

GRADUATION PROJECT

# HARD WHERE

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Supervised by Dr. Muhannad Al-Jabi

# OUTLINE

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PART 1

**Problem**

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PART 2

**Solution**

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PART 3

**Technologies**

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PART 4

**Features**

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PART 5

**Conclusion**

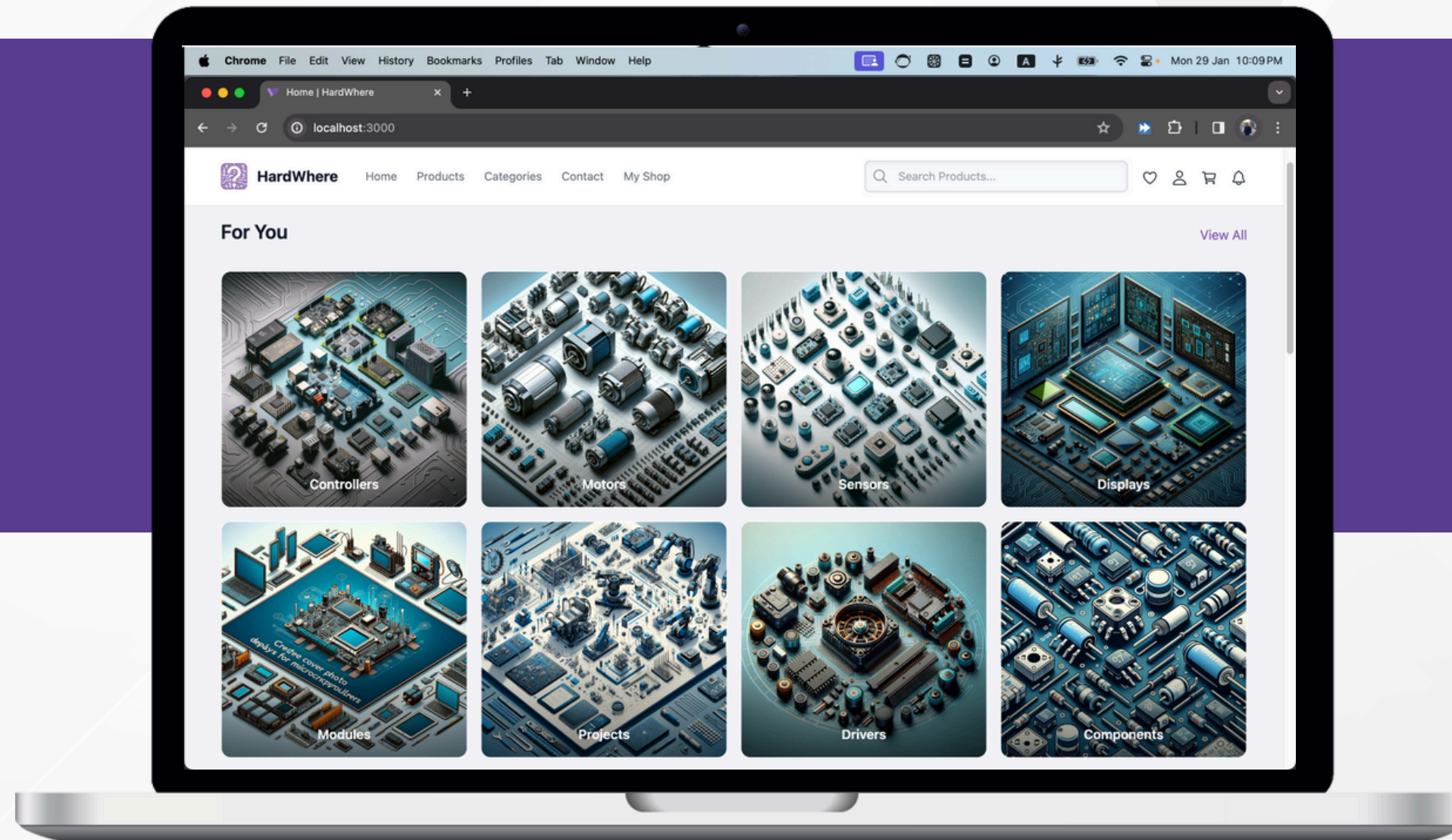
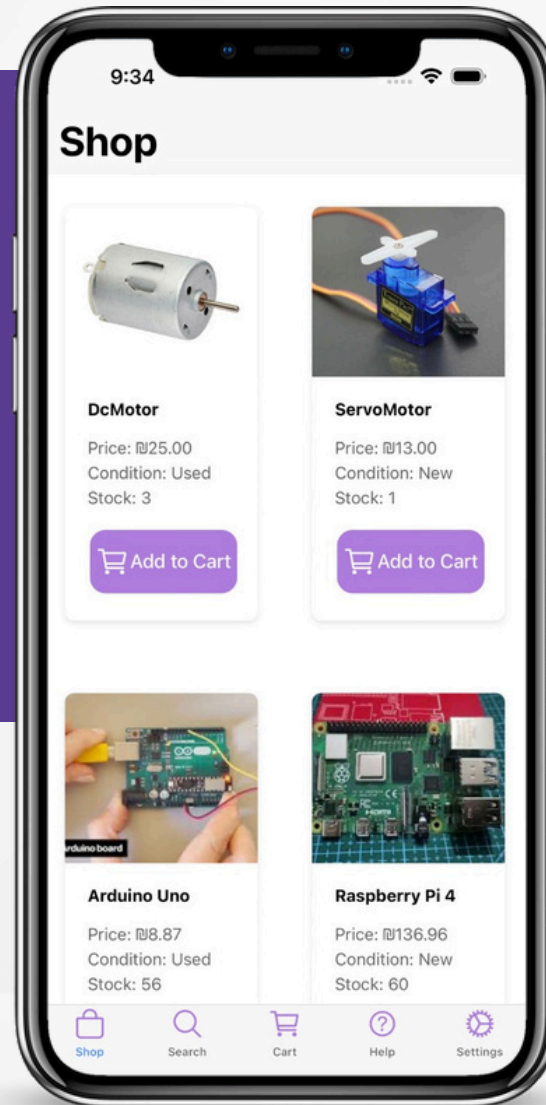
# COURSES' PROJECTS

