

University of Messina



Bachelor of Data Analysis

ACADEMIC YEAR - 2023/2024

WEB-PROGRAMMING

(Project Report)

CRICKET SHOP

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INTRODUCTION

Project Overview

This platform has been designed to offer a good experience for purchasing high-quality cricket equipment. At the heart of our mission is a commitment to providing cricket enthusiasts access to the same level of precision gear that is trusted by international players.

This platform is powered by the advanced web technologies, including HTML, CSS, JavaScript, and PHP, to provide a user-centric and robust shopping experience.

This project not only leverages the latest in web development but is also under the care of a team of professional administrators. These administrators, with their expertise and commitment, play a crucial role in maintaining the integrity and functionality of our website.

Programming Languages

HTML: serves as the foundational markup language for creating the structure and content of web pages.

CSS: is used for styling and layout purposes, allowing developers to control the visual presentation of HTML elements. It defines the colors, fonts, spacing, and overall aesthetics of the web pages

JS: is a versatile scripting language used to add interactivity, dynamic content, and client-side functionality to web pages. It enables real-time updates, form validations, and responsive user interfaces.

PHP: Serves as the server-side scripting language, responsible for processing user requests, interacting with the database, and generating dynamic content.

Data Storing

To facilitate data storage, I have hosted a Docker Container on the local system, equipped with PHP, phpMyAdmin, and MySQL support.

PHPMyAdmin is a web-based tool for managing MySQL database. It provides an intuitive interface to interact with the database, making it easier for administrators and developers to handle tasks such as database creation, querying, and maintenance.

Database Schema

The MySQL database is structured to efficiently store and retrieve data. The schema includes the following key tables:

User Table: Stores user information, including user ID, name, hashed passwords, email and address.

Products Table: Contains details about each products with corresponded ID model, product type, product image, details and price.

Admin Table: Contains details about our administrators, email, and hashed passwords

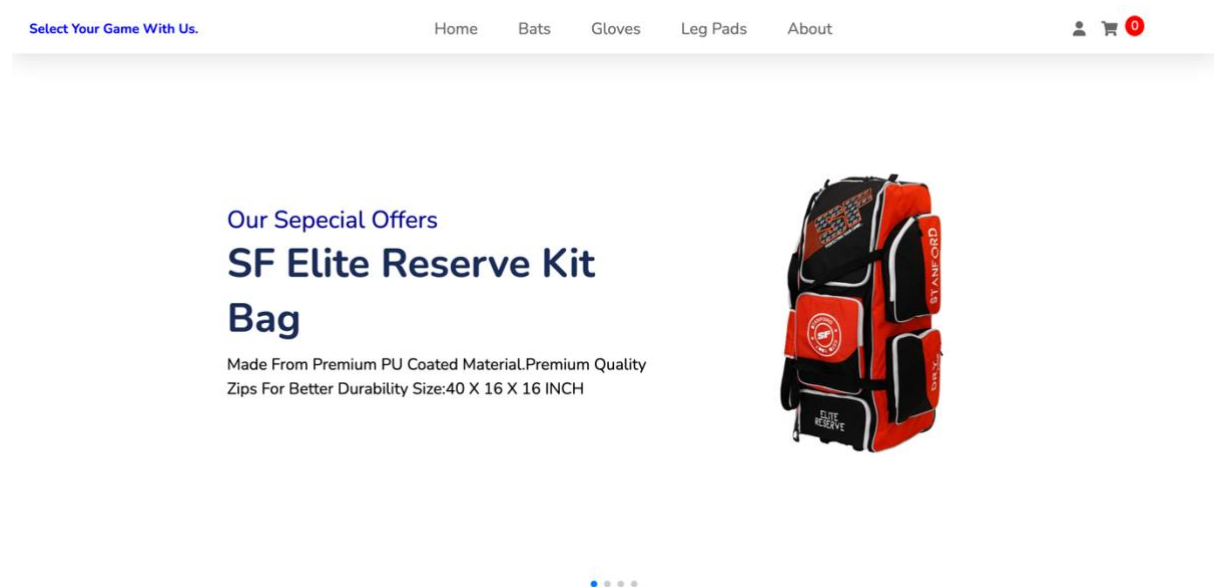
Cart Table: Contains details about cart, such as user ID, product ID and total.

