

Electron Store

CPIT 405

Section:

A31

Prepared by:

Fatimah Alyami - 1907018
Sarah Almeshaal - 1907432
Thuraya Alfahmi - 1816115

Prepared for:

Dr. Wafaa Alsaggaf

Date of Delivery:

May 29, 2023

Table of Content

Abstract.....	1
Introduction.....	2
Database.....	2
Interfaces.....	3
Home Page.....	3
Contact Us Page.....	4
About Us Page.....	6
Login Page.....	7
Create Account Page.....	9
Audio Visuals Page.....	12
Laptops Page.....	12
Monitors Page.....	13
Product Page.....	13
Distribution of Tasks.....	14
Conclusion.....	14

Abstract

With the emergence of e-commerce and online payments, it offers a convenient and effortless way to shop everything we desire. In this project, we created a website that specializes in providing a variety of electronic products for consumers to choose from.

Introduction

Having a common interest in technology and electronics, we decided to develop an online store for computers and electronic products, called "Electron Store". As a requirement in this course, we only used the following languages, HTML and CSS for creating and styling the web pages, Javascript to make the site interactive, and lastly php as the backend. Furthermore, we created a database using mySQL Database to register new users.

Database

Using phpMyAdmin, we were able to create a database with one table called USERS. This table is beneficial for storing new users' information into the system as well as retrieving their information. Figure 1 depicts the structure of the USERS Table and its constraints.




















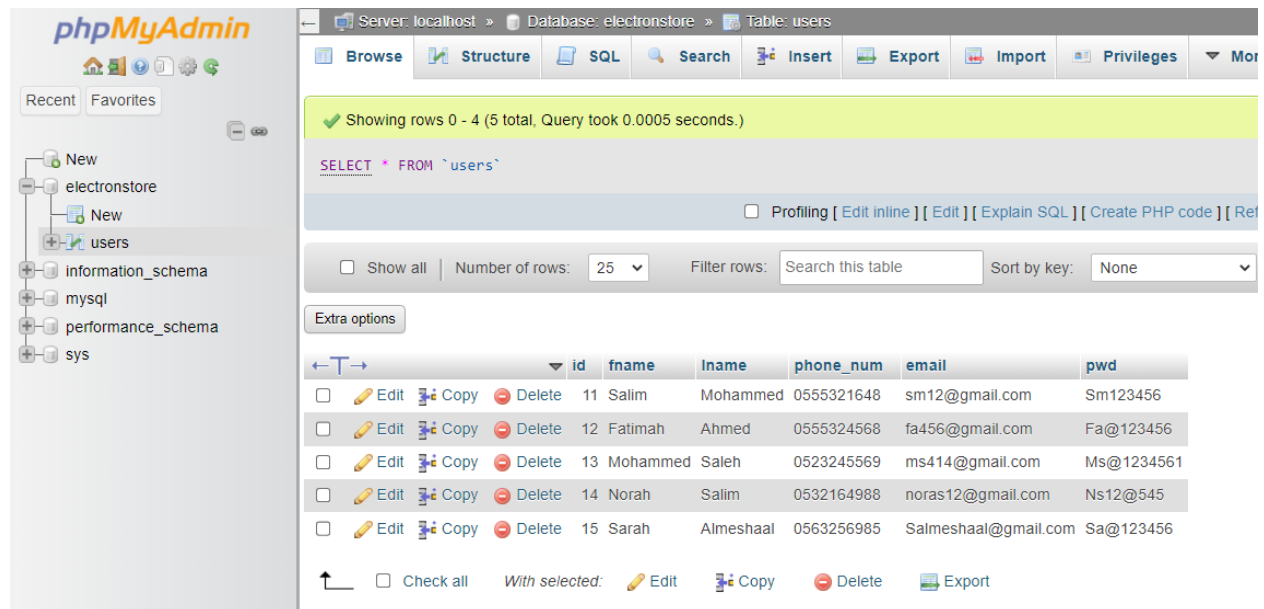
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id 	int			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 fname	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/>	3 lname	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/>	4 phone_num	varchar(40)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/>	5 email	varchar(100)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/>	6 pwd	varchar(255)	utf8mb4_general_ci		No	None			 Change  Drop  More

Figure 1: Table Structure

As shown in Figure 2, the table will store the user's first name, last name, phone number, email as well as the password, all of which are necessary for authenticating and validating the users.



Server: localhost > Database: electronstore > Table: users

Showing rows 0 - 4 (5 total, Query took 0.0005 seconds.)

`SELECT * FROM `users``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Ref \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

				id	fname	lname	phone_num	email	pwd
<input type="checkbox"/>	Edit	Copy	Delete	11	Salim	Mohammed	0555321648	sm12@gmail.com	Sm123456
<input type="checkbox"/>	Edit	Copy	Delete	12	Fatimah	Ahmed	0555324568	fa456@gmail.com	Fa@123456
<input type="checkbox"/>	Edit	Copy	Delete	13	Mohammed	Saleh	0523245569	ms414@gmail.com	Ms@1234561
<input type="checkbox"/>	Edit	Copy	Delete	14	Norah	Salim	0532164988	noras12@gmail.com	Ns12@545
<input type="checkbox"/>	Edit	Copy	Delete	15	Sarah	Almeshaal	0563256985	Salmeshaal@gmail.com	Sa@123456

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Figure 2: Table Users

Interfaces

HTML and CSS languages enabled us to create the desired structure and style of the web pages. Every page has a header, which enables users to navigate between categories, and a footer that has a link to the “Contact us” page as well as an “About us” page. In this section, we will explain every page in detail.

Home Page

As shown in Figure 3, we created a home page that displays the featured products to the user, along with their name and prices.

