



**University of Vavuniya, Sri Lanka**

# **TechHeaven Online Electronic Item Ordering System (E-Commerce Web)**

Software Requirement Specification

Software Engineering – TICT3153

2024

**2019ICTS54**

Submitted by:

**D D K I Udayanga**

Submitted to:

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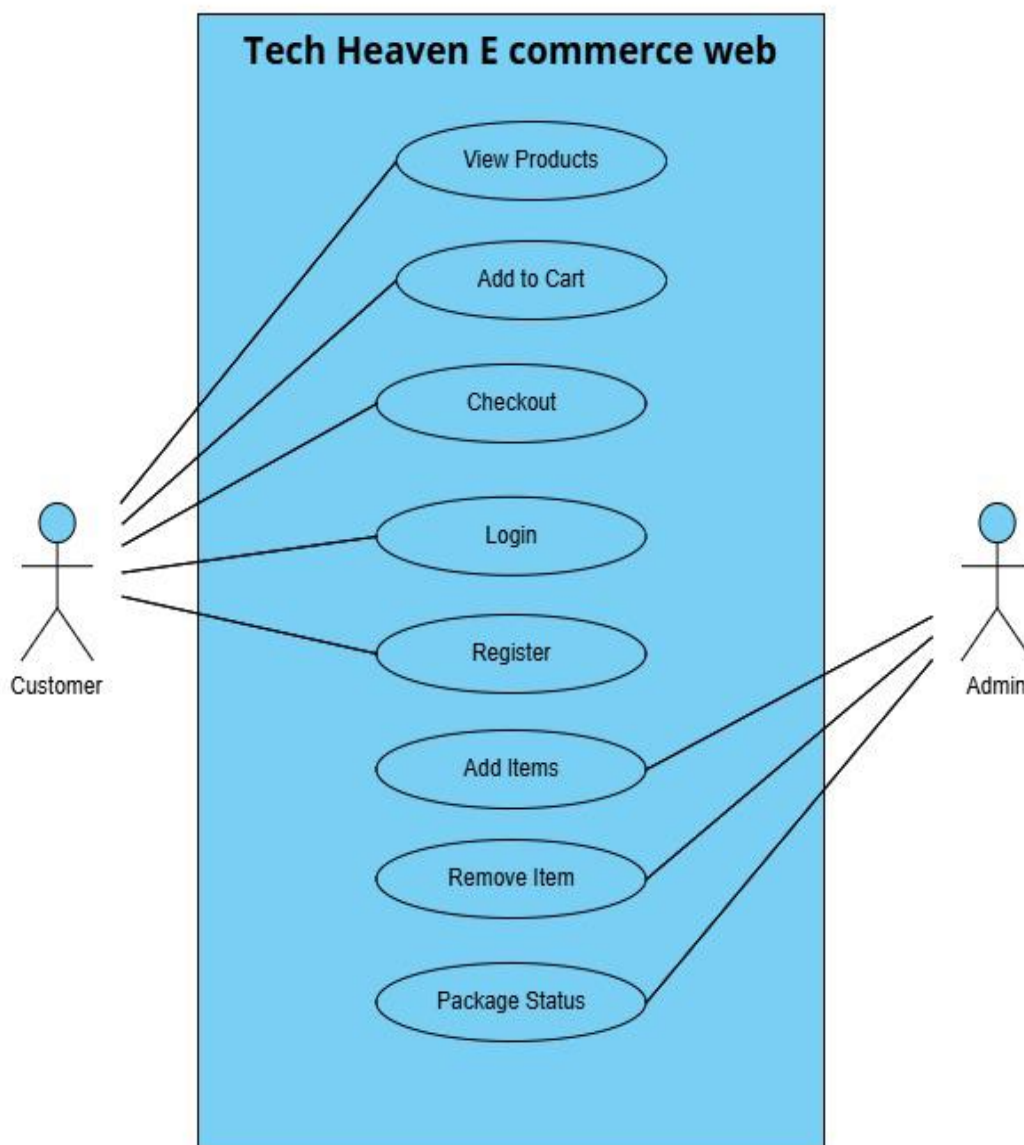
**Date of submission: 11-06-2024**

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## 1. Use Case Diagram

The use case diagram for TechHeaven Web visually represents the interactions between the different types of users and admin (actors) and the functionalities (use cases) of the website. It shows how visitors, registered users, and administrators engage with the system to perform various tasks, from browsing products to managing user accounts and site content. This diagram helps in understanding the system's requirements and the relationships between different user roles and the services provided by TechHeaven Web.



## **2. Use Case Scenario**

### **Customer Use Cases**

#### **1. View Products**

A customer visits the Tech Heaven website to browse through the available products. They navigate through different categories, use the search functionality, and apply filters. Upon selecting a product, they can view detailed descriptions, specifications, images, and customer reviews.

#### **2. Add to Cart**

After finding a product they want to purchase, the customer adds it to their shopping cart. They can continue shopping and add more items to the cart or proceed to view their cart. In the cart, they can modify the quantity of the items, remove unwanted items, and see the total cost including any applicable shipping fees.

#### **3. Checkout**

When ready to purchase, the customer proceeds to checkout. They enter their shipping and billing information

#### **4. Login**

An existing customer logs into their account using their email and password. Once logged in, they can view their order history.

#### **5. Register**

A new customer signs up for an account by providing their name, email address, and creating a password

## **Admin Use Cases**

### **1. Add Items**

An admin logs into the admin panel to add new products to the inventory. They fill in details such as product name, description, price, category and upload product images. Once the information is complete, they save the product to the database, making it available for customers to view and purchase.

### **2. Remove Items**

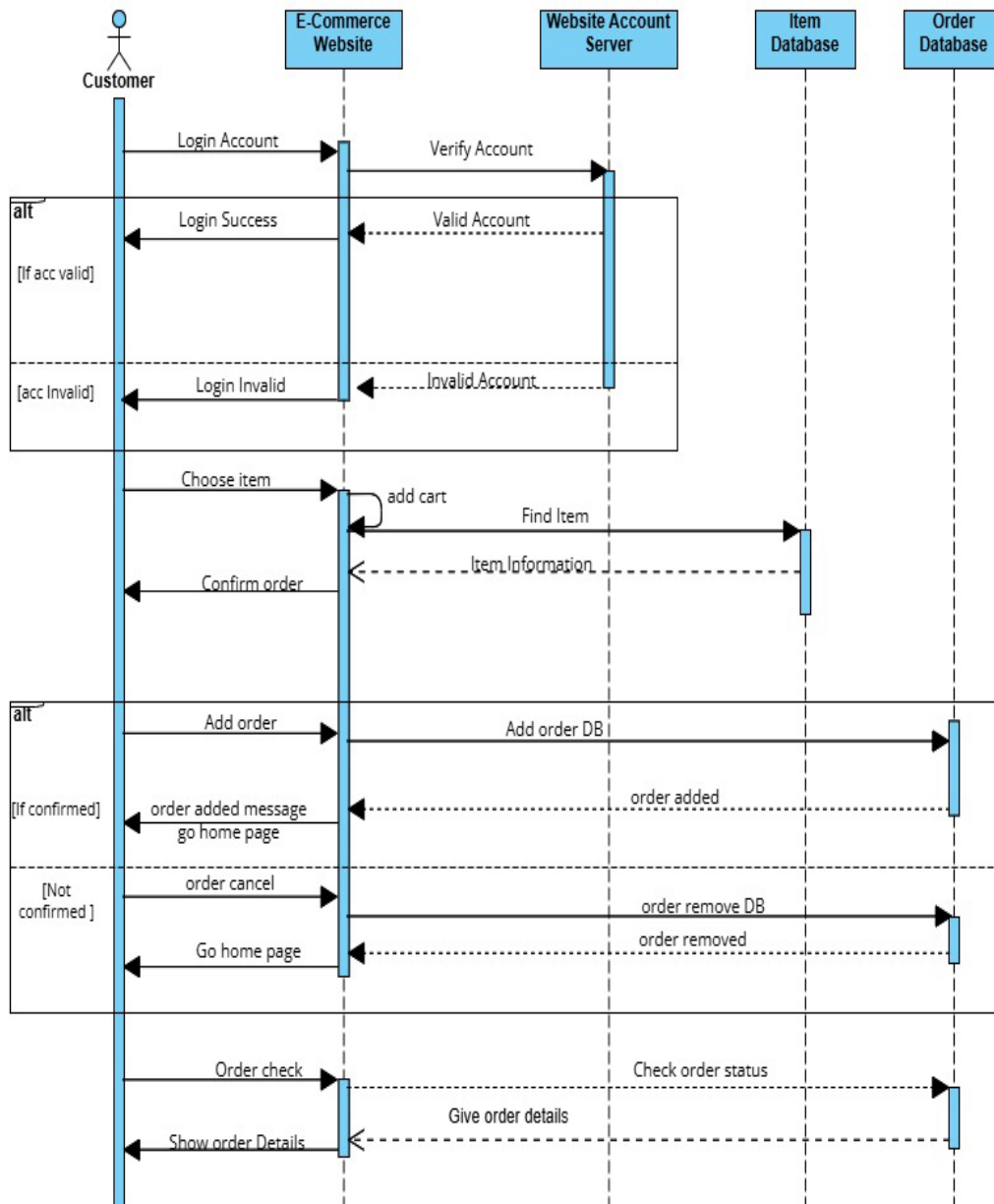
The admin identifies products that need to be removed from the inventory, either because they are out of stock, discontinued, or for other reasons. They access the product list, select the product to be removed, and confirm the deletion. The product is then removed from the customer-facing website.