Orders Table: Tracks order information, including order ID, user ID, product ID, and total amount.

HOME PAGE

The central page of our website is the home page, esigned to offer various functionalities for user interaction., allowing users seamless interaction. The primary objective of the user page is to deliver a user-friendly and easily manageable platform, ensuring a smooth experience for all.

Upon opening the website, the initial elements that welcoming us are the navbar and a swiper section with some of our special products. The swiper section is structured using HTML and CSS to organize and style its contents.



Crucially, the dynamic functionality of the swiper is orchestrated by the script.js, allowing seamless and infinite navigation through the website's offerings

```
var swiper = new Swiper(".home-slider", {
  spaceBetween: 30,
  centeredSlides: true,
  autoplay: {
    delay: 7500,
    disableOnInteraction: false,
  },
  pagination: {
    el: ".swiper-pagination",
    clickable: true,
  },
  loop: false,
});
```

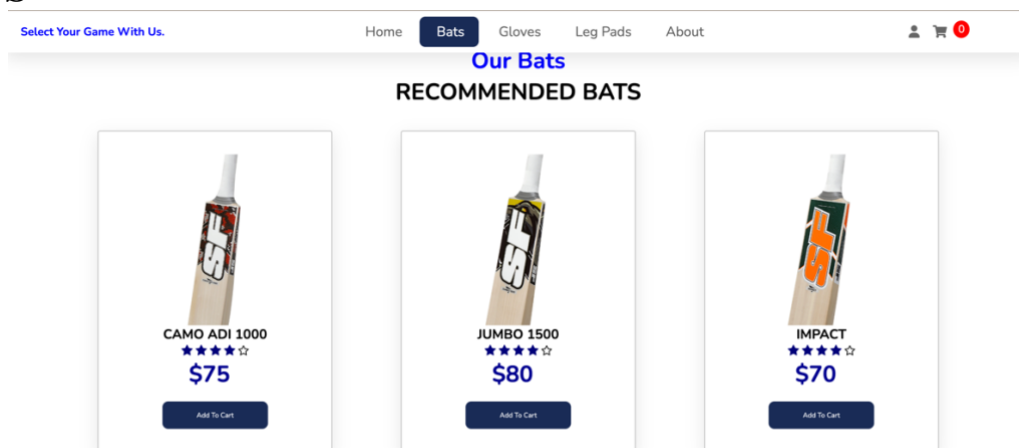
Products

Our products are thoughtfully categorized into distinct sections, each accessible through the navbar based on user preferences.

The categorization of products into distinct sections plays a pivotal role in organizing them by type. To achieve this, various PHP scripts are employed to retrieve data from the database, ensuring seamless integration and dynamic presentation of information.

CSS styling enhances the visual appeal of each section, while HTML is utilized to incorporate and highlight the unique features of our products.

BATS



```
<?php
require('conf.php');

$result = mysqli_query($conn, "SELECT * FROM `products` WHERE `product_type` = '1'");

if ($result) {
    // Display each product
    while ($row = mysqli_fetch_assoc($result)) {
        ?>
        <div class="box">
            " alt="">
            <h3><?php echo $row["name"]; ?></h3>
            <div class="stars">
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star-o"></i>
            </div>
            <span><?php echo $row["price"]; ?></span>
            <a class="btn add-to-cart" data-product-id="<?php echo $row["id"]; ?>">add to cart</a>
        </div>
        <?php
    }
} else {
    // Display an error message if the query fails
    echo 'Error: ' . mysqli_error($conn);
}

mysqli_close($conn);
?>
```

GLOVES

Our Gloves

RECOMMENDED GLOVES

PLATINUM
★★★★☆
\$39
[Add To Cart](#)

CAMO ADI 2
★★★★☆
\$40
[Add To Cart](#)

SAPPHIRE
★★★★☆
\$30
[Add To Cart](#)

```
<?php  
|     include_once("render_products2.php");  
?>
```