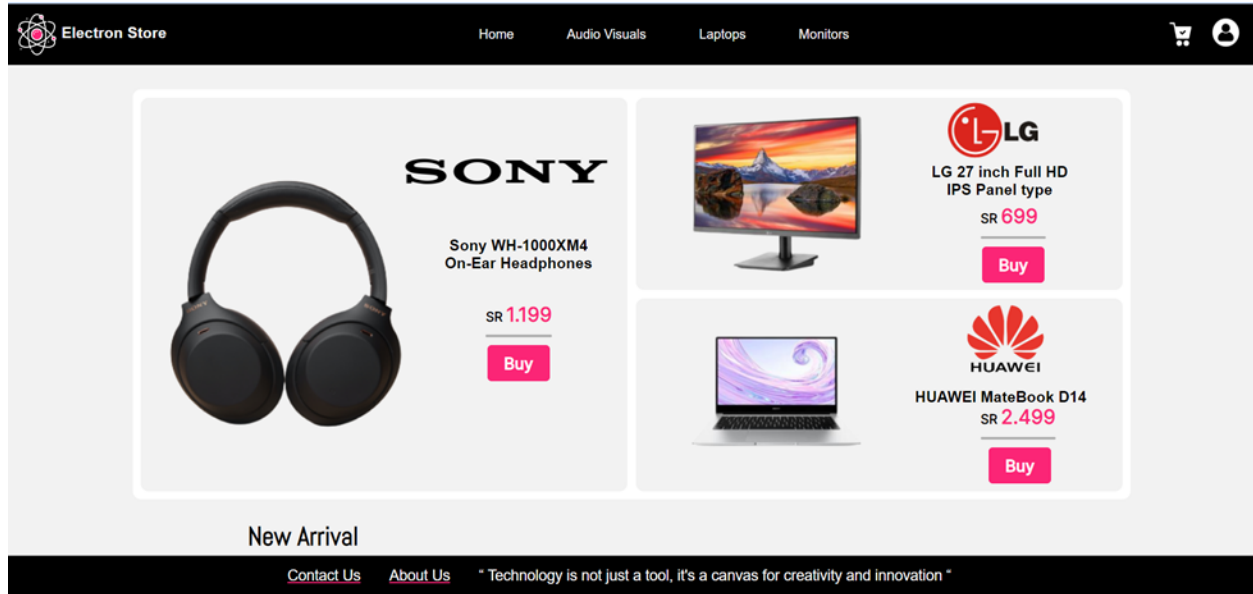


Figure 3: Home Page

Contact Us Page

Here is where users can find official contact information and a form to fill out regarding their reason to contact us.

The screenshot shows the 'Contact Us' page of 'Electron Store'. The header is identical to the home page. The main content area is divided into two sections. On the left is a 'Contact Information' sidebar with a grey background, containing the text 'Fill up the form and our team will get back to you within 24 hours.', a phone icon with the number '9200 00089', an email icon with the address 'Electron-contact@Electron.com', a location pin icon for 'Jeddah', and social media icons for Twitter and Instagram. On the right is the 'Contact Us' form. It starts with a 'General info' section containing input fields for 'First Name', 'Last Name', 'Email', and 'Phone Number'. Below this is a section titled 'What is the reason for contacting us ?' with three radio button options: 'Complain', 'Suggest', and 'Other'. The next section is 'Message', which includes a large text area for the user to write their message. At the bottom right of the form are 'Clear Form' and 'Send' buttons. The footer is identical to the home page.

Figure 4: Contact Us Page

All form fields are required and the website will verify that the input field has been filled out before submitting the form, as it shows in Figure 5.

Contact Us

General info

First Name

Last Name

Email Please fill out this field.

Phone Number

What is the reason for contacting us ?

☐ Complain ☐ Suggest ☐ Other

Message

Write your message here...

Clear Form Send

Figure 5: Contact Us Page Client Side Validation

If the user entered the wrong format of input field, an error message explaining what's wrong will be displayed.

Contact Us

General info

First Name First name should contains only letters

Last Name Last name should contains only letters

Email Not a valid email

Phone Number Not a valid phone number

What is the reason for contacting us ?

☐ Complain ☐ Suggest ☐ Other

Message

Write your message here...

Clear Form Send

Figure 6: Contact Us Page Server Side Validation

The user can click on the send button to submit the form, or click on clear to reset the fields, either way a confirmation window will pop out to confirm their choice. Figure 7 and 8 shows the two cases of the confirmation window.

The screenshot shows the 'Contact Us' page of the 'Electron Store'. A modal dialog box is open at the top center with the text 'Are you sure to proceed ?' and two buttons: 'OK' and 'Cancel'. The page layout includes a header with the 'Electron Store' logo, a shopping cart icon, and a user profile icon. On the left, there is a 'Contact Information' sidebar with contact details: phone number 9200 00089, email Electron-contact@Electron.com, location Jeddah, and social media icons for Twitter and Instagram. The main form area is titled 'Contact Us' and contains sections for 'General info' (First Name: Sarah, Last Name: Almeshaal, Email: sara_almeshaal@outlook.com, Phone Number: 0544330645), 'What is the reason for contacting us ?' (radio buttons for Complain, Suggest, and Other, with 'Other' selected), and a 'Message' text area containing the text 'Such a wonderful website keep the hard work <3'. At the bottom right of the form are 'Clear Form' and 'Send' buttons. The footer contains links for 'Contact Us' and 'About Us', and a tagline: 'Technology is not just a tool, it's a canvas for creativity and innovation'.

Figure 7: Contact Us Page Send Confirmation

The screenshot shows the 'Contact Us' page of the 'Electron Store'. A modal dialog box is open at the top center with the text 'Are you sure to clear the form ?' and two buttons: 'OK' and 'Cancel'. The page layout is identical to Figure 7, but the 'Other' radio button under 'What is the reason for contacting us ?' is now selected. The 'Message' text area is empty and contains the placeholder text 'Write your message here...'. The 'Clear Form' and 'Send' buttons are still present at the bottom right of the form. The footer remains the same with links for 'Contact Us' and 'About Us', and the tagline: 'Technology is not just a tool, it's a canvas for creativity and innovation'.