### **3. Package Status**

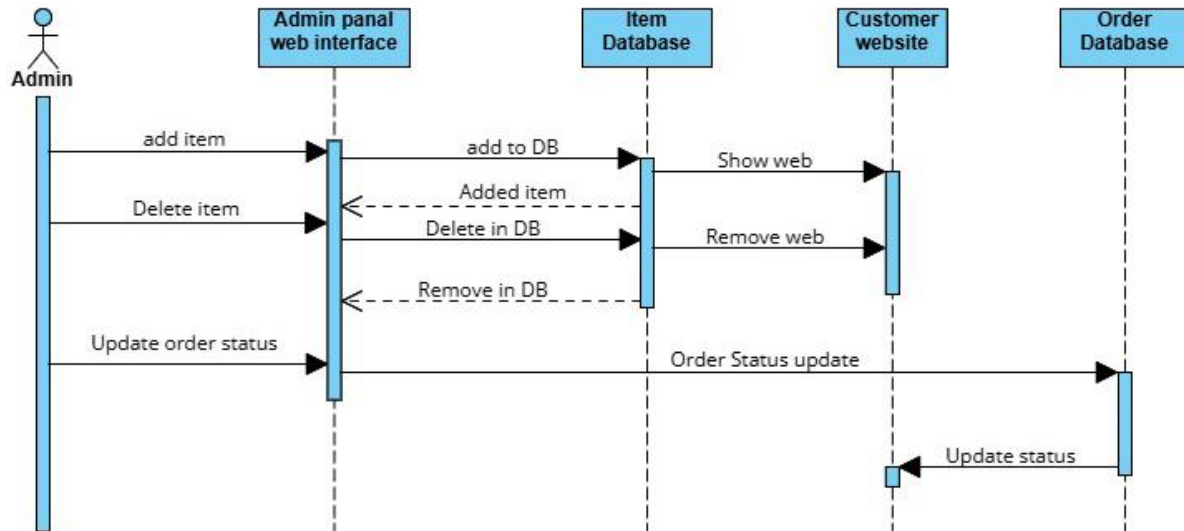
The admin tracks and updates the status of customer orders. They can mark orders as processing, shipped, out for delivery, or delivered.