LEG PADS

Our Leg Pads

RECOMMENDED LEG PADS

TRENDY
★★★★☆
\$20
[Add To Cart](#)

POWER BOW
★★★★☆
\$52
[Add To Cart](#)

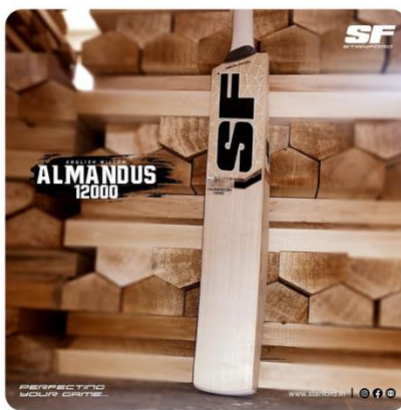
RANJILITE
★★★★☆
\$39
[Add To Cart](#)

```
<?php  
|     include_once("render_products3.php");  
?>
```

About Us

The concluding segment of our home page provides comprehensive details about us. Here, you can explore our secure and efficient 'Delivery Services,' ensuring swift and reliable deliveries. Additionally, our 24-hour customer services are readily available to assist you.

About Us WHY TO CHOOSE US?



Delivering All Around The World

Over The Years SF STANFORD Cricket, Manufacturing Cricket Equipment Of Very High Standard. SF STANFORD Is A Manufacturing Unit And Over Research, Development And Structured Feedback Comes From Investing Time And Money At Grass Root Levels Of The Game And Then Working All Over The World To Bring To You The Most Innovative And Exciting Products. SF STANFORD Philosophy Is To Use Innovative Technology, And Use Latest Raw Materials And Deep Knowledge About Choosing The Right Raw Materials For Our Cricket Equipment.



Free Delivery



Easy Payments



24/7 Service

Particularly some testimonials from our long-standing international players who have been loyal customers for over 5 years.

Customer's Review WHAT THEY SAY



Over The Years SF STANFORD Cricket, Manufacturing Cricket Equipment Of Very High Standard. SF STANFORD Is A Manufacturing Unit And Over Research, Development And Structured Feedback Comes From Investing Time And Money



Kusal Mendis



Over The Years SF STANFORD Cricket, Manufacturing Cricket Equipment Of Very High Standard. SF STANFORD Is A Manufacturing Unit And Over Research, Development And Structured Feedback Comes From Investing Time And Money



Rahmanullah Gurbaz



Over The Years SF STANFORD Cricket, Manufacturing Cricket Equipment Of Very High Standard. SF STANFORD Is A Manufacturing Unit And Over Research, Development And Structured Feedback Comes From Investing Time And Money

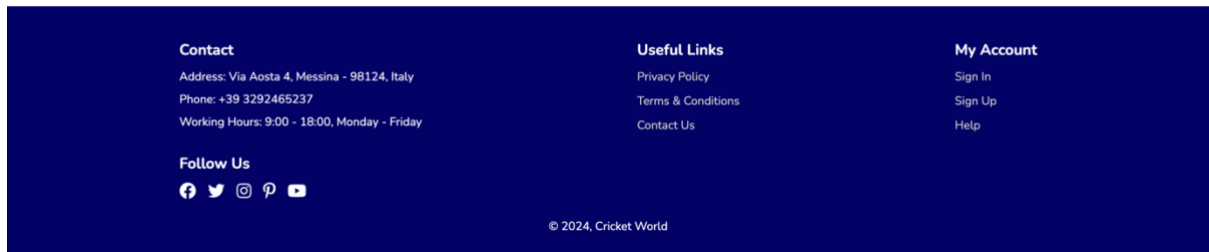


Dhananjaya De Silva

To structure and design this section, I have created distinct sections using HTML for features and CSS for styling, ensuring a visually appealing and informative presentation.

