Mini Project Report on

Milk Organic

Submitted in partial fulfillment of the requirement for award of the degree of

BACHELOR OF TECHNOLOGY

in

Computer Science and Engineering
(Artificial Intelligence)

Submitted By

NAME :- SHUBHAM RAJPOOT

ROLL NO. :- 2200681520087(3rd Sem)

NAME :- SAMEER MALIK

ROLL NO. :- 2200681520082(3rd Sem)

NAME :- NIKHIL KUMAR

ROLL NO. :- 2200681520067(3rd Sem)

Under the guidance of <Mr. Aamir Sohail>

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(AI&ML)
MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY, MEERUT
AFFILIATED TO
DR. A. P. J. ABDUL KALAM TECHNICAL UNIVERSITY,
LUCKNOW

JAN 2024

TABLE OF CONTENT:

Declaration

We hereby declare that the project titled - "MILK ORGANIC", which is being submitted as a project in the Department of Computer Science and Engineering (Artificial Intelligence) to Meerut Institute of Engineering and Technology, Meerut (U.P.) is an authentic record of our genuine work done under the guidance of "Mr. Aamir Sohail" of "CSE (AI)", Meerut Institute of Engineering and Technology, Meerut.

Date: 18-JAN-2024
Place: MIET, MEERUT

Name of the students
Shubham Rajpoot (2200681520087)
Sameer Malik (2200681520082)
Nikhil Kumar (2200681520067)

Certificate

This is to certify that the mini project report titled – "MILK ORGANIC" submitted by "Shubham Rajpoot (2200681520087) , Sameer Malik (2200681520082) , Nikhil Kumar (2200681520067) " has been carried out under the guidance of "Mr. Aamir Sohail" of "CSE (AI)", Meerut Institute of Engineering and Technology, Meerut. This project report is approved for a Mini Project in 3rd semester in CSE (AI) from Meerut Institute of Engineering and Technology, Meerut.

Supervisor: Mr. Aamir Sohail

Date: 18-JAN-2024

Acknowledgment

We express our sincere gratitude towards our guide “Mr. Aamir Sohail” of “CSE (AI)”, Meerut Institute of Engineering and Technology, Meerut for his valuable suggestions, guidance, and supervision throughout the project work. We would also like to thank our Head of Department “Dr. Rambir Singh” of “CSE (AI/AI&ML)” for his expert advice from time to time. We owe sincere thanks to all the faculty members of our department for their kind encouragement.

Date: 18-JAN-2024

Place: MIET, MEERUT

Name of the students

Shubham Rajpoot (2200681520087)
Sameer Malik (2200681520082)
Nikhil Kumar (2200681520067)

Abstract

Problem:

Adulterant milk is a serious issue in India, as it can c Adulterant milk is a serious issue in India, as it can cause various healthproblem and even deathause various health problems and even death. According to a national survey by FSSAI, only 12 out of 6,432 samples of milk were found to be adulterated with substances like hydrogen peroxide, detergent, urea, or neutralizers[1]. However, the survey also found that 5.7% of the samples had aflatoxin M1 residues, a chemical that comes from feed and fodder, which can cause liver damage and cancer. The presence of antibiotic residues was also detected in 77 samples, which can lead to antibiotic resistance and allergic reactions[2]. The states with the highest levels of adulteration and contamination

Proposed Solution:

This mini-project proposes a novel approach to ensure the delivery of pure organic milk by the distributers who are registered with us. Encouraging the use of quality milk products from certified and trusted sources and avoiding the purchase of loose or unpackaged milk. Developing and promoting simple and affordable methods to