Figure 8: Contact Us Page Clear Form Confirmation

About Us Page

This page contains the information of the developer team of this website, which includes their names and email.

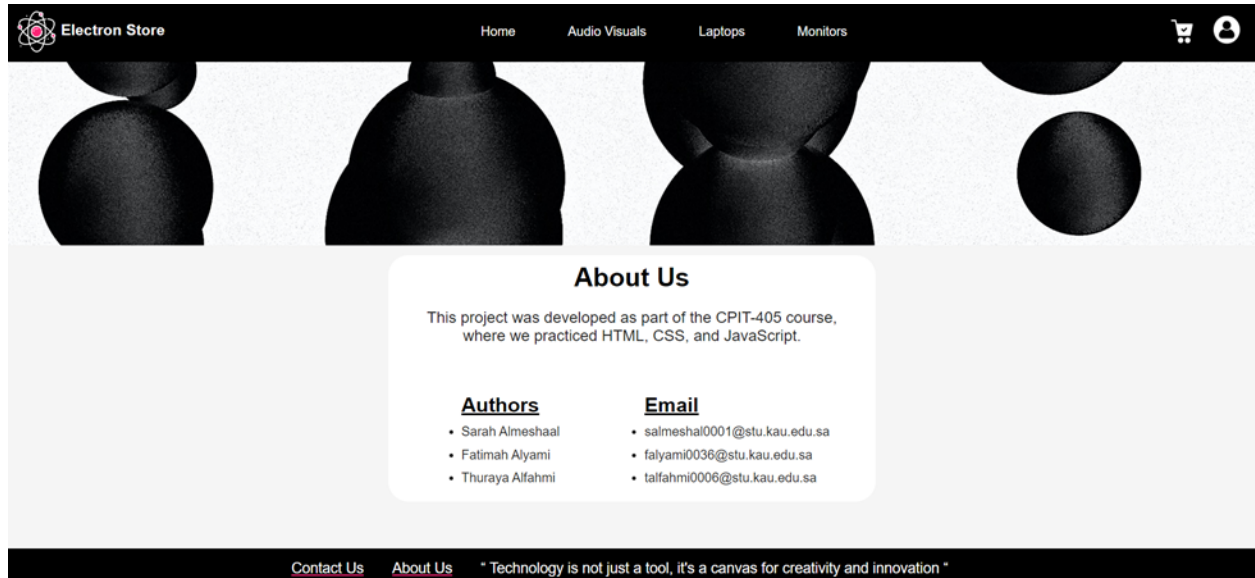


Figure 9: About Us Page

Login Page

This page allows the user to login into her/his account by entering their email and password. If the user doesn't have an account, they have the option to sign up.

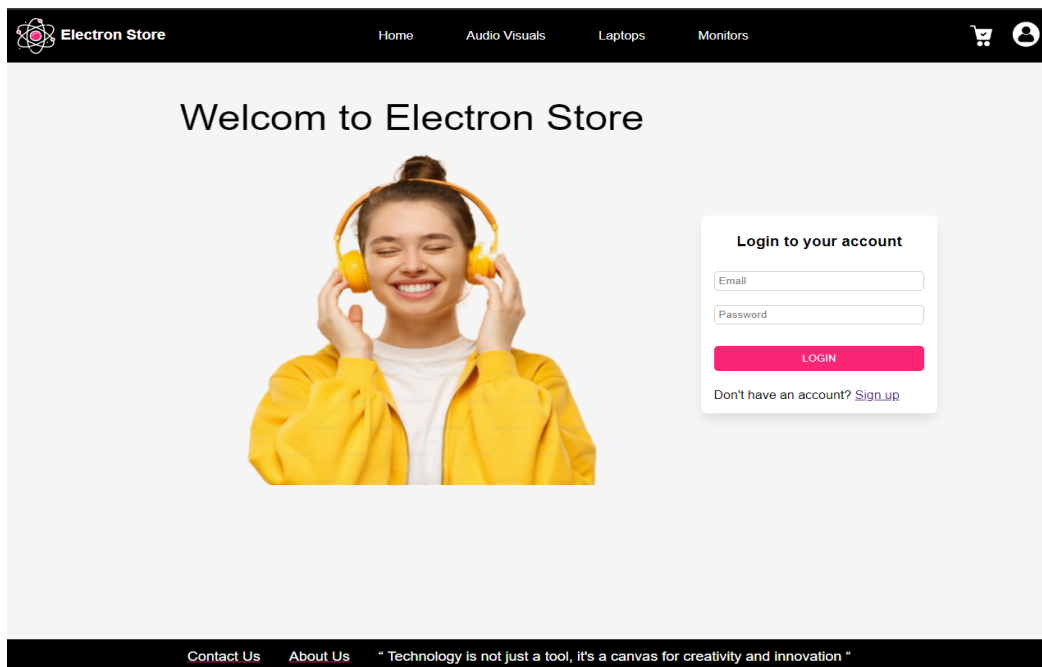


Figure 10: Login Page

As shown in Figure 11, we created a onekeyup vs onekeydown javascript event when the user types in the email field.