Footer

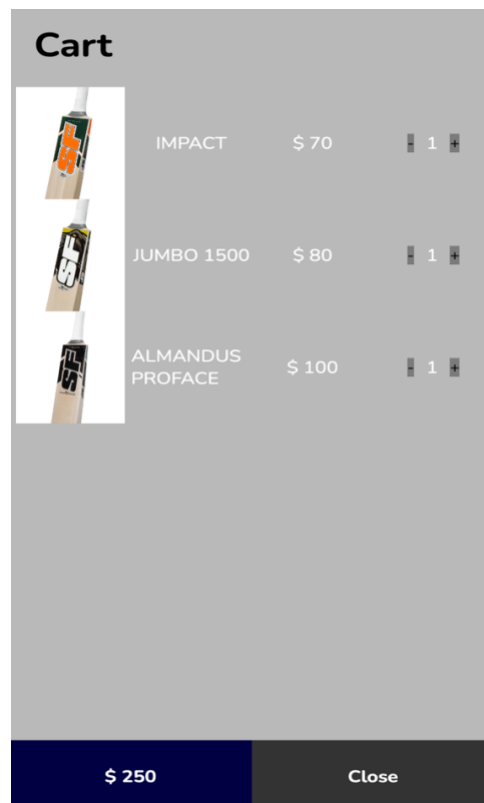
The implementation is based on HTML/CSS for structural elements. This design ensures swift access to critical links, contact information, and social media platforms. Furthermore, information about contact links.



Cart

Once our clients make decisions about our products, they can add them to the cart. But a user cannot add the same product to the cart more than once. However, the option to increase the quantity is available directly from the cart itself.

This functionality is made by the cart.js script, ensuring a good and user-friendly experience. Users can confidently manage their selections, increasing quantities as needed, with clarity about the products in their cart



```

if(item != null){
    let newDiv = document.createElement('li');
    newDiv.innerHTML = `
        <div></div>
        <div>${item.name}</div>
        <div>${item.price.toLocaleString()}</div>
        <div>
            <button class="update-cart" data-product-id="${item.product_id}" data-quantity="${+item.quantity - 1}"></button>
            <div class="count">${item.quantity}</div>
            <button class="update-cart" data-product-id="${item.product_id}" data-quantity="${+item.quantity + 1}"></button>
        </div>`;
    listCard.appendChild(newDiv);
}

```

Once a user adds products to the cart and decides to make a purchase, they can proceed by clicking on the total price. This action allows them to confirm the order.

Subsequently, all the information regarding the user's order and personal details is sent to the backend of our website. This process is facilitated by the checkout.php script. After checkout we are deleting the data from the cart.

```

<?php
session_start();

require_once("conf.php");

if(!isset($_SESSION["email"])) {
    throw new \Exception("No email found in session");
}

$email = $_SESSION["email"];
$sql = "SELECT * FROM user WHERE email = '{$email}'";
$result = mysqli_query($conn, $sql);

if($result) {
    $user_id = mysqli_fetch_row($result)[0];
}

if(!isset($user_id)) {
    throw new \Exception("Cant find user_id");
}

$sql = "SELECT cart.user_id, cart.pid, cart.quantity, products.price FROM cart JOIN products ON cart.pid=products.id WHERE user_id = {$user_id}";
$result = mysqli_query($conn, $sql);

if(!$result) {
    throw new \Exception("No items in cart");
}

while($row = mysqli_fetch_assoc($result)) {
    $product_id = $row["pid"];
    $quantity = $row["quantity"];
    $price=$row["price"];
    $total=$quantity*$price;

    if ($product_id !== null && $product_id !== "") {
        $sql1 = "INSERT INTO `order` (user_id, product_ids, total) VALUES ({$user_id}, '{$product_id}', {$total})";
        $result1 = mysqli_query($conn, $sql1);
        if(!$result1) {
            throw new \Exception("Could not create order");
        }
    }
}

// clear cart
$sql = "DELETE FROM cart WHERE user_id = {$user_id}";
$result = mysqli_query($conn, $sql);

if(!$result) {
    throw new \Exception("Couldnt clear cart");
}

// everything is good
echo json_encode(true);

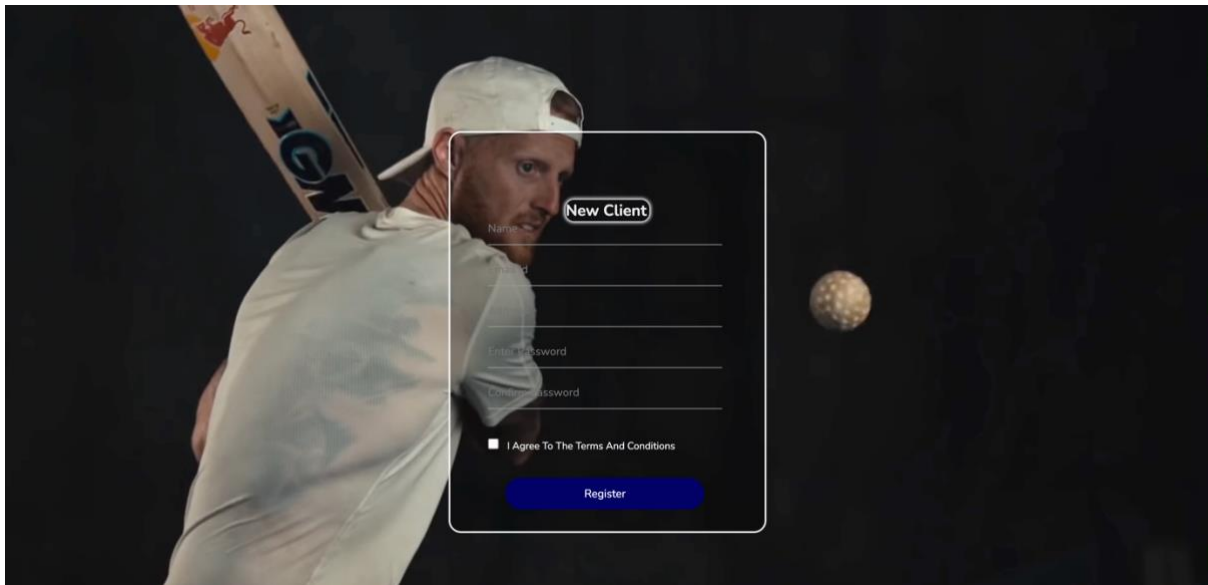
```