### 3. Sequence Diagram

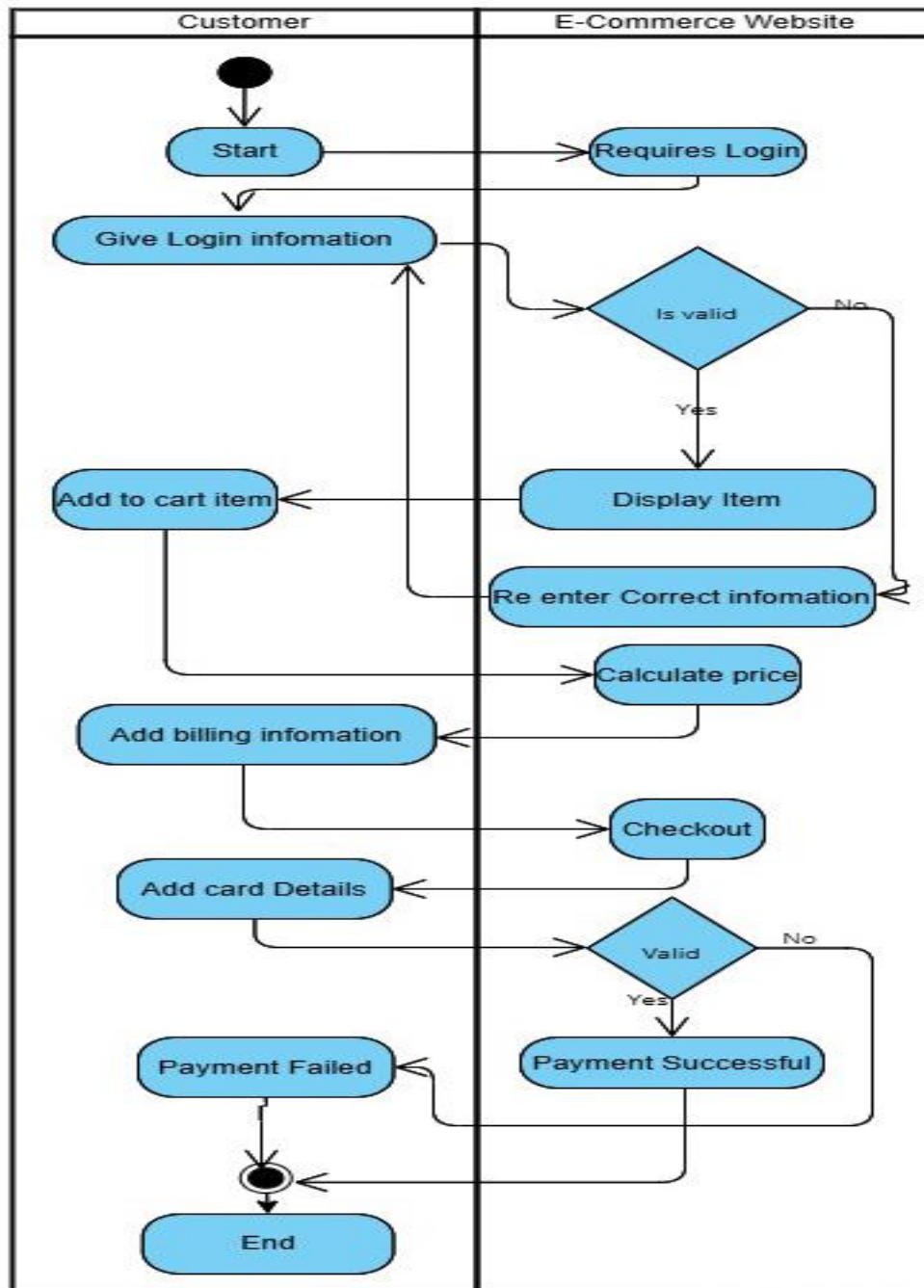
#### Customer Side



## Admin Side

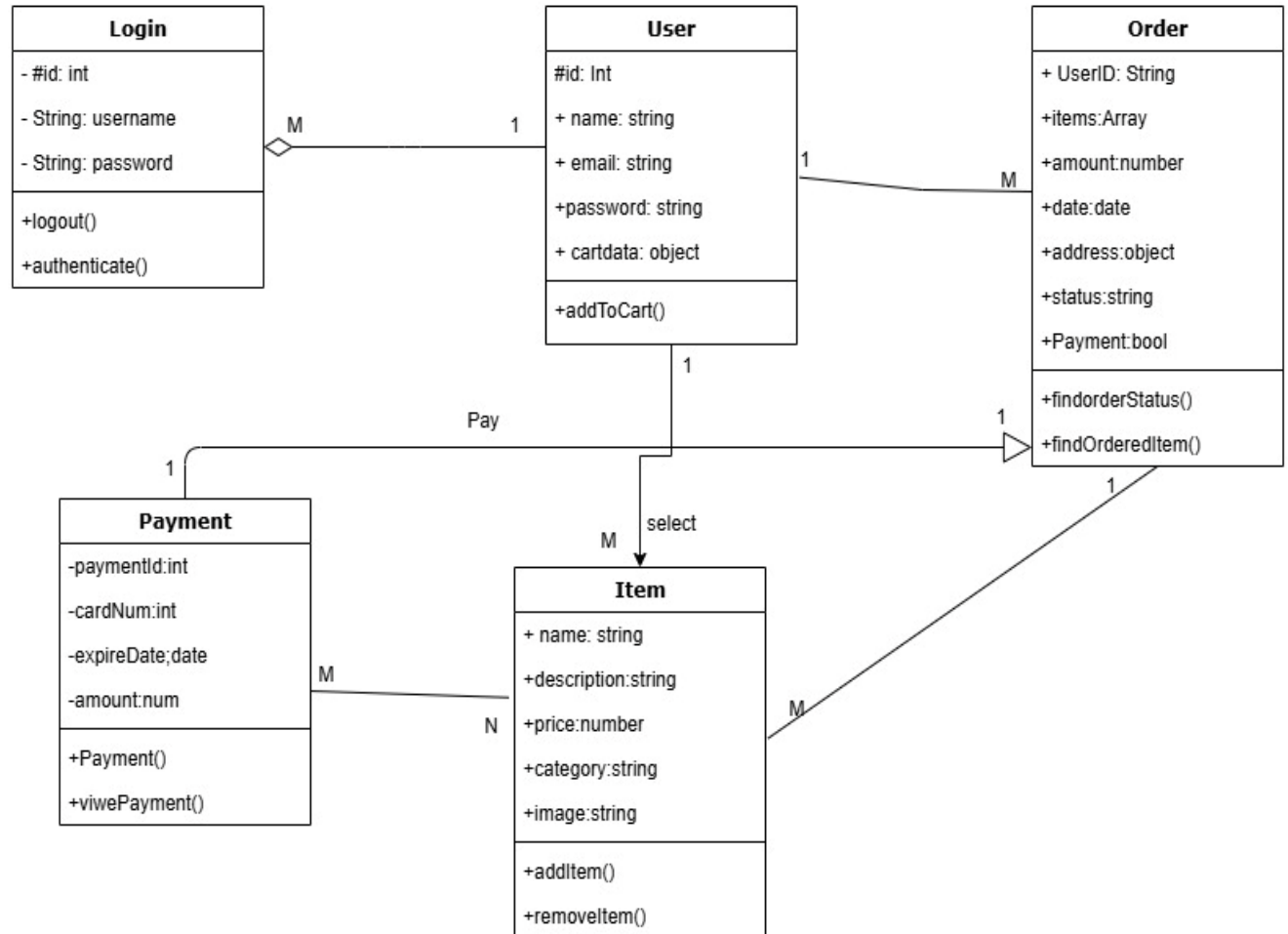


## 4. Activity Diagram

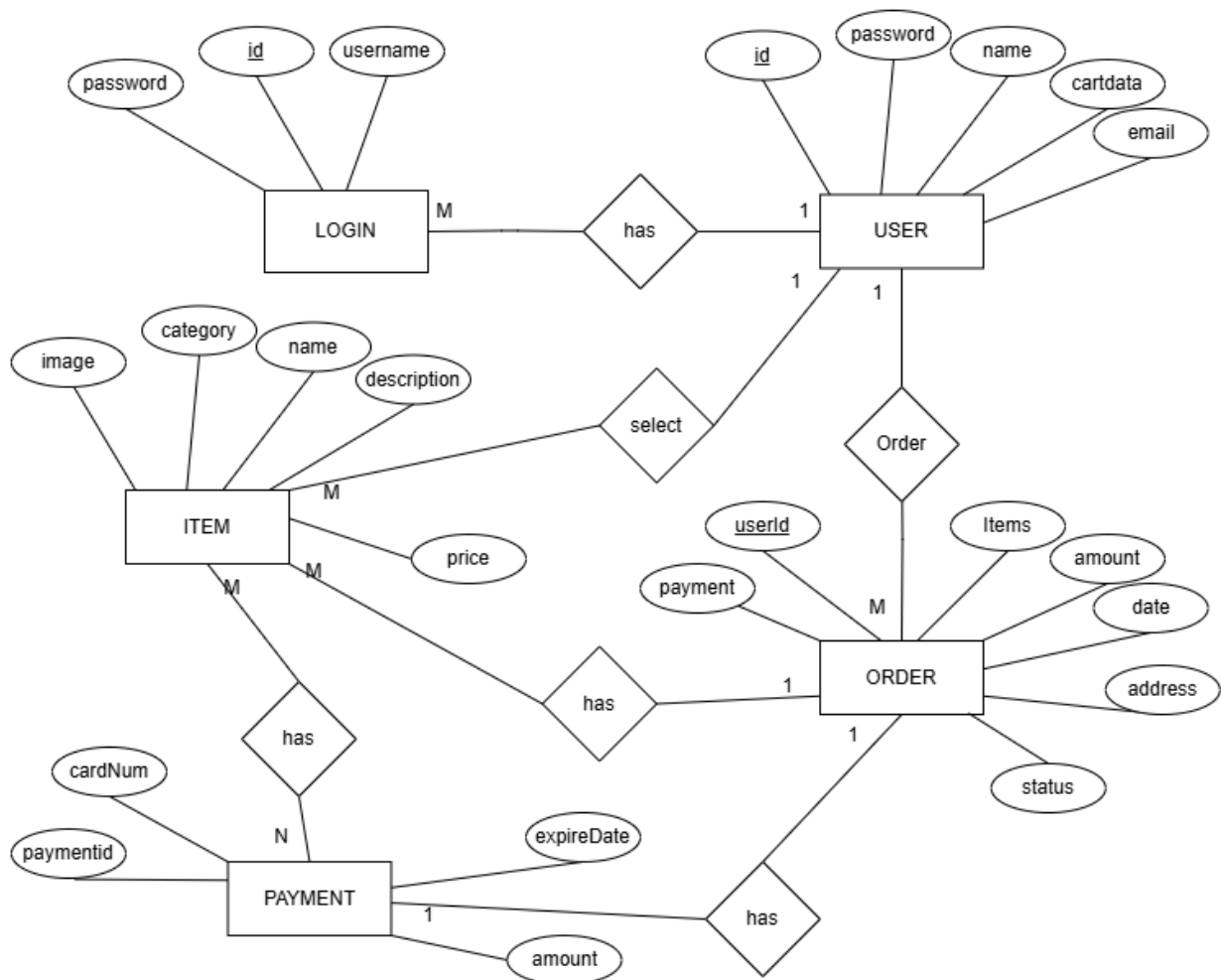




## 5. Class Diagram

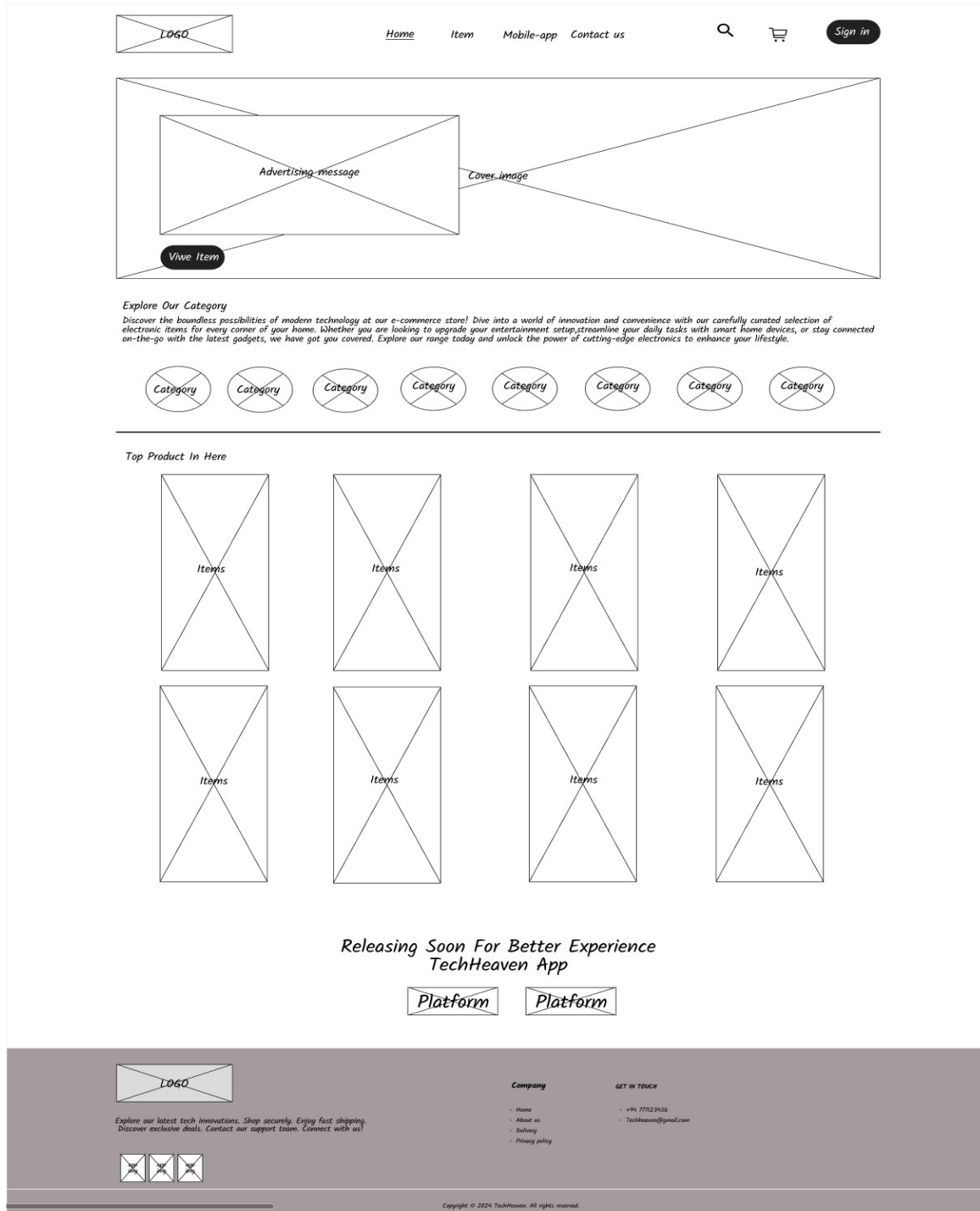


## 6. ER Diagram



## 7. Low Fidelity User Interfaces

### 7.1 Customer Side Desktop Wireframes



#### Home Page

LOGO

Home

Item

Mobile-app

Contact us

Item	Title	Price	Quantity	Total	Remove
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	X

Cart Total

Subtotal

\$0

Delivery Fee

\$0

Total

\$0

PROCEED TO CHECKOUT

If you have promo code,Enter it here

Promocode

Submit

LOGO

Explore our latest tech innovations. Shop securely. Enjoy fast shipping. Discover exclusive deals. Contact our support team. Connect with us!

Company

Home

About us

Delivery

Privacy policy

+94 77712 3456

Techheaven@gmail.com

GET IN TOUCH

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Cart Page

LOGO

Home

Item

Mobile-app

Contact us

Delivery Information

First name

Last name

Email Address

Street

City

State

Zip code

Country

Phone

Cart Total

Subtotal

\$0

Delivery Fee

\$0

Total

\$0

PROCEED TO PAYMENT

LOGO

Explore our latest tech innovations. Shop securely. Enjoy fast shipping. Discover exclusive deals. Contact our support team. Connect with us!