SPECIALLY HARDWERE GP

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# HARD WHERE



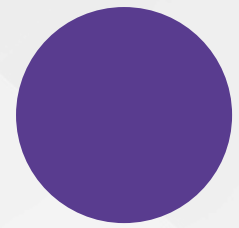
# Effects



Reducing Electronic  
Waste



Enhancing Educational  
Resources



**IONIC VUE**

MOBILE



**TYPESCRIPT**

MOBILE



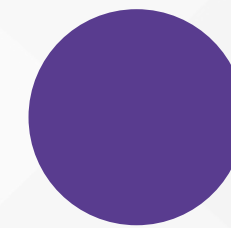
# TECHNOLOGIES

FRONTEND



**NUXTJS**

WEBSITE



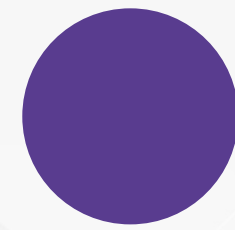
**TYPESCRIPT**

WEBSITE



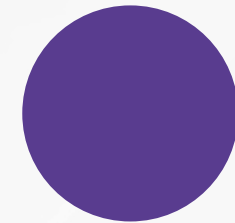
# TECHNOLOGIES

## BACKEND



**.NET**

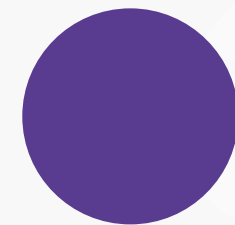