REGISTER AND LOGIN PAGE

Register Page

It allows users to create accounts by providing necessary information like email, name, address, and password.

Implementation utilises HTML for the form structure, CSS for styling.



Upon user completion of the required information, the data is checked for correctness and non-repetition. If deemed accurate, the information is securely pushed into the database. Ensuring robust security measures, we employ password hashing for each user. This cryptographic technique ensures that only the user possesses critical information about their own account.

```
if ($password == $c_password) {
    $hashedPassword = password_hash($password, PASSWORD_DEFAULT);

    $sql = "INSERT INTO `user` (`id`, `name`, `email`, `address`, `password`) VALUES (NULL, '$first_name', '$email', '$address', '$hashedPassword')";

    $query = "SELECT * FROM `user` WHERE email = '$email'";
    $result = mysqli_query($conn, $query);

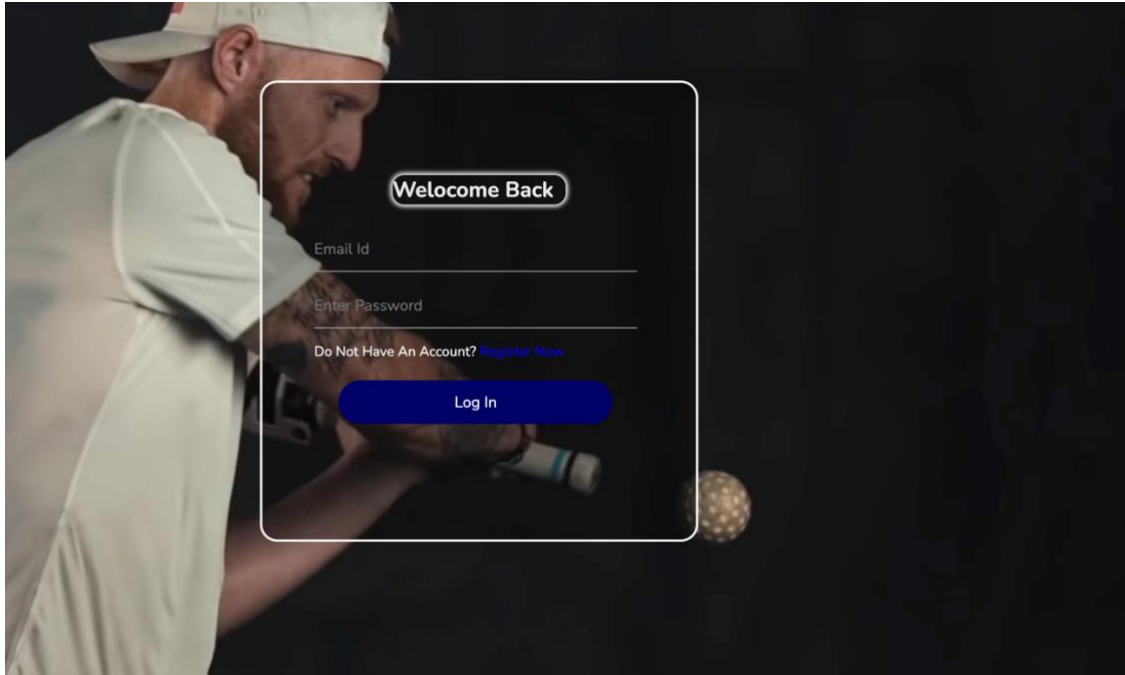
    if (mysqli_num_rows($result) == 1) {
        ?>
        <script>
        alert('User already exist!!!!');
        window.location.href = './login.html';
        </script><?php
        exit;
    }

    if (mysqli_query($conn, $sql)) {
        ?>
        <script>
        alert('Registration successful!');
        window.open('login.html');
        </script><?php
```