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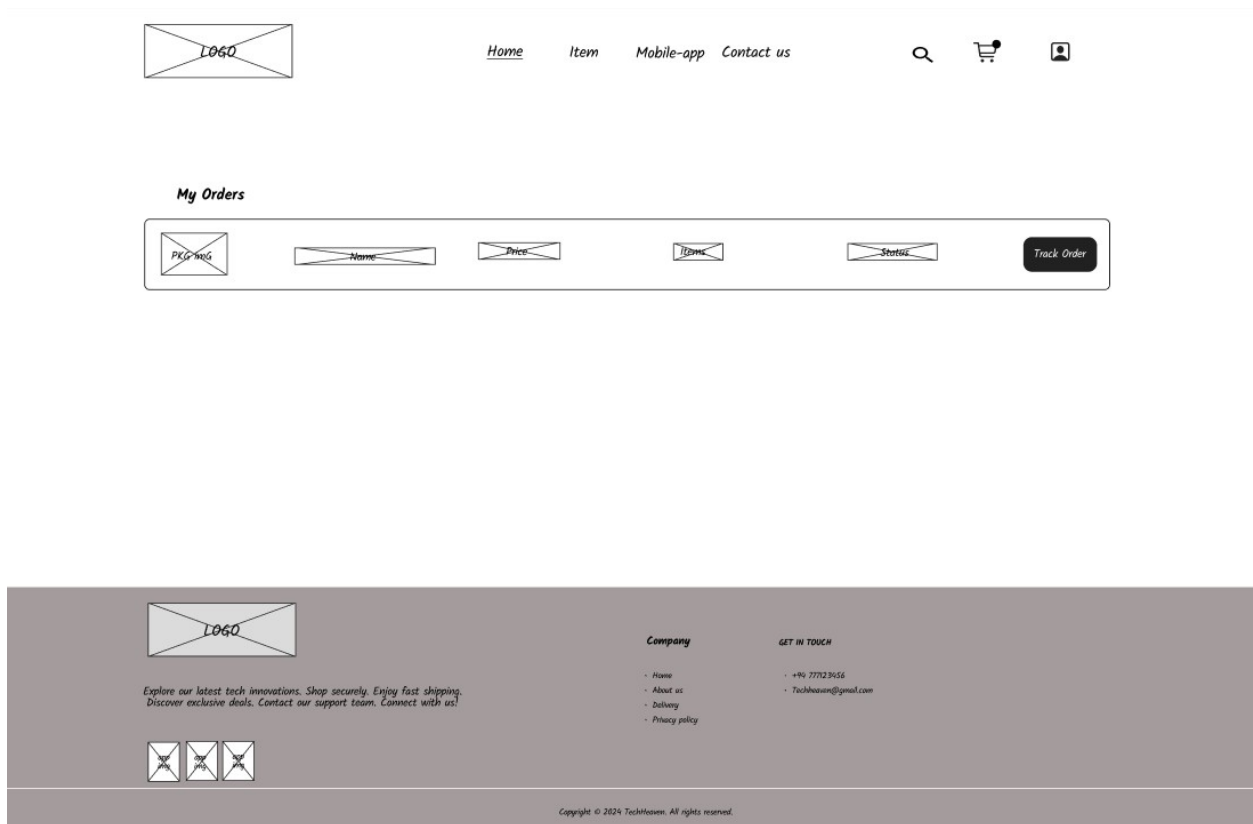
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Order Page

12 | Page



## Tracking Page

### Login

☐ I agree to the terms of use & privacy policy.

[Create new account ? Click here](#)

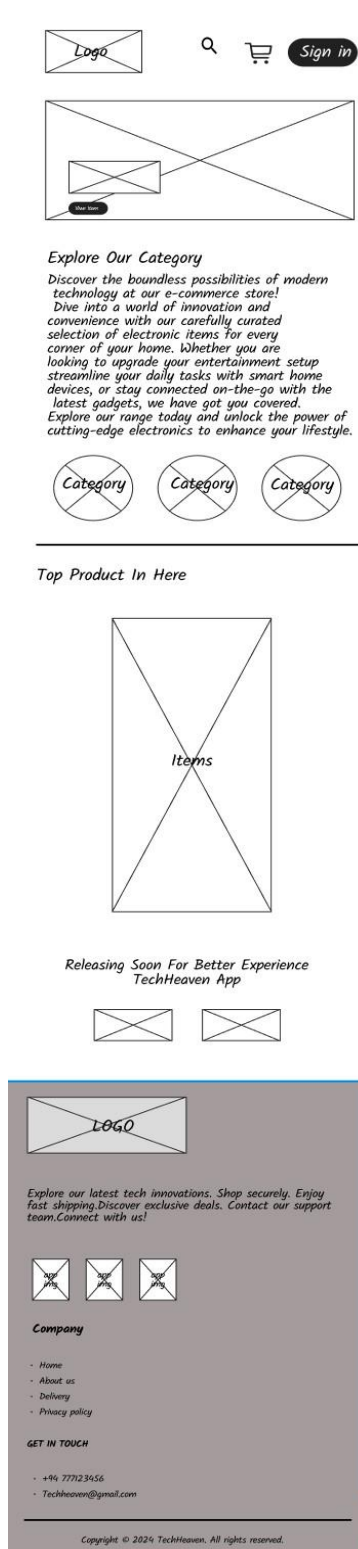
### Sign up

☐ I agree to the terms of use & privacy policy.

[Already have an account? Login here](#)

## Login & Sign up Interface

## 7.2 Customer Side Mobile Wireframes



Home Page

Logo

Item	Price	Quantity	Title	Total	Remove
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div>X</div>

If you have promo code,Enter it here

Promocode

Submit

Cart Total

Subtotal	\$0
Delivery Fee	\$0
Total	\$0

PROCEED TO CHECKOUT

LOGO

Explore our latest tech innovations. Shop securely. Enjoy fast shipping.Discover exclusive deals. Contact our support team.Connect with us!

Company

- Home
- About us
- Delivery
- Privacy policy

GET IN TOUCH

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- Techheaven@gmail.com

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## Cart Page



### Delivery Information

First name	Last name
Email Address	
Street	
City	State
Zip code	Country
Phone	

### Cart Total

Subtotal	\$0
Delivery Fee	\$0
Total	\$0

PROCEED TO PAYMENT



Explore our latest tech innovations. Shop securely. Enjoy fast shipping. Discover exclusive deals. Contact our support team. Connect with us!



### Company

- Home
- About us
- Delivery
- Privacy policy

### GET IN TOUCH

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## Order Page





## My Orders




Explore our latest tech innovations. Shop securely. Enjoy fast shipping. Discover exclusive deals. Contact our support team. Connect with us!