**CLEAN ARCHITCURE**



**EF CORE**

**ORM**

Entity Framework



**SUPABASE**

**RDB**



**VUEFIRE**

**REALTIME CHATTING &  
NOTIFICATIONS**

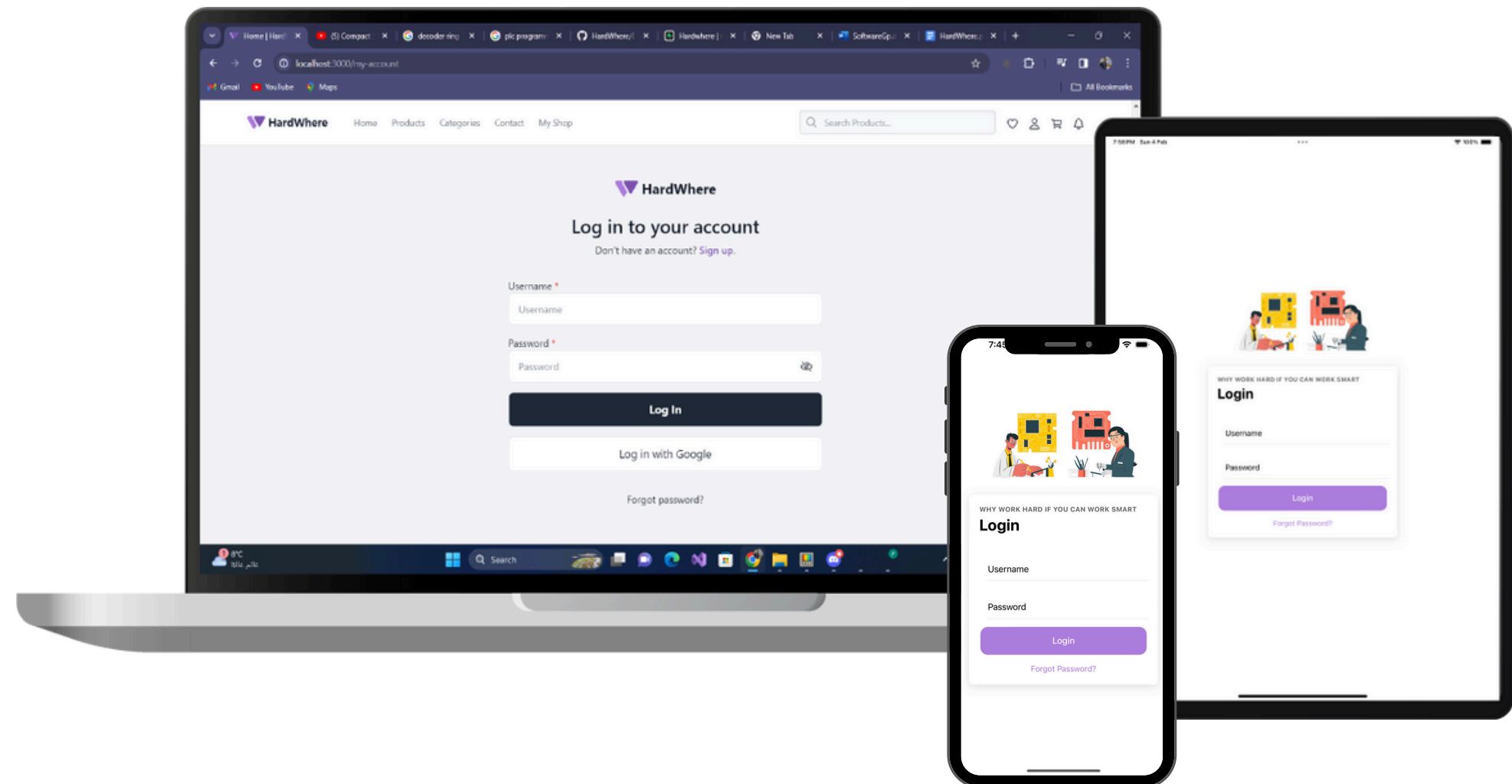


Vuefire

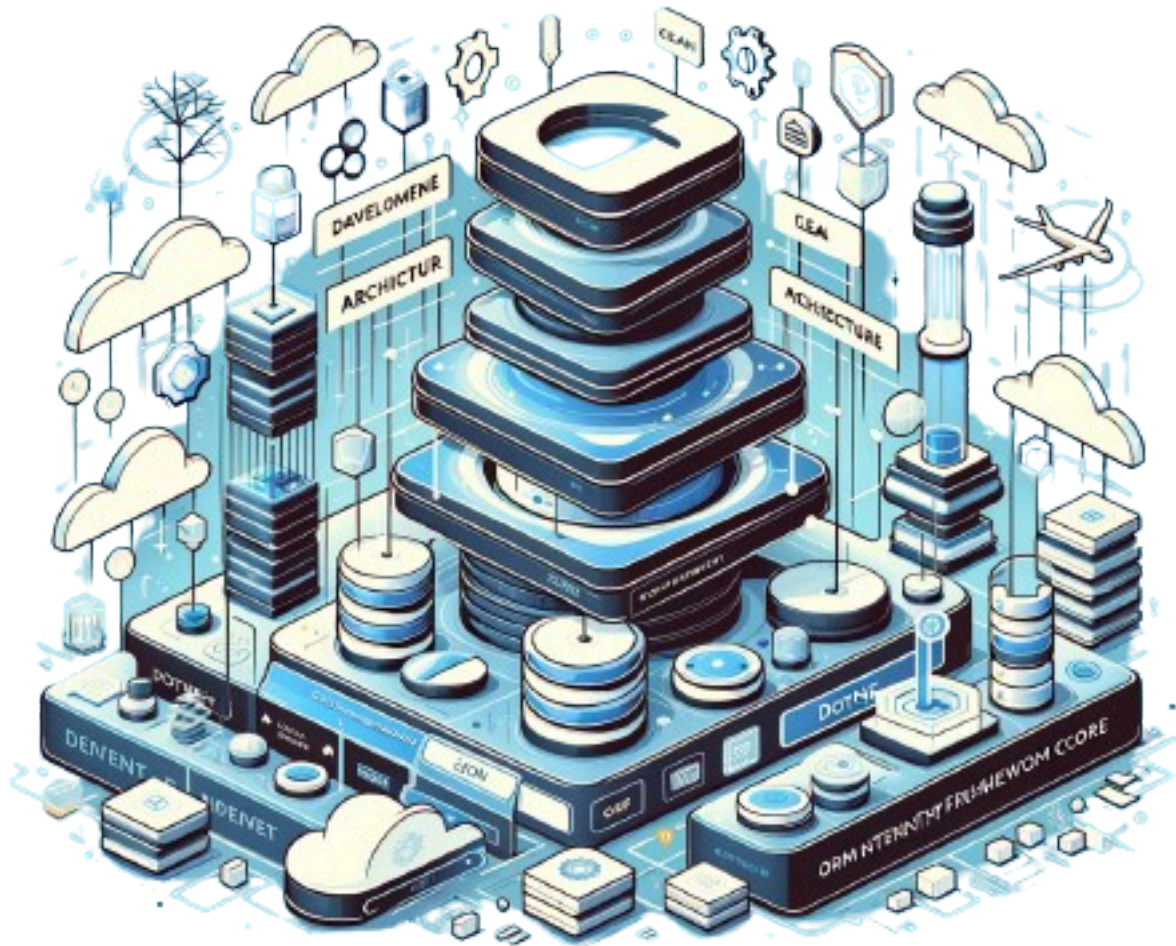
# KEY FEATURES

# FRONTEND DEVELOPMENT

- Responsive web and mobile interfaces



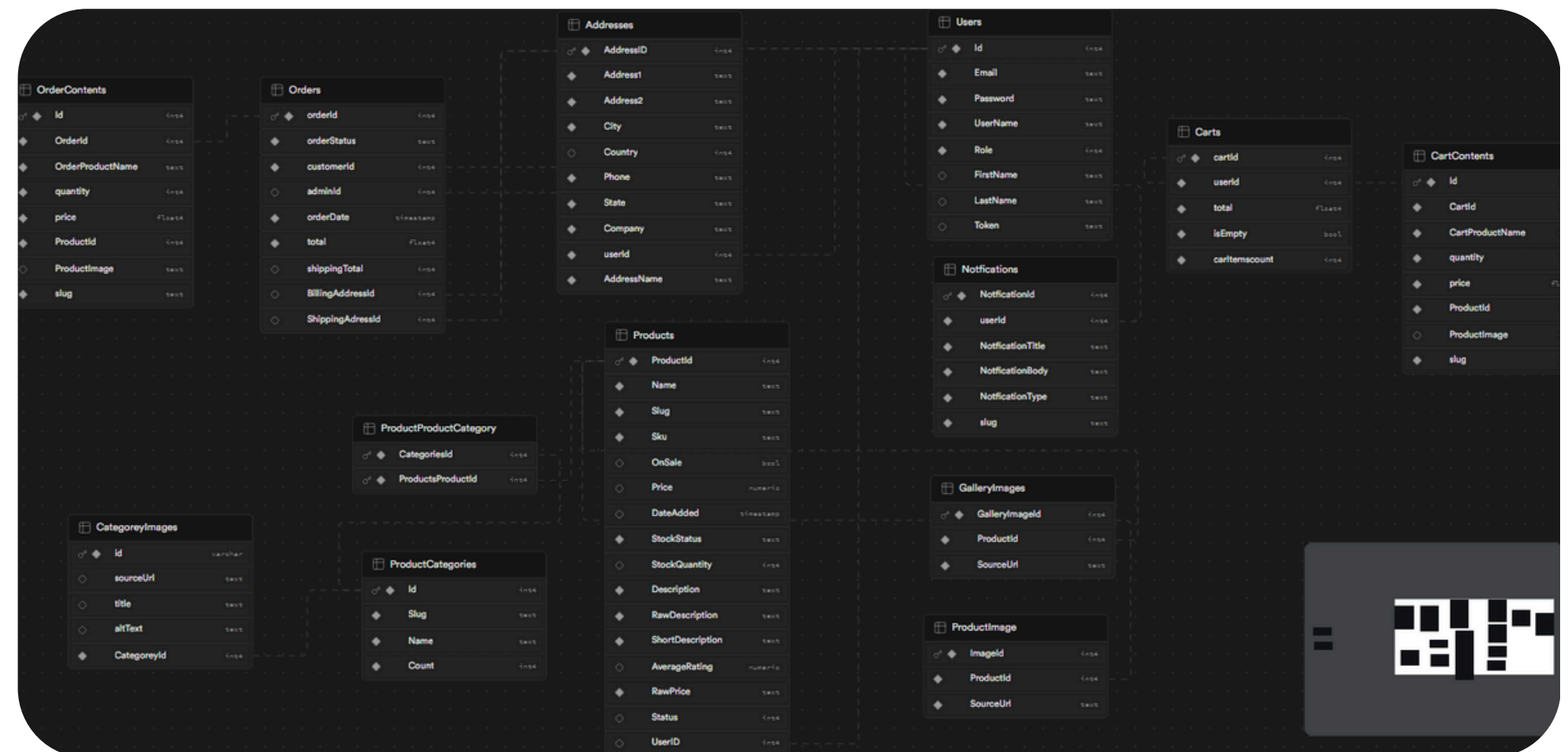
# BACKEND DEVELOPMENT



- Clean architecture
- ORM entity framework
- REST APIs
- Scalable and robust system