Login Page

It allows registered users to securely log in to their accounts.

Implementation is same as the register form. And from the backend side it will check in database and then it will give the response to the frontend



Upon logging into the account, users can securely manage their shipments. Additionally, the user button displays some details about the user. Whether a user completes a shipment or hops to do it later, they can log out by clicking the logout button within their account.



Email: Yoshan@Gmail.Com

Name: Yoshan

LOG OUT

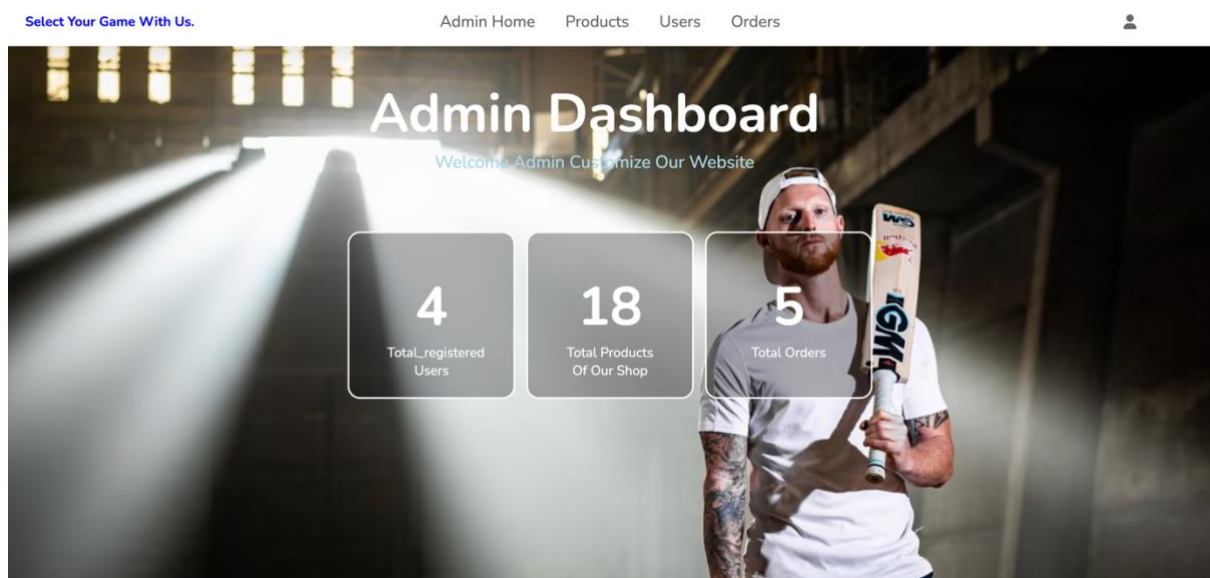
Administration

To ensure comprehensive security for our customers, we have implemented strict access controls for our administrators. These administrators play a crucial role in user management and maintaining control over our website