## Company

- Home
- About us
- Delivery
- Privacy policy

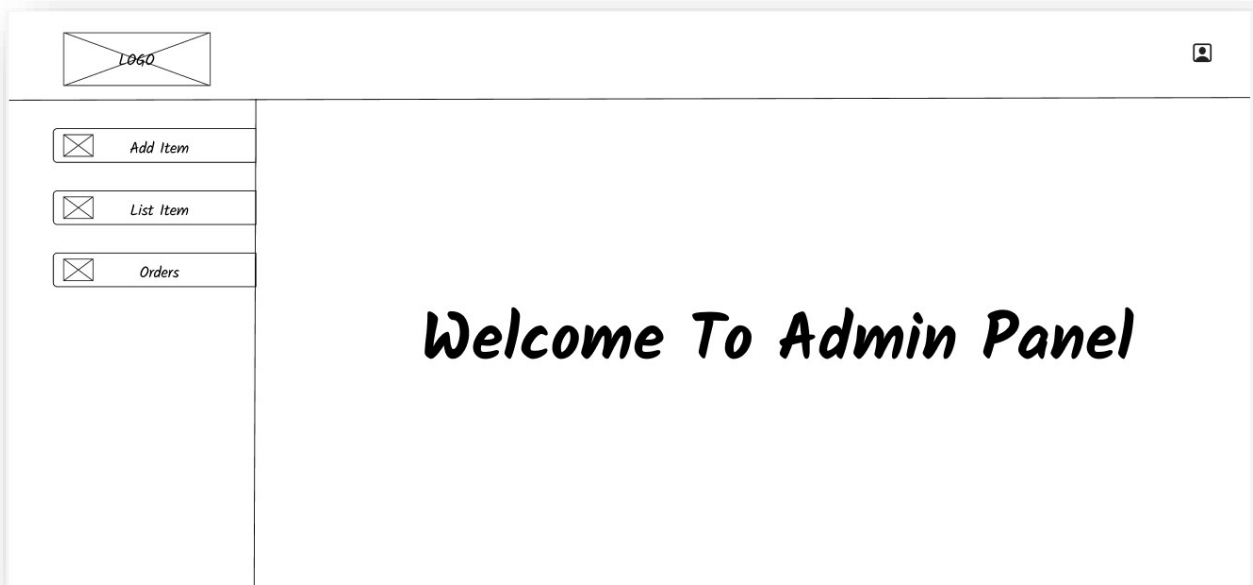
## GET IN TOUCH

- +94 777123456
- Techheaven@gmail.com

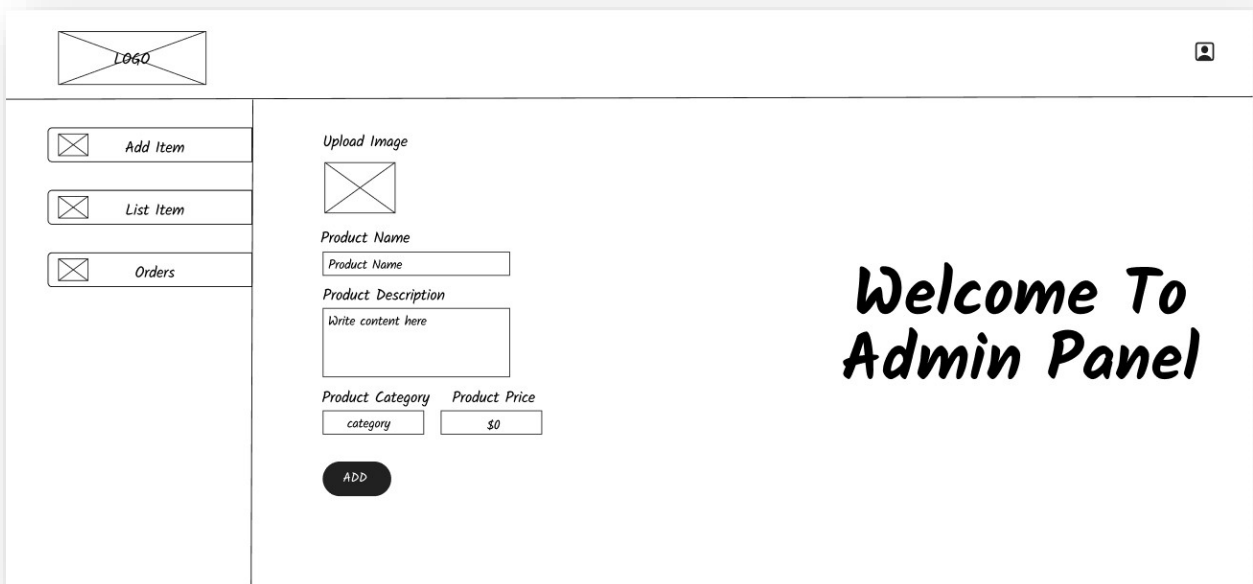
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## Tracking Page