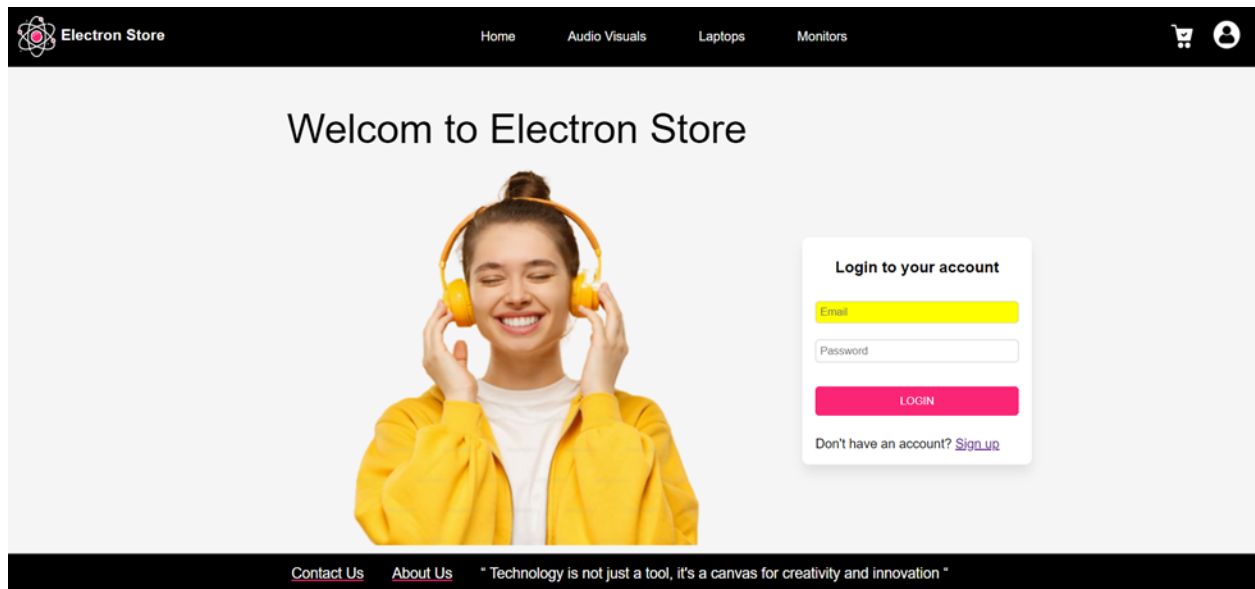


Figure 11: Onekeyup vs Onekeydown Event

When the user types in the email or password fields, they will get a hint text describing the correct format to follow.