# DATABASE AND REAL-TIME CAPABILITIES

- PostgreSQL
- Concurrency Control



# WEB APPLICATION FEATURES

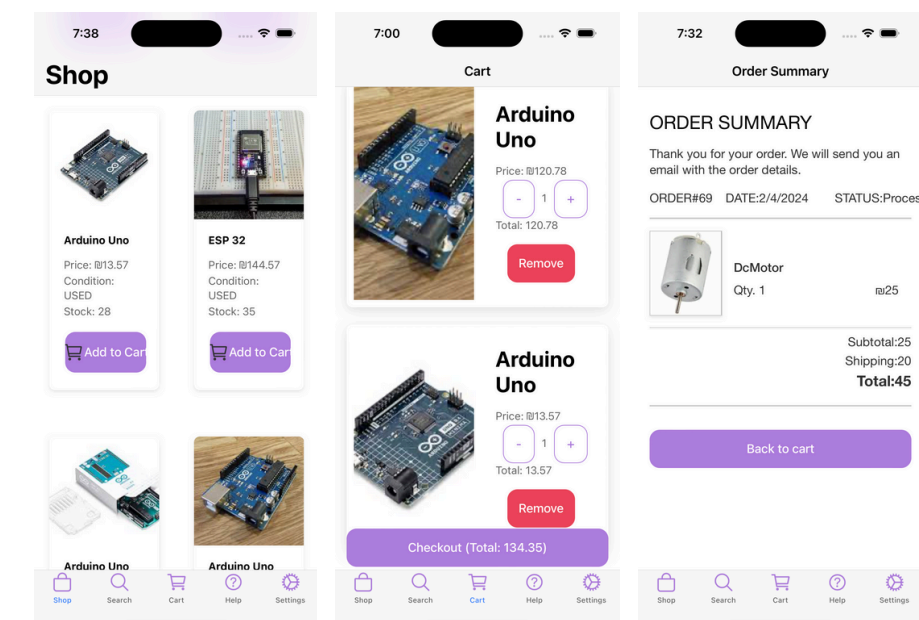
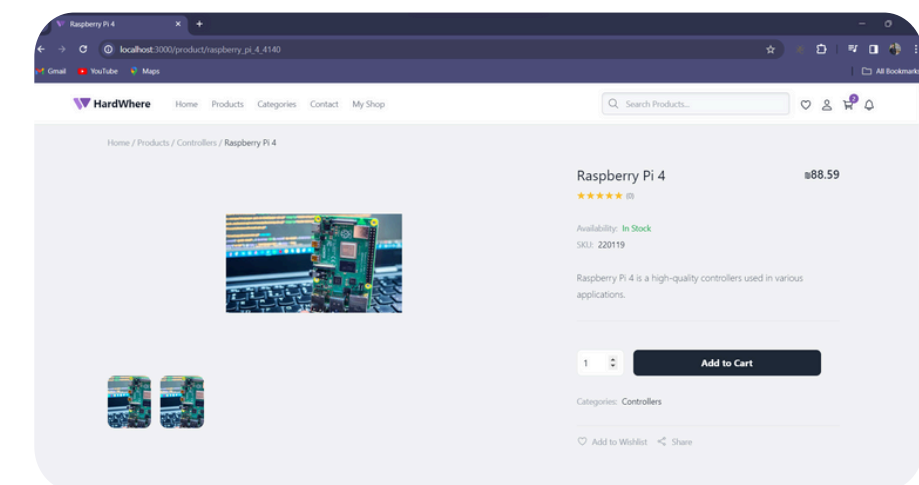
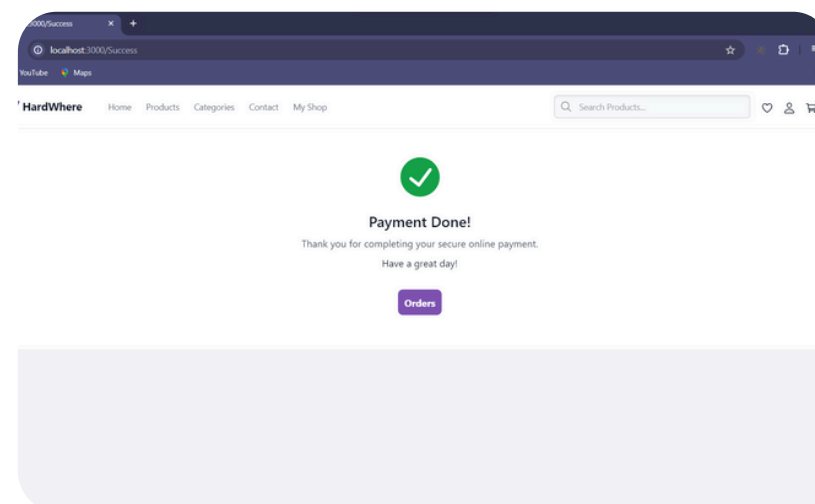
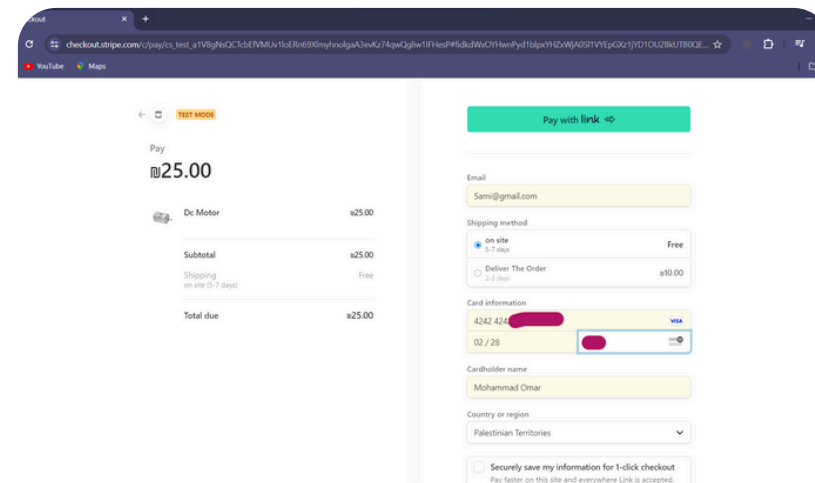