## 7.3 Admin Side Desktop Wireframes



Admin Home Page



Admin Add Page

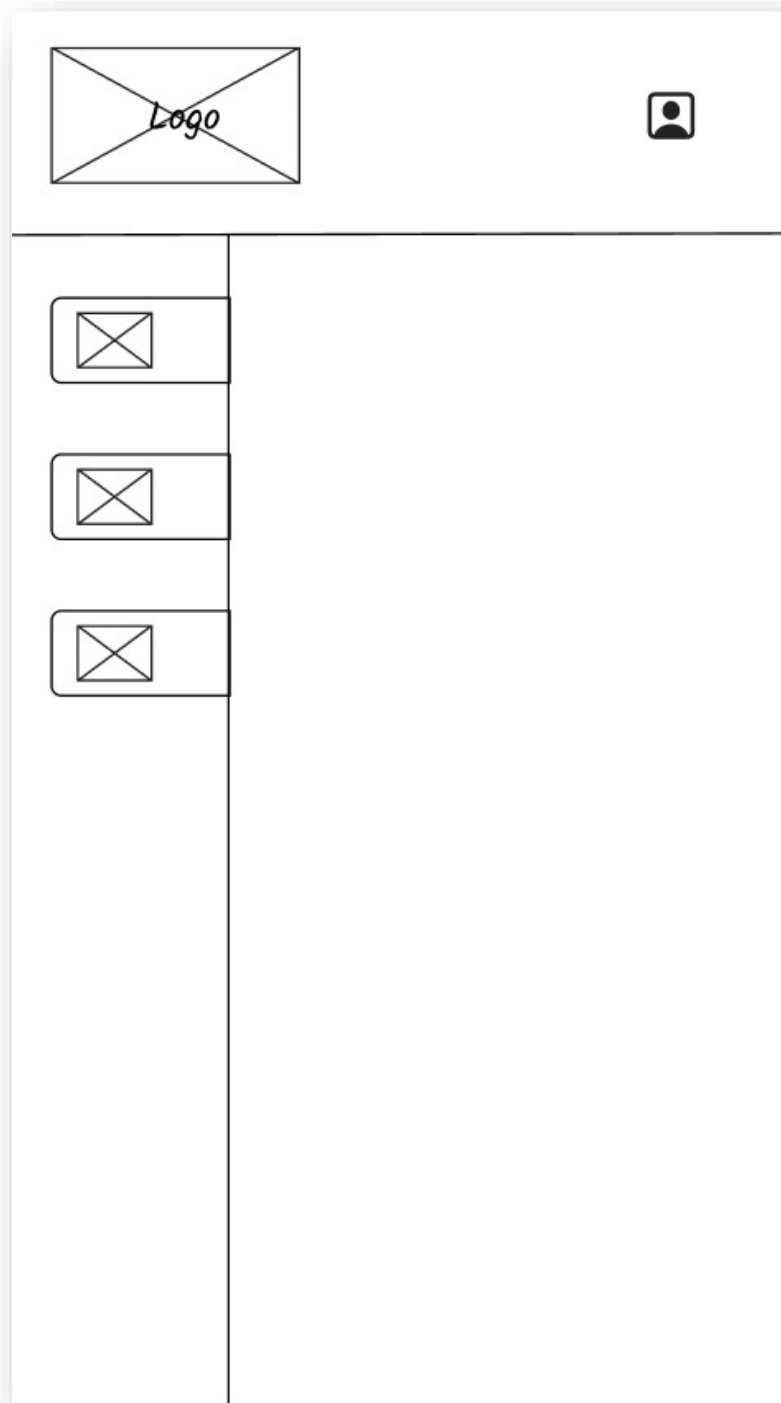


### Admin List Page



### Admin Order Page

## 7.3 Admin Side Mobile Wireframes



**Admin Home Page**

Logo

Upload Image

Product Name

Product Name

Product Description

Write content here

Product Category

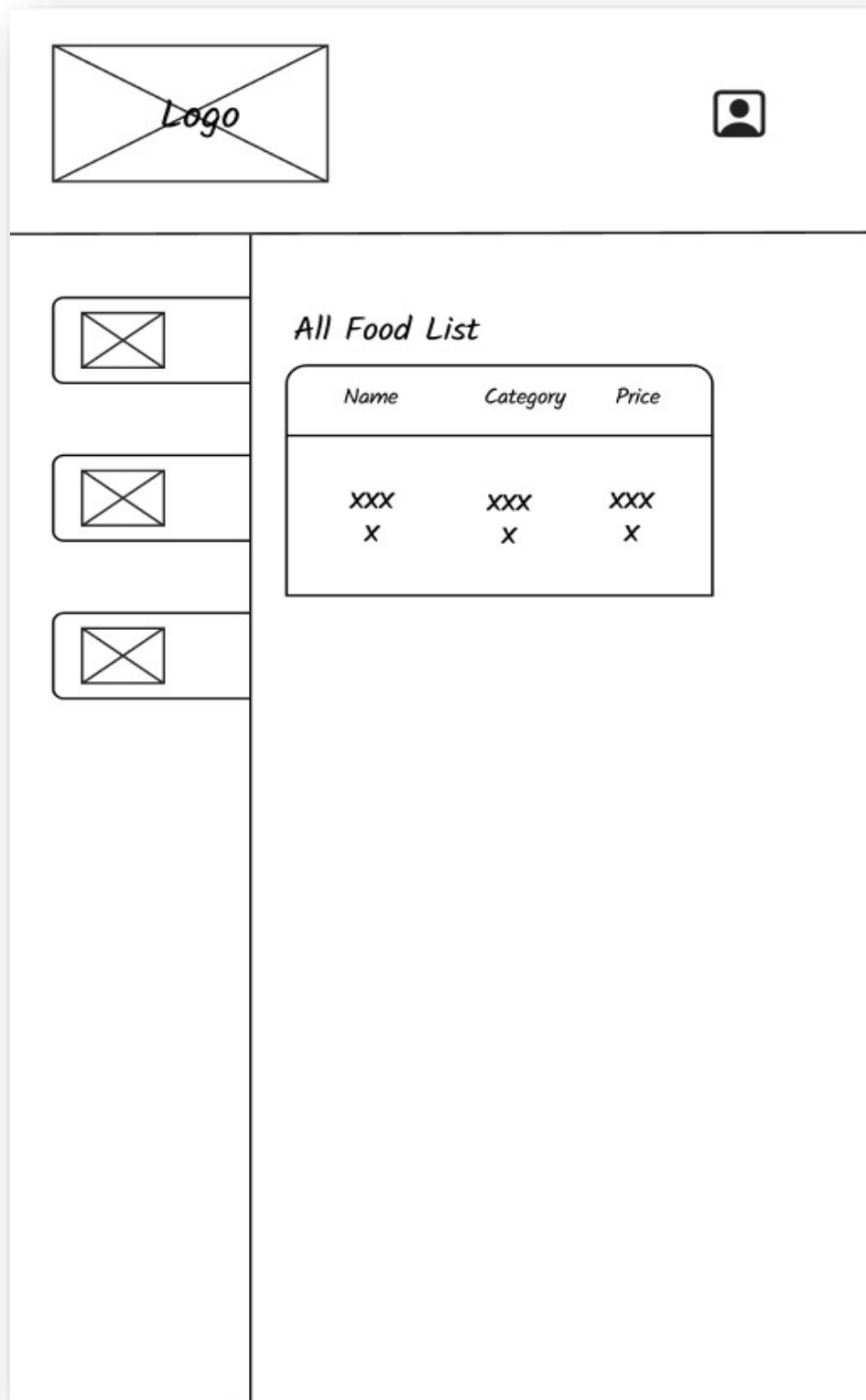
Product Price

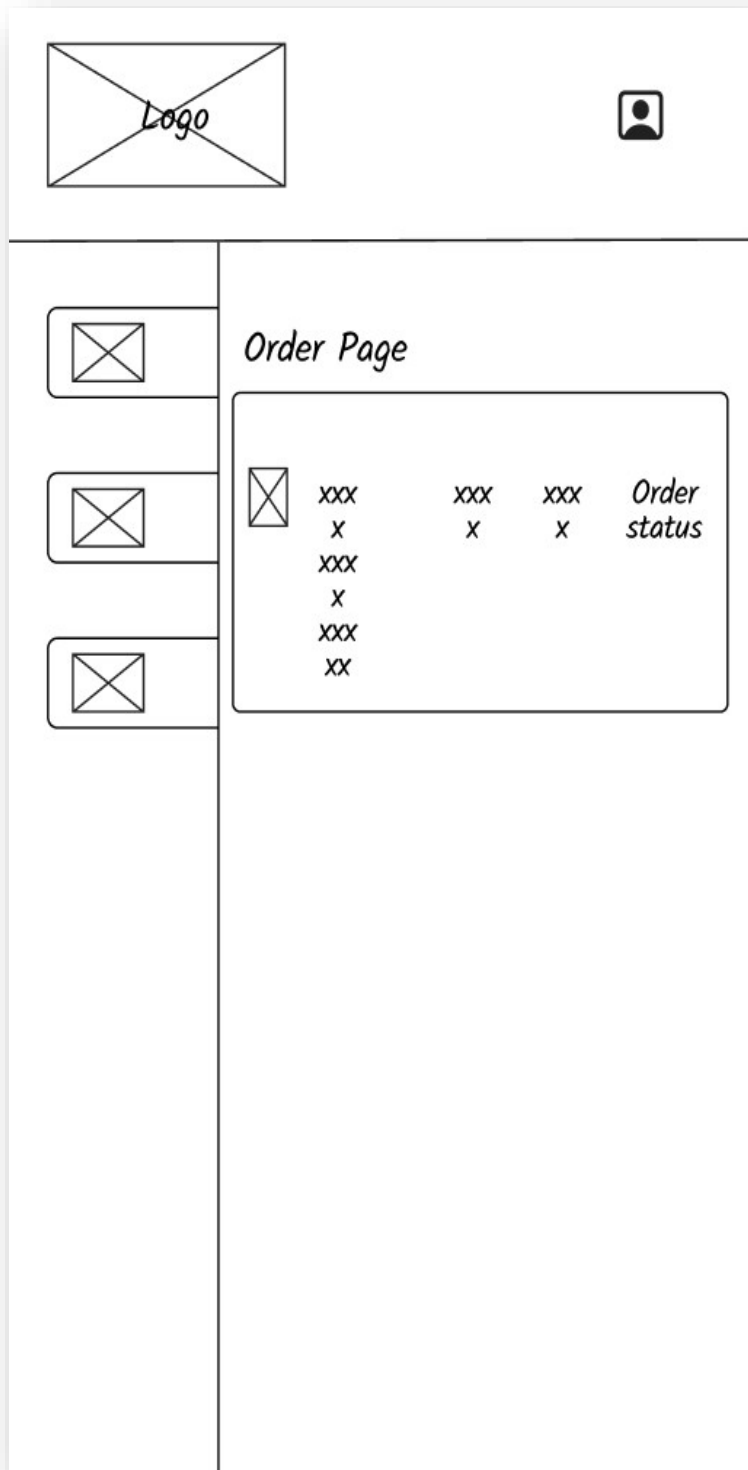
category

\$0

ADD

**Admin Add Page**

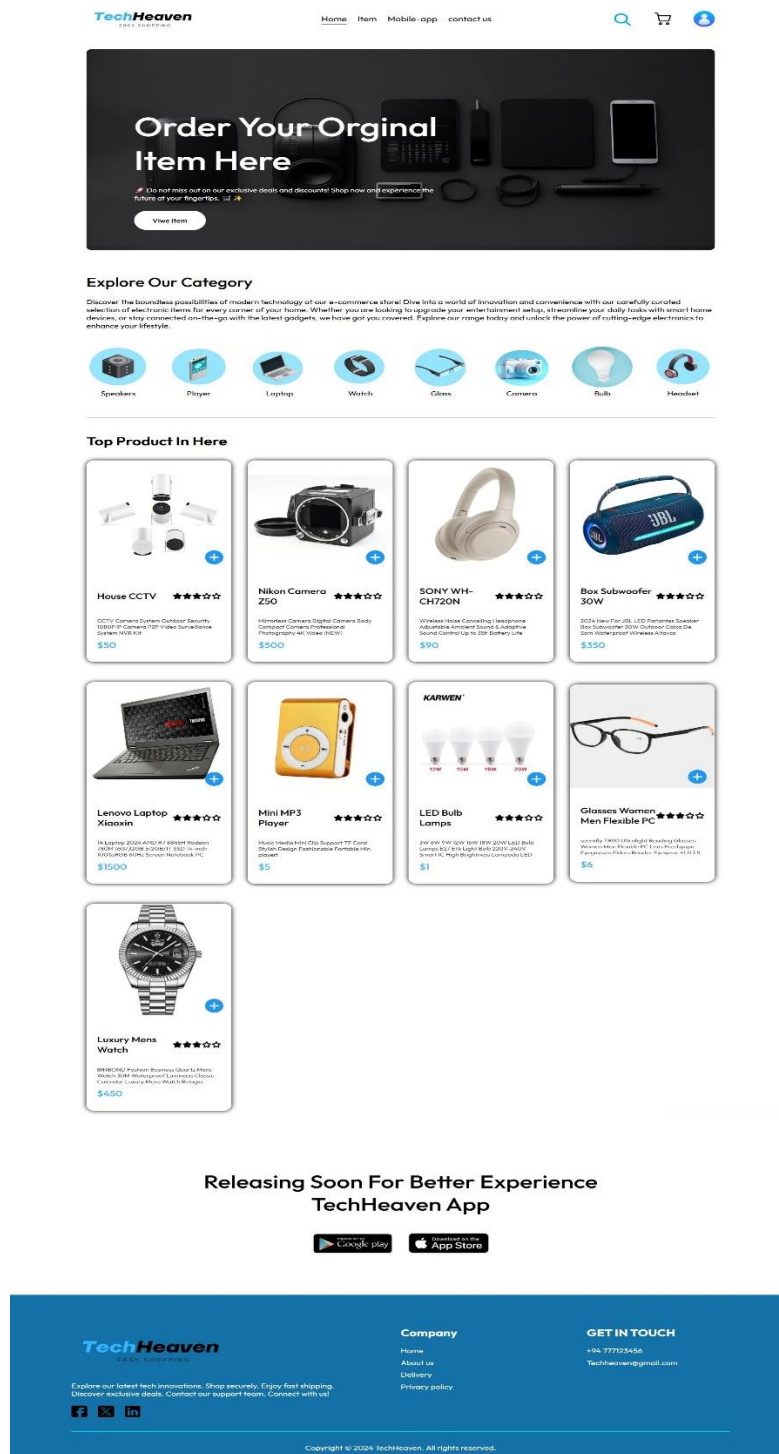




### Admin Orders Page

## 8. High Fidelity User Interfaces

### 8.1 Customer Side Desktop Wireframes





Item	Title	Price	Quantity	Total	Remove
	House CCTV	\$50	1	\$50	x
	Nikon Camera Z50	\$500	1	\$500	x

### Cart Total

Subtotal	\$550
Delivery Fee	\$2
<b>Total</b>	<b>\$552</b>

[PROCEED TO CHECKOUT](#)

If you have promo code,Enter it here

Promocode

Submit

## Cart Page

### Login



Your email



Your password

Login

☐ I agree to the terms of use & privacy policy.

Create new account ? [Click here](#)

### Sign up



Your name

Your email



Your password

Create account

☐ I agree to the terms of use & privacy policy.