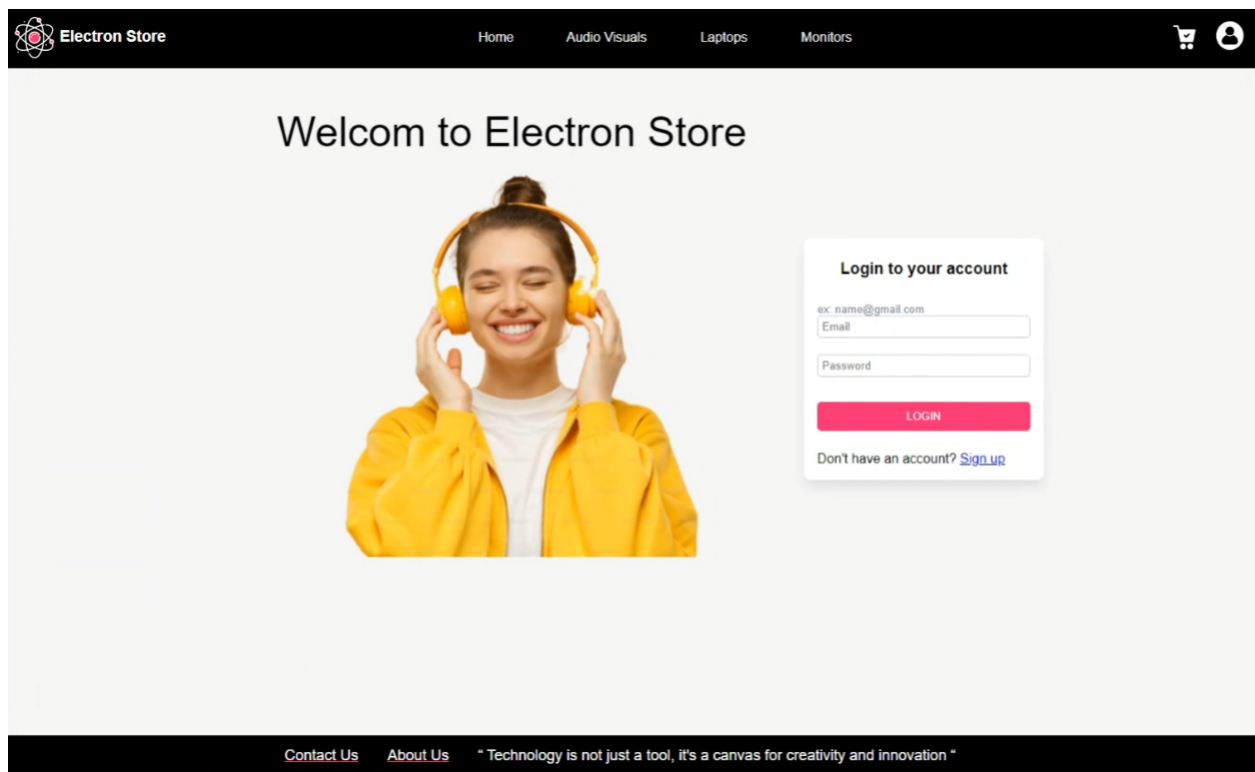


Figure 12: Email Focus & Blur Event

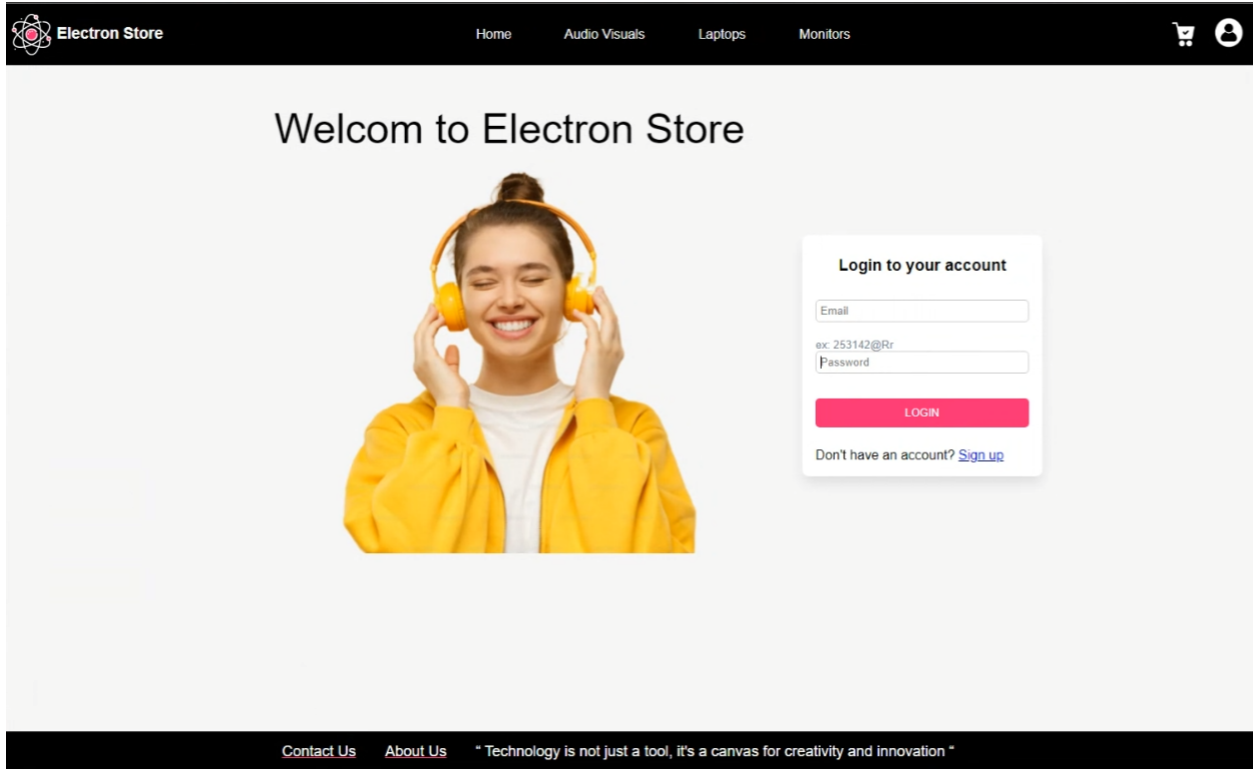


Figure 13: Password Focus & Blur Event

Create Account Page

This page allows the users to create an account in the store.

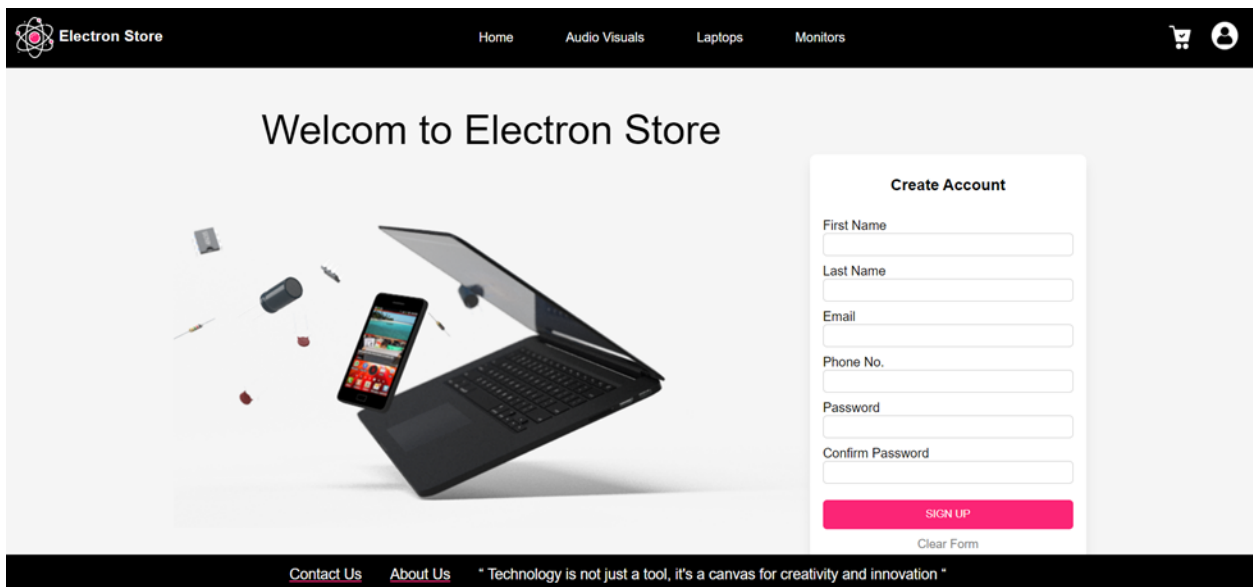


Figure 14: Create Account Page

The user will be requested to fill out the required fields as shown in Figure 15.

The screenshot shows the 'Create Account' form on the Electron Store website. The form is titled 'Create Account' and includes fields for First Name, Last Name, Email, Phone No., Password, and Confirm Password. A pink 'SIGN UP' button is at the bottom of the form. A tooltip message 'Please fill out this field.' is displayed over the Last Name field, indicating a client-side validation error. The background features a laptop and various electronic components. The website header includes the 'Electron Store' logo and navigation links: Home, Audio Visuals, Laptops, and Monitors. The footer contains links for 'Contact Us' and 'About Us', along with the tagline 'Technology is not just a tool, it's a canvas for creativity and innovation'.