- Search and filter options
- Secure Authentication

# E-COMMERCE FUNCTIONALITIES

## Customer

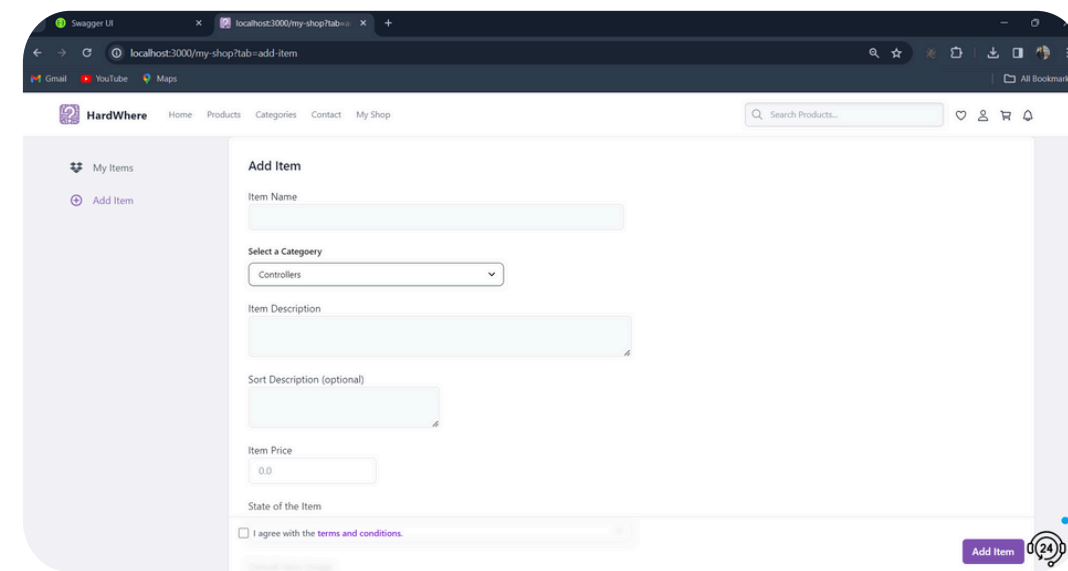
- Online Payment
- Products exploring
- Customized Products
- Cart
- Wishlist
- Product details