Already have an account? [Login here](#)

## Login & Sign up Page



### Delivery Information

<input type="text" value="First name"/>	<input type="text" value="Last name"/>
<input type="text" value="Email address"/>	
<input type="text" value="Street"/>	
<input type="text" value="City"/>	<input type="text" value="State"/>
<input type="text" value="Zip Code"/>	<input type="text" value="Country"/>
<input type="text" value="Phone"/>	

### Cart Total

Subtotal	\$550
Delivery Fee	\$2
<b>Total</b>	<b>\$552</b>

PROCEED TO PAYMENT

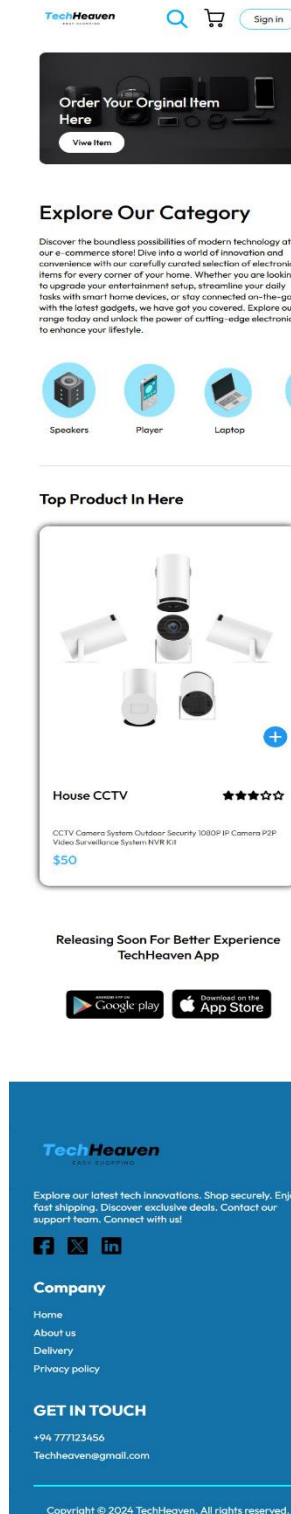


### My Orders


	Nikon Camera Z50 x1	\$502.00	Items: 1	Item Processing	<a href="#">Track Order</a>
	House CCTV x2	\$102.00	Items: 1	Item Processing	<a href="#">Track Order</a>

## Tracking Page

## 8.2 Customer Side Mobile Wireframes



### Home Page

Item	Title	Price	Quantity	Total	Remove
	House CCTV	\$50	2	\$100	x

If you have promo code, Enter it here

### Cart Total

Subtotal	\$100
Delivery Fee	\$2
<b>Total</b>	<b>\$102</b>

[PROCEED TO CHECKOUT](#)

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### Company


[Home](#)  
[About us](#)  
[Delivery](#)  
[Privacy policy](#)

### GET IN TOUCH

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 Techheaven@gmail.com

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## Delivery Information

First name	Last name
Email address 	
Street	
City	State
Zip Code	Country
Phone	

## Cart Total

Subtotal	\$100
Delivery Fee	\$2
<b>Total</b>	<b>\$102</b>

PROCEED TO PAYMENT


## Company

Home  
About us  
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## GET IN TOUCH

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## My Orders

	Nikon Camera Z50 x 1	\$502.00
Items: 1	Item Processing	<a href="#">Track Order</a>