Figure 15: Create Account Page Client Side Validation

If any of the fields were written incorrectly, an error message will get displayed to the user.

The screenshot shows the 'Create Account' form on the Electron Store website with server-side validation errors. The form is titled 'Create Account' and includes fields for First Name, Last Name, Email, Phone No., Password, and Confirm Password. A pink 'SIGN UP' button is at the bottom of the form. Red error messages are displayed below each field: 'First name should contains only letters' for First Name, 'Last name should contains only letters' for Last Name, 'Not a valid email' for Email, 'Not a valid phone number' for Phone No., 'Not a valid password' for Password, and 'Password are not matching' for Confirm Password. The background features a laptop and various electronic components. The website header includes the 'Electron Store' logo and navigation links: Home, Audio Visuals, Laptops, and Monitors. The footer contains links for 'Contact Us' and 'About Us', along with the tagline 'Technology is not just a tool, it's a canvas for creativity and innovation'.

Figure 16: Create Account Page Server Side Validation

In Figure 17 and 18, it shows that after the user submit the form or clear it, a confirmation window will appear.

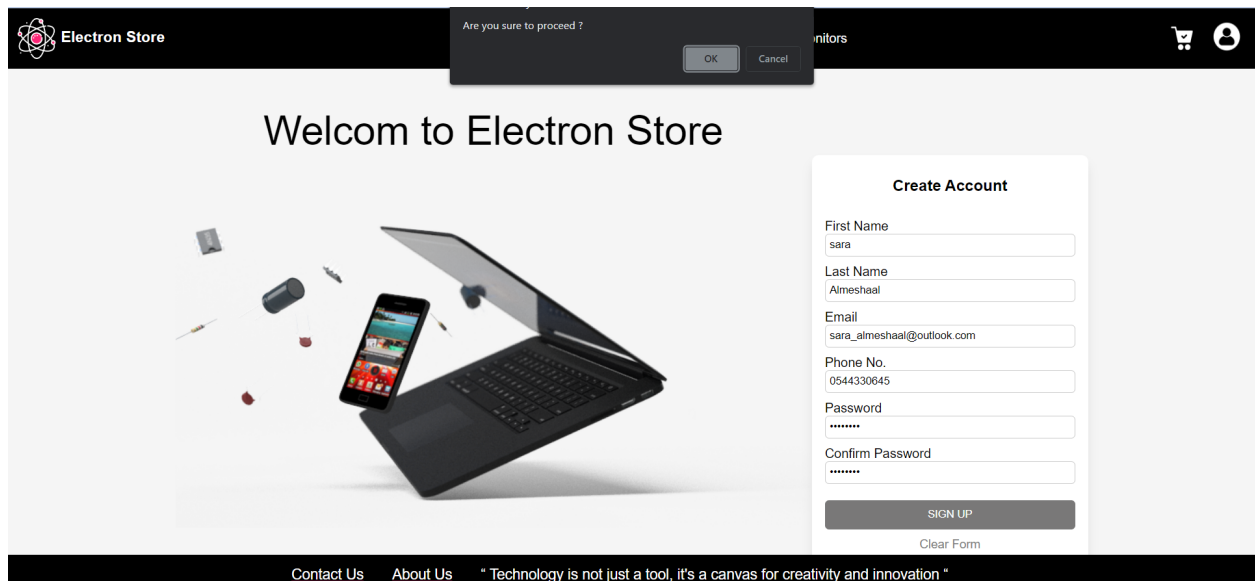


Figure 17: Create Account Page Send Confirmation

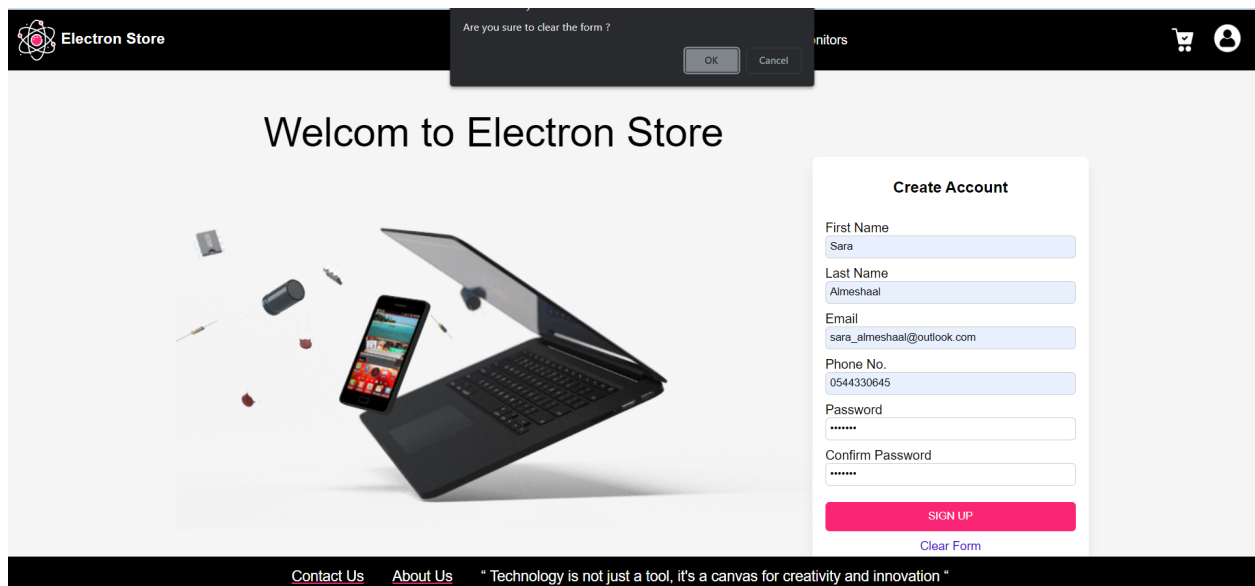


Figure 18: Create Account Page Clear Form Confirmation

Audio Visuals Page

This page displays the audio visuals products and their prices.