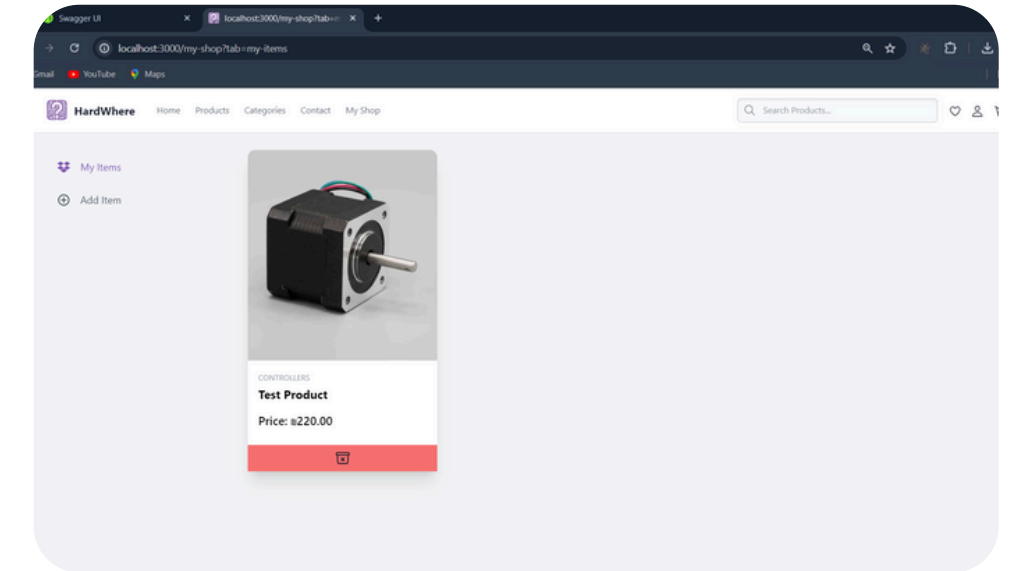
# E-COMMERCE FUNCTIONALITIES

## Sellers

- Online Payment
- My Shop
- Add, Edit and Delete Products



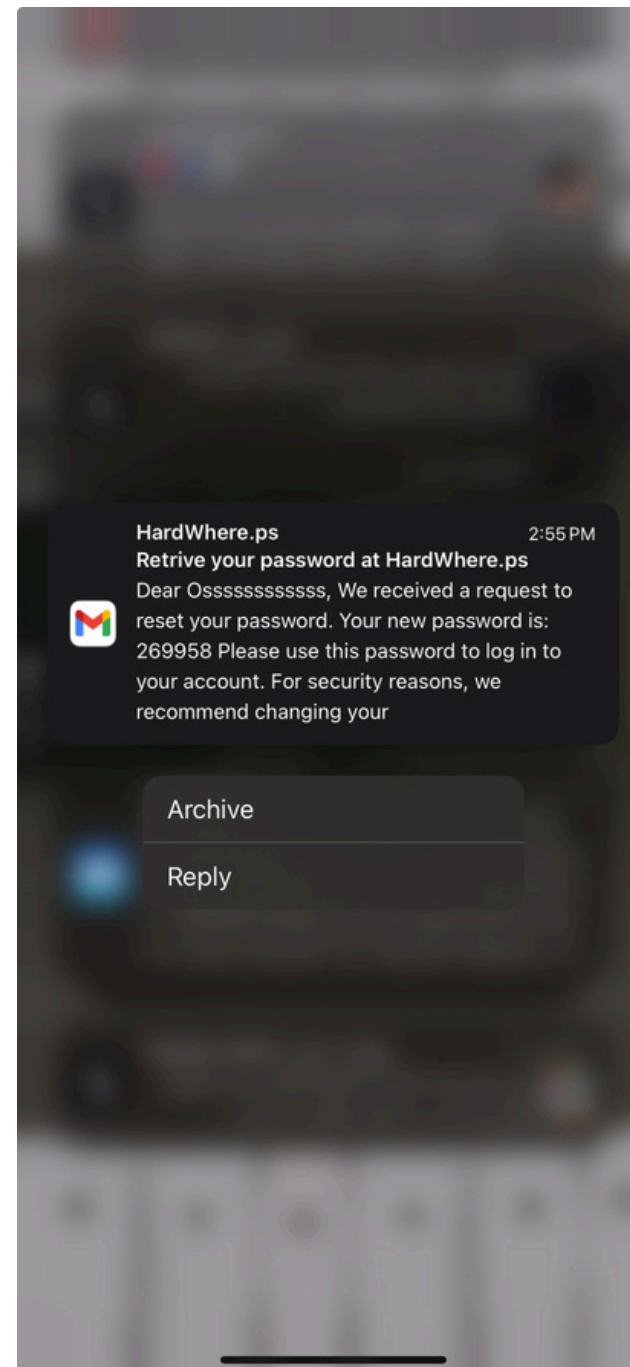
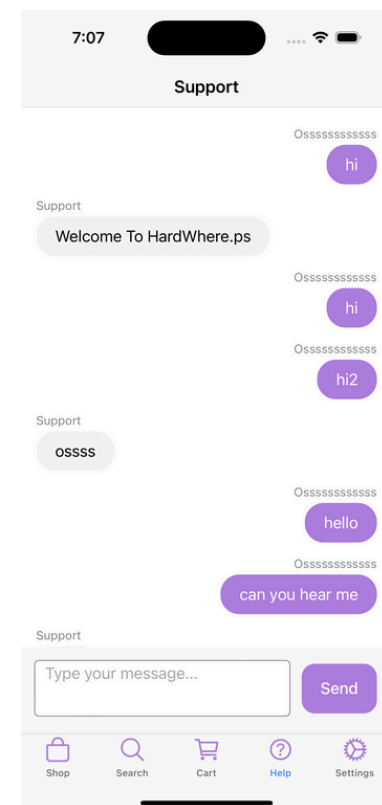
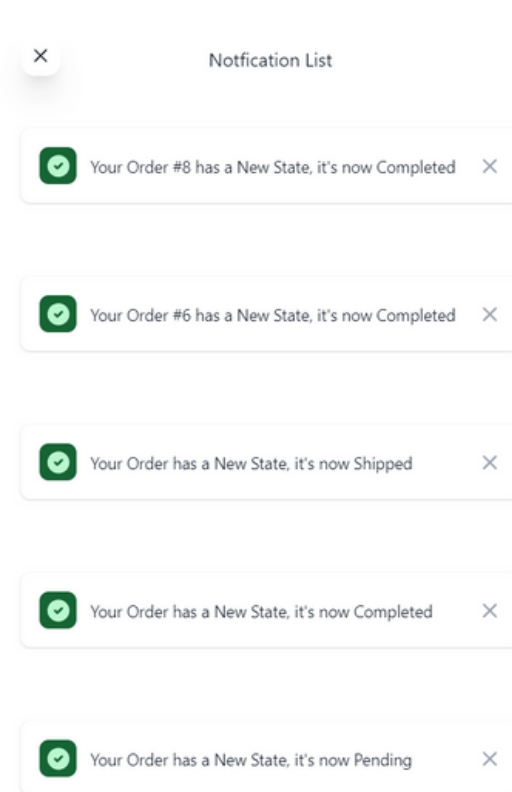
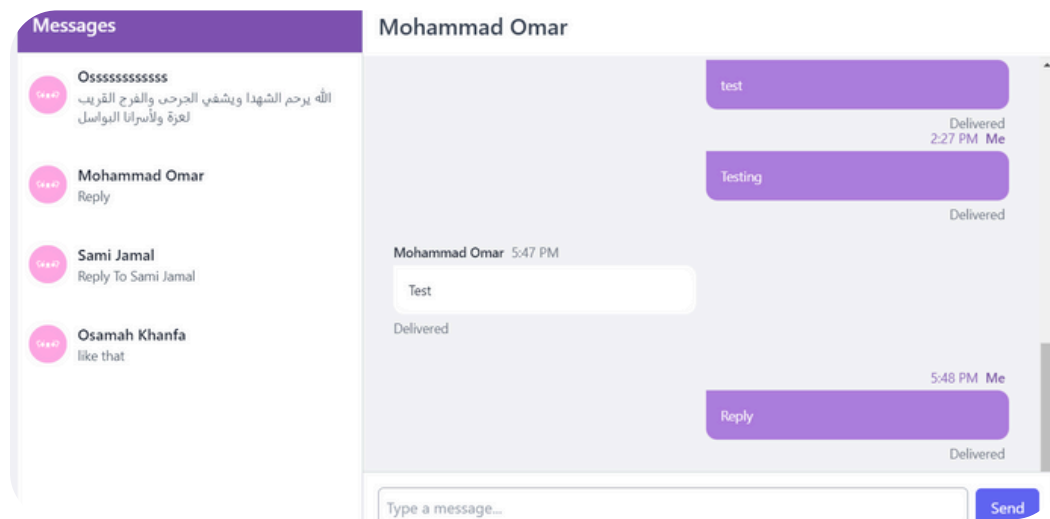
The screenshot shows the 'Add Item' form in the HardWhere application. The form includes fields for Item Name, a dropdown menu for 'Select a Category' (set to 'Controllers'), Item Description, Sort Description (optional), Item Price (0.0), and State of the Item. There is a checkbox for 'I agree with the terms and conditions' and an 'Add Item' button.



The screenshot shows the 'My Items' page in the HardWhere application. It displays a product card for a motor controller with the title 'Test Product' and a price of 'Price: ₪220.00'. There is a red button with a trash icon below the product card.