Admin Home Page

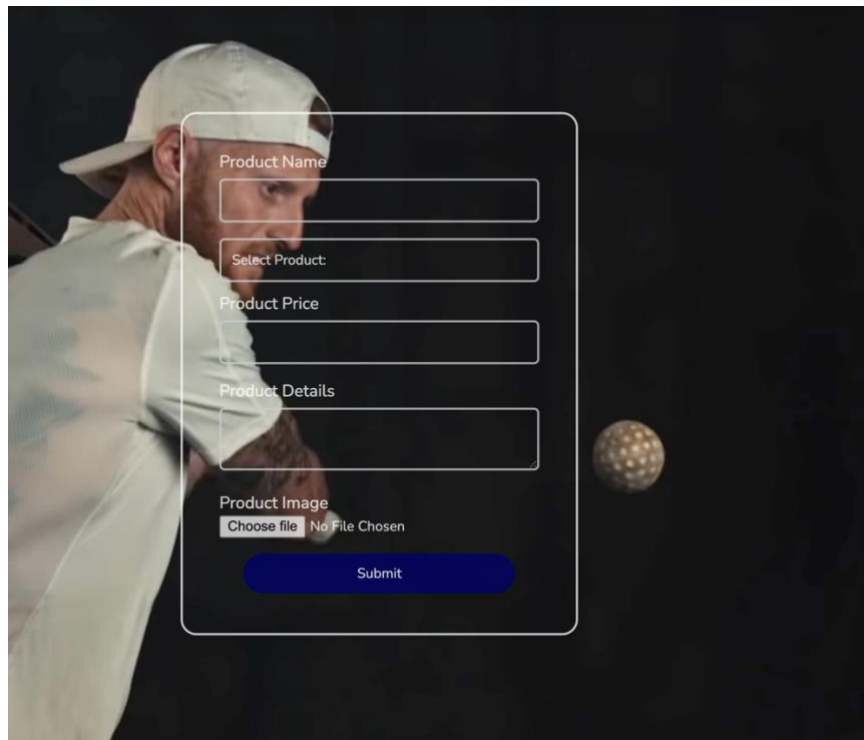
once the administrator got it to the admin home page, administrators can gain an overview of our website and user activities. This includes activities such as the total number of orders and the total number of users.

For styling, we utilized CSS, and for adding features, HTML was the primary tool. To display information about user activities, we directly retrieve data from the backend response.



Product Management

As equipment evolves and advances daily, our administrators continuously strive to bring high-quality products to our clients. They have the capability to add new products regularly.

A screenshot of a product management form overlaid on a background image of a cricket player. The form is a light gray rounded rectangle with a thin border. It contains several input fields: 'Product Name' (a text box), 'Select Product:' (a dropdown menu), 'Product Price' (a text box), 'Product Details' (a larger text box), and 'Product Image' (a file upload area with a 'Choose file' button and 'No File Chosen' text). At the bottom of the form is a blue 'Submit' button.

Product Name

Select Product:

Product Price

Product Details

Product Image

Choose file No File Chosen

Submit

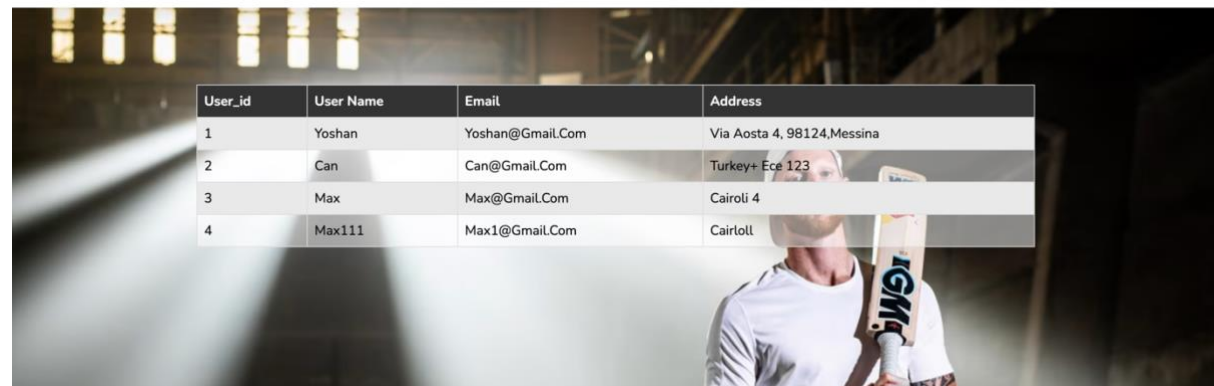
User Management

Displays a list of users based on different criteria like username or email and ecc..

Select Your Game With Us.

Admin Home Products Users Orders

| User_id | User Name | Email | Address |
|---------|-----------|------------------|----------------------------|
| 1 | Yoshan | Yoshan@Gmail.Com | Via Aosta 4, 98124.Messina |
| 2 | Can | Can@Gmail.Com | Turkey+ Ece 123 |
| 3 | Max | Max@Gmail.Com | Cairolı 4 |
| 4 | Max111 | Max1@Gmail.Com | Cairloll |

The background of the user management page is a blurred image of a cricket player in a white uniform, holding a bat, standing on a field at night under stadium lights.

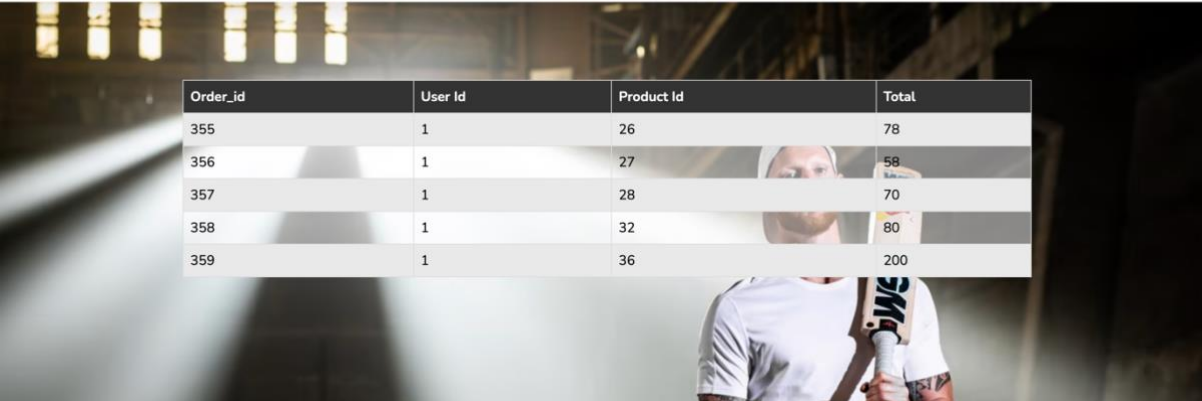
Order Management

Once every user confirms their orders, administrators can efficiently track and proceed with the delivery process.

Select Your Game With Us.

Admin Home Products Users **Orders**

| Order_id | User Id | Product Id | Total |
|----------|---------|------------|-------|
| 355 | 1 | 26 | 78 |
| 356 | 1 | 27 | 58 |
| 357 | 1 | 28 | 70 |
| 358 | 1 | 32 | 80 |
| 359 | 1 | 36 | 200 |



CONCLUSION

In conclusion, the development and implementation of the Cricket shop mark a significant revolution in the online cricketing experience. The strategic use of HTML, CSS, JavaScript, and PHP have user-friendly front-end but has also laid the foundation for a robust and dynamic back-end infrastructure.

Through Docker Compose, we have elevated our project's scalability and portability, facilitating collaboration and deployment. PHPMyAdmin, serving as the gateway to our database, has empowered us to manage and maintain our shop database efficiently.