and set e-mail preferences.

Profile

Account

Appearance

Notifications

Profile

This is how others will see you on the site.

Name

John Doe

This is your public display name.

Email

a@b.c

Phone No.

1234567890

Gender

Select gender

Residence

The above 2 screenshots illustrate the option that has been provided to the user in terms of switching the application theme from dark to light. This functionality is available for all the pages and can be adjusted by default in accordance with the user's perspective.

## Contributions

Name	Group	Responsibilities & Contributions
Manas Kawal	G1	<ul style="list-style-type: none"><li>Helped in coming up with the right designs for frontend with the right set of routes to handle all the user interactions.</li><li>Handled some tailwind classes.</li></ul>
Naman Dharmani	G1	<ul style="list-style-type: none"><li>Designed the complete frontend dashboard and all the routes</li><li>Built the final frontend application completely using React.js library and handled all the connection and user interaction to the backend routes</li></ul>
Parth Deshpande	G2	<ul style="list-style-type: none"><li>Connected the local instance of MySQL with the backend.</li><li>Added the information to the database and made sure the data is accurate.</li><li>Helped in documentation.</li></ul>
Rachit Verma	G2	<ul style="list-style-type: none"><li>Worked on the transaction, chat, category related routes. Handled all the methods in the specific routes.</li><li>Initialized the models in the model.py file</li><li>Helped in documentation.</li></ul>
Sahil Das	G2	<ul style="list-style-type: none"><li>Worked on product-related routes. Handled the GET, POST, PULL, and DELETE methods.</li><li>Implemented the pagination using SQLAlchemy to retrieve the desired amount of products.</li><li>Helped in debugging backend errors.</li></ul>
Tirth Patel	G2	<ul style="list-style-type: none"><li>Worked on backend. Handles some user routes. Worked on seeding.</li><li>Tested APIs. Did project setup.</li><li>Helped with making necessary changes in models classes. Helped with on cascade delete.</li></ul>
Yash Bothra	G1	<ul style="list-style-type: none"><li>Helped in coming up with the right designs for frontend with the right set of routes to handle all the user interactions.</li><li>Handled some tailwind classes.</li></ul>