Amount	Payment method	Description	Customer	Date
25.00 ILS <span>Succeeded ✓</span>	VISA **** 4242	[REDACTED]	Sami@gmail.com	Jan 28, 11:20 PM

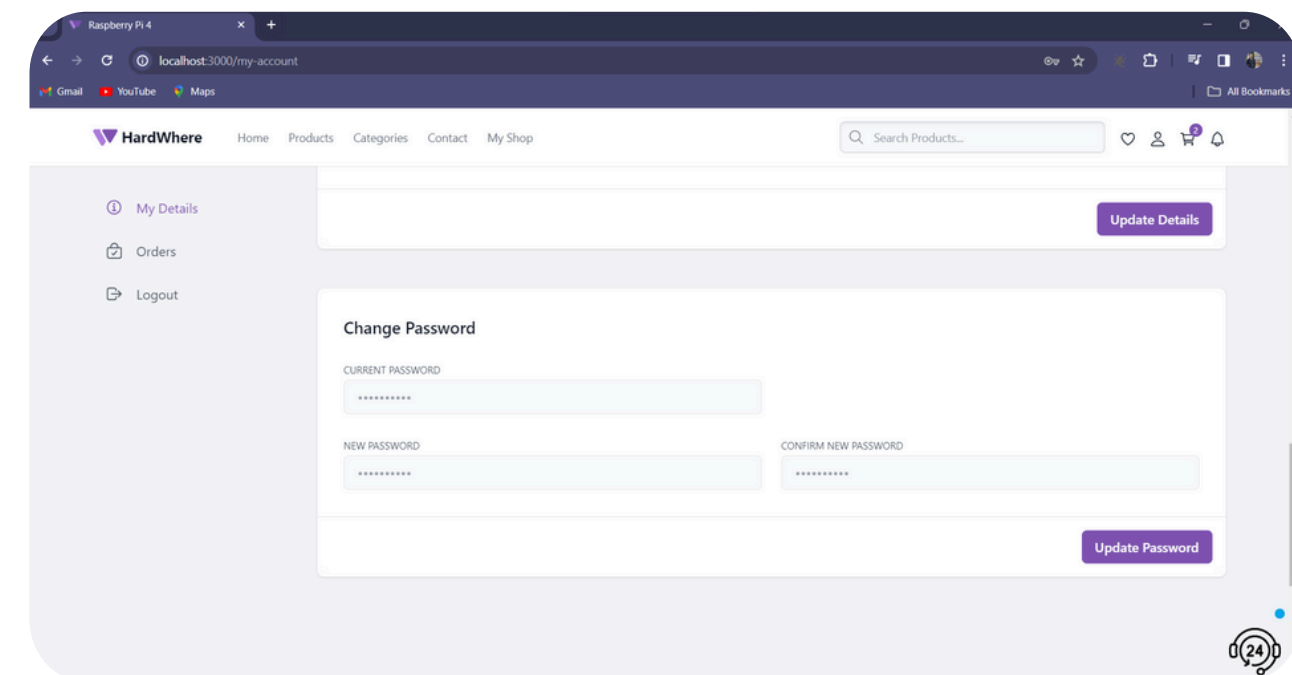
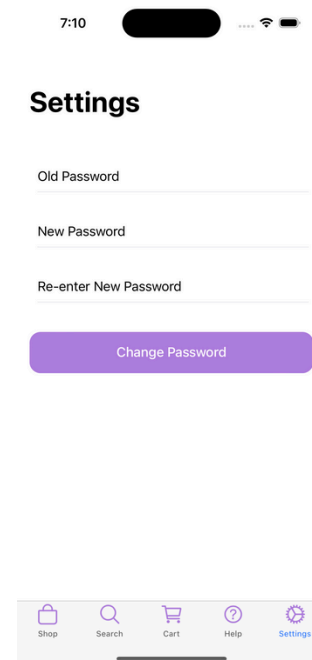
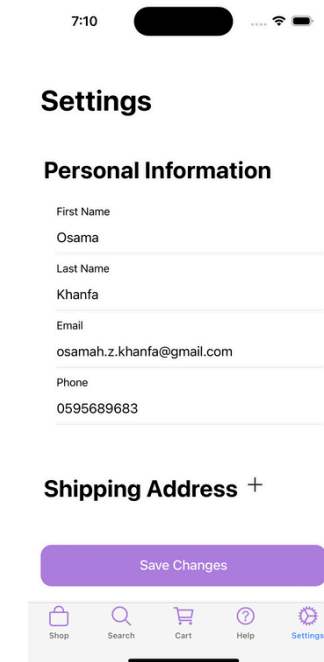
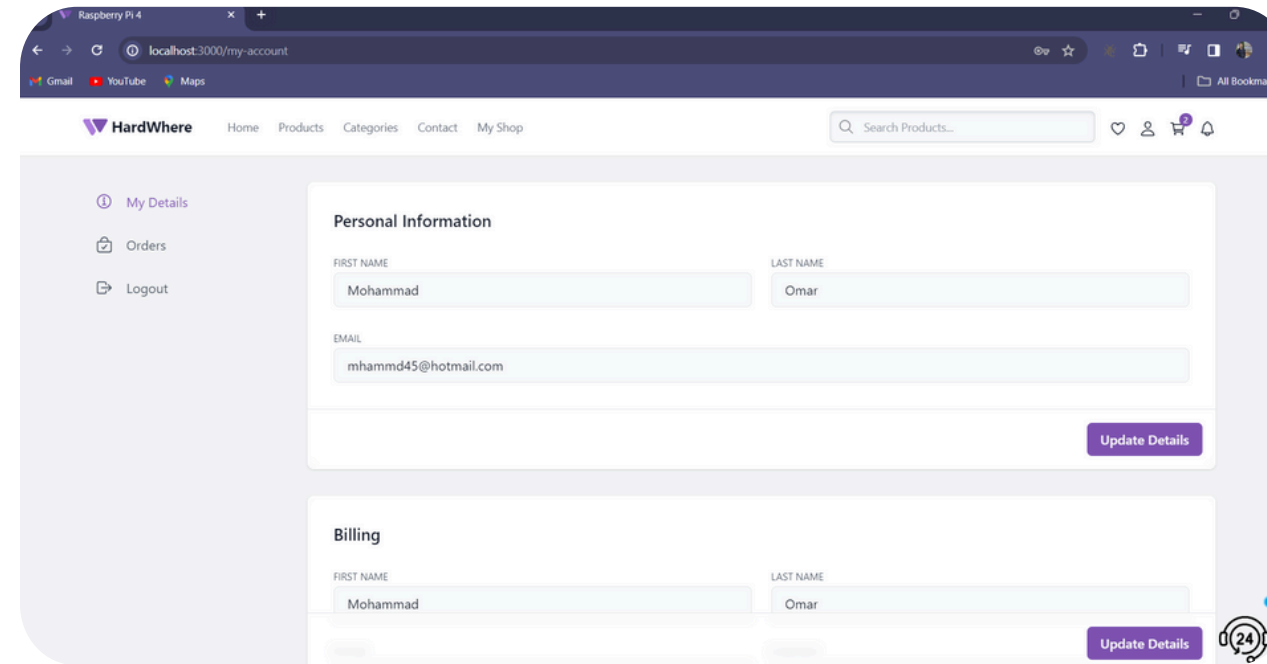
# USER NOTIFICATION AND MESSAGING SYSTEMS