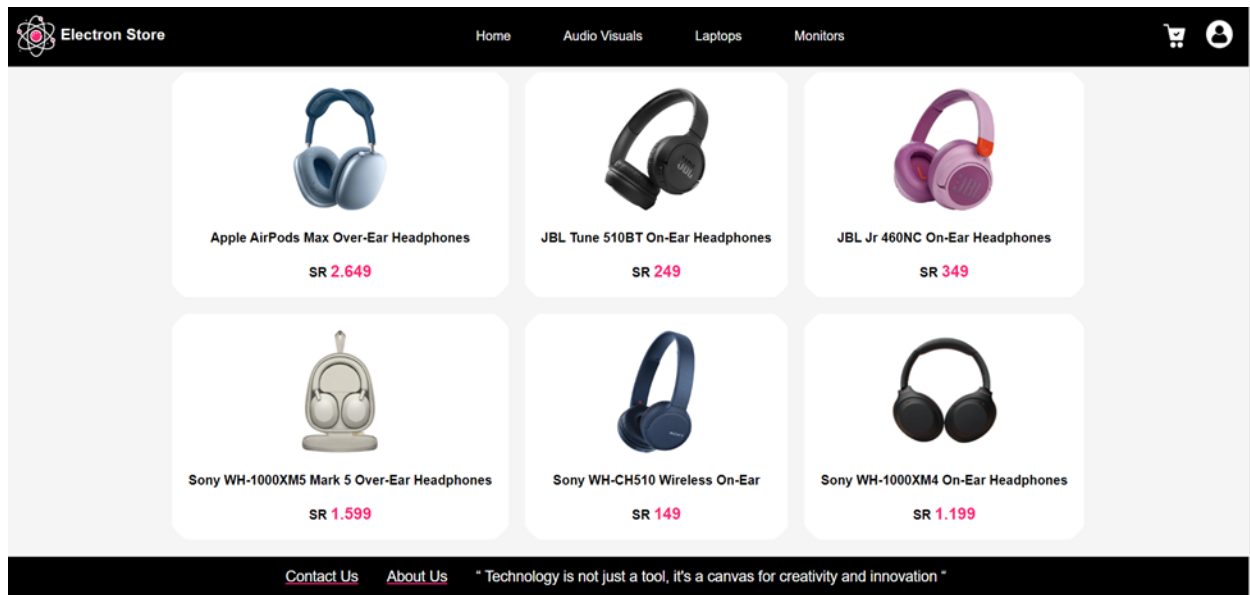


Figure 19: Audio Visuals Page

Laptops Page

This page displays the laptops products.

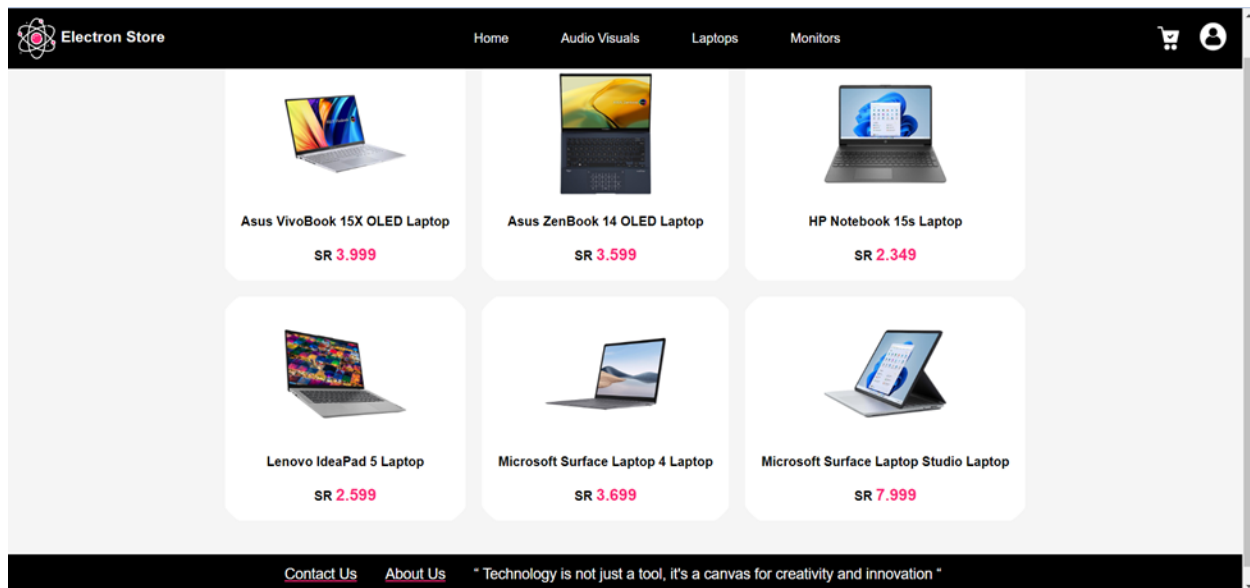


Figure 20: Laptops Page

Monitors Page

This page displays all the monitors products.