	House CCTV x 2	\$102.00
Items: 1	Out Of Delivery	<a href="#">Track Order</a>

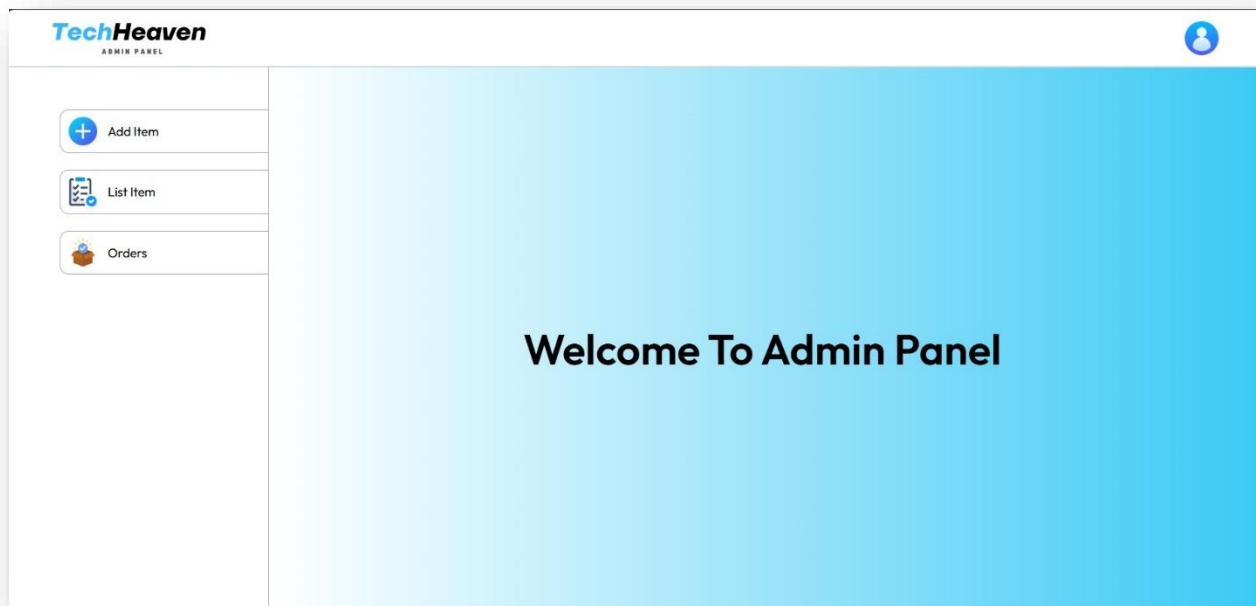
  

	House CCTV x 2	\$102.00
Items: 1	Item Processing	<a href="#">Track Order</a>

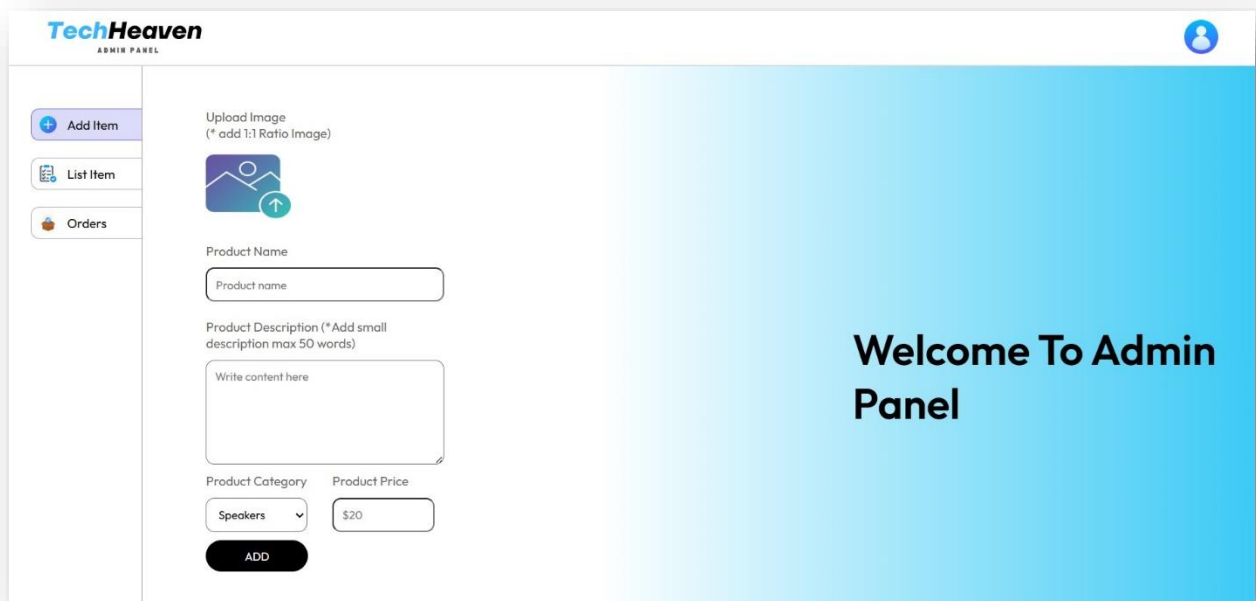
### Company

### GET IN TOUCH

## 8.3 Admin Side Desktop Wireframe

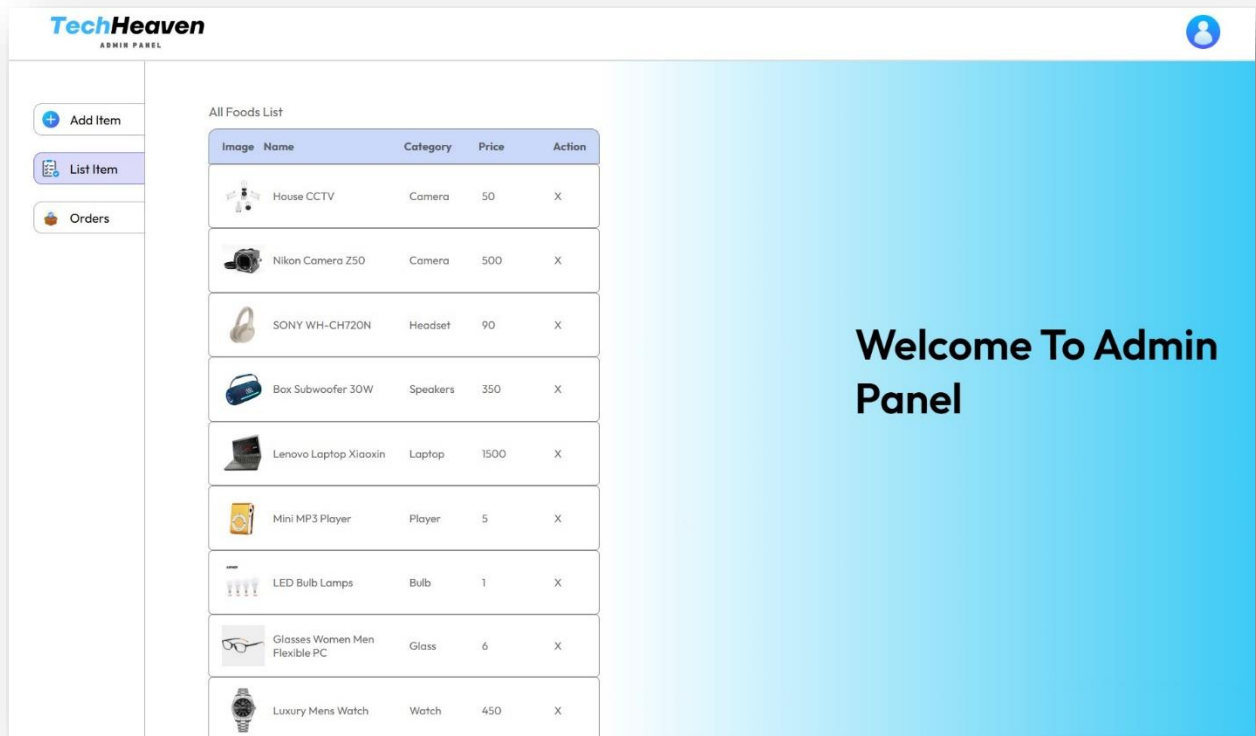


Admin Home Page

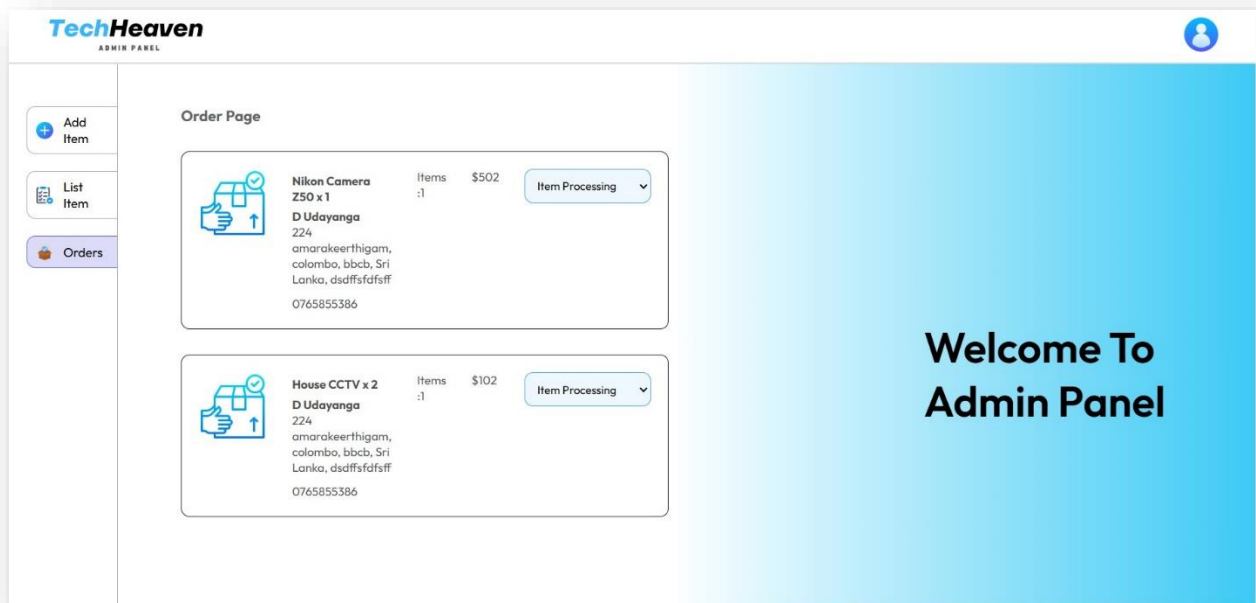


Admin Add Page



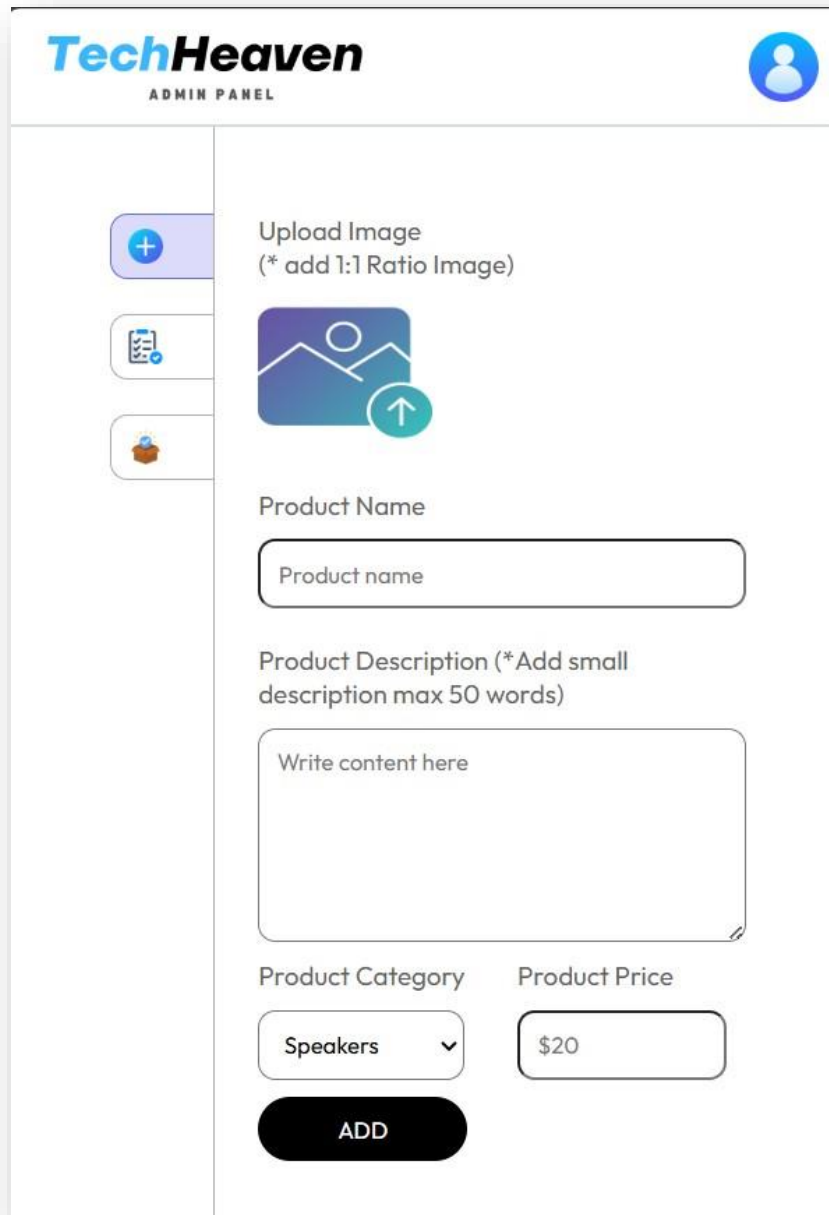


Admin List Page



Admin Orders Page

## 8.3 Admin Side Mobile Wireframe



The wireframe shows a mobile app interface for an admin panel. At the top, the 'TechHeaven' logo is on the left and a user profile icon is on the right. Below the logo, the text 'ADMIN PANEL' is visible. A vertical sidebar on the left contains three icons: a plus sign, a clipboard, and a shopping cart. The main content area has a section titled 'Upload Image' with a note '(\* add 1:1 Ratio Image)'. Below this is a large image placeholder with an upload arrow. Further down are input fields for 'Product Name', 'Product Description' (with a note '(\*Add small description max 50 words)'), 'Product Category' (a dropdown menu currently showing 'Speakers'), and 'Product Price' (a text field with '\$20'). At the bottom is a black 'ADD' button.

**TechHeaven**  
ADMIN PANEL

+

Upload Image  
(\* add 1:1 Ratio Image)

Product Name

Product name

Product Description (\*Add small description max 50 words)

Write content here

Product Category

Speakers

Product Price

\$20


ADD

Admin Add Page



ADMIN PANEL




All Foods List

Image	Name	Category
Price	Action	
House CCTV	Camera	50
X		
Nikon Camera Z50	Camera	500
X		
SONY WH-CH720N	Headset	90
X		
Box Subwoofer 30W	Speakers	350
X		
Lenovo Laptop Xiaoxin	Laptop	1500
X		
Mini MP3 Player	Player	5
X		
LED Bulb Lamps	Bulb	1
X		
Glasses Women Men Flexible PC	Glass	6
X		
Luxury Mens Watch	Watch	450
X		



## Order Page



**Nikon Camera Z50 x 1**

**D Udayanga**

224

amarakeerthigam,  
colombo, bbcb, Sri  
Lanka, dsdffsdfsff

0765855386

\$502

Item Processing



**House CCTV x 2**

**D Udayanga**

224

amarakeerthigam,  
colombo, bbcb, Sri  
Lanka, dsdffsdfsff

0765855386

\$102

Out Of Delivery

### Admin Orders Page