- Real-time notifications
- Mailing system
- Real-time chat with support

# USER PROFILE MANAGEMENT

- Update personal info including shipping addresses and billing



# ADMIN DASHBOARD

The screenshot displays the Admin Dashboard for 'HardWhere'. The top navigation bar includes 'Home', 'Products', 'Categories', 'Contact', and 'My Shop'. A search bar is present for products. The left sidebar contains navigation links for 'Users', 'Products', 'Orders', and 'Messages'. The main content area is divided into two sections:

**Products Management:** A table listing products with columns for 'PRODUCT NAME', 'QUANTITY', 'CATEGORY', 'PRICE', and 'ACTION'. The table contains the following data:

PRODUCT NAME	QUANTITY	CATEGORY	PRICE	ACTION
DcMotor	3	Motors	25.00	Edit Delete
ServoMotor	1	Motors	13.00	Edit Delete
Arduino Uno	56	Controllers	8.87	Edit Delete
Raspberry Pi 4	60	Controllers	136.96	Edit Delete
BeagleBone Black	13	Controllers	45.58	
Arduino Uno	24	Controllers	15.92	
Arduino Uno	18	Controllers	119.29	
Raspberry Pi 4	62	Controllers	84.95	
Arduino Uno	28	Controllers	13.57	

**Orders Management:** A table listing orders with columns for 'ORDER ID', 'ORDER DATE', 'USER NAME', 'ORDER STATUS', and 'CHANGE STATUS'. The table contains the following data:

ORDER ID	ORDER DATE	USER NAME	ORDER STATUS	CHANGE STATUS
13	27/01/2024	Sami Jamal	Completed	ChangeStatus
16	27/01/2024	Sami Jamal	Completed	ChangeStatus
27	28/01/2024	Sami Jamal	Completed	ChangeStatus

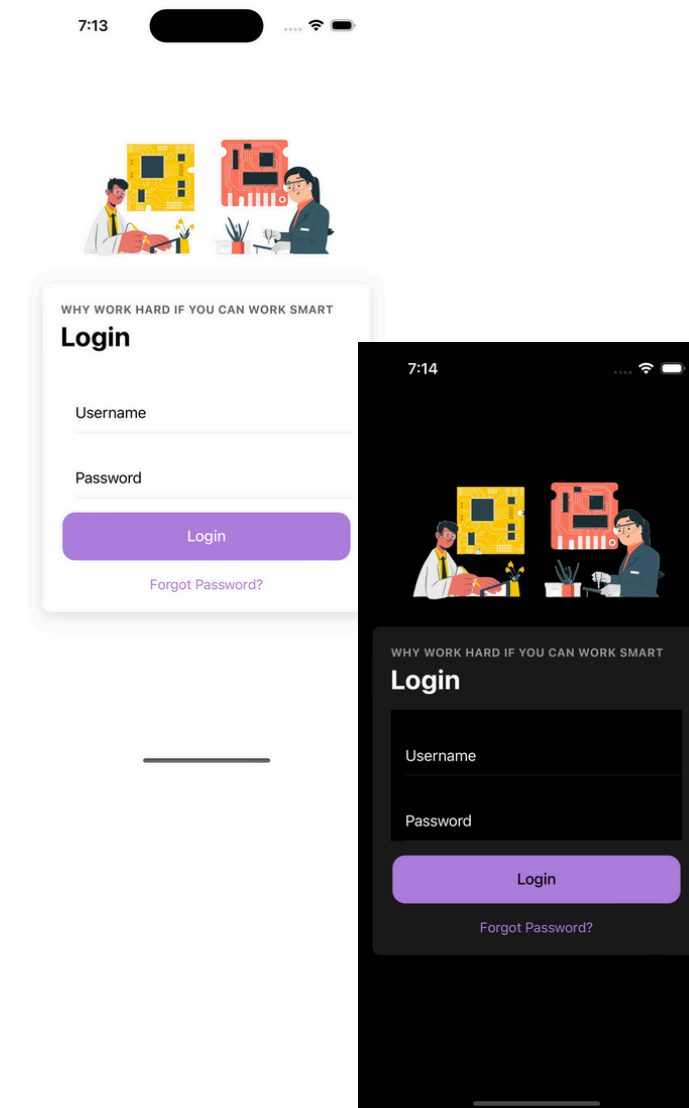
The 'CHANGE STATUS' dropdown menu for the last order is open, showing options: 'ChangeStatus', 'Pending', 'Completed', 'Processing', and 'Shipped'. The 'Messages' section shows a chat interface with a list of messages and a detailed view for a chat with 'Mohammad Omar'. The chat messages include:

- Message 1: Ossssoooooo (Delivered 2:27 PM Me)
- Message 2: محمد يرحم الشهدا ويشفي الحرج والفرج القريب لعدة وأسرايا التواسل (Delivered)
- Message 3: Mohammad Omar Reply (Delivered)
- Message 4: Sami Jamal Reply To Sami Jamal (Delivered)
- Message 5: Osamah Khanfa like that (Delivered)

- Full access on products and users
- Processing orders and update statuses
- Chating with users to answer their enquiries

# MOBILE APPLICATION FEATURES

- easy to use UI
- Support for dark theme



**THANK YOU**

[www.HardWhere.ps](http://www.HardWhere.ps)