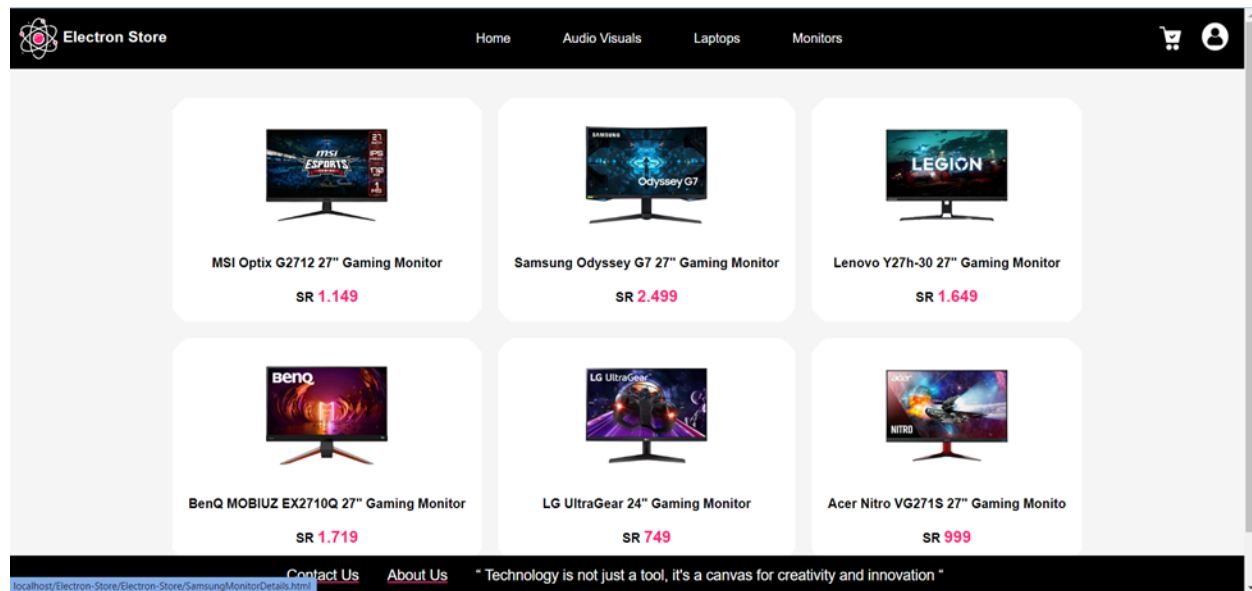


Figure 21: Monitors Page

Product Page

In this layout, the store products are displayed along with product details and return policies. In addition, the user is able to select the quantity of product as well as watch an overview for the item by clicking on an external link.

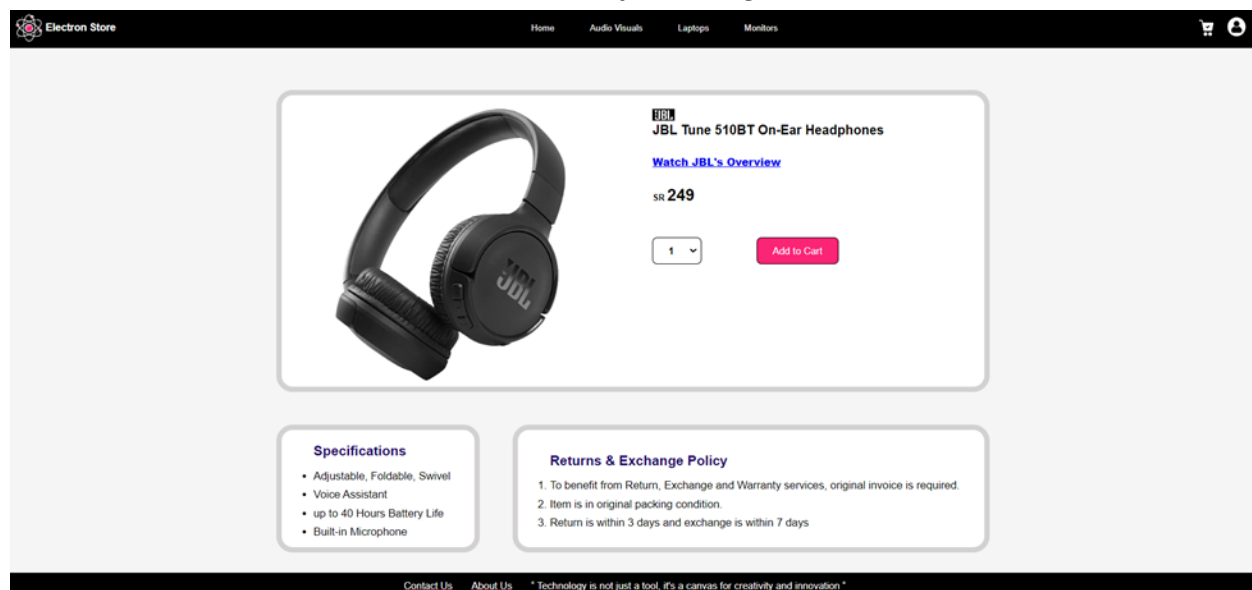


Figure 22: Product Page

Distribution of Tasks

The following table summarizes the distribution of functions and pages:

Name	HTML + CSS	Javascript	PHP
Fatimah Alyami	Products pages	Focus and Blur events in "login" page	Store "Create Account" data into database
	Monitor & laptop & audio visual categories pages		
	About us page		
Sarah Almeshaal	Contact us page	Confirmation message in "Create Account" page	Fields validations
	Home page		
Thuraya Alfahmi	Login page	onekeydown vs onkeyup in "login" page	Retrieve the information of user from database
	Create Account Page		

Conclusion

This project gave us the opportunity to discover and practice the basics of web development. We worked together as a team to implement this Electron Store website using HTML, CSS, JavaScript, and PHP. The following list summarizes what we have done:

- A database was created to store and retrieve users information
- Experimented with CSS styles, selectors and transitions
- Implemented javascript events specifically focus and blur events, confirm window method, and lastly onekeydown vs onkeyup events
- Used PHP to connect and communicate with the database, as well as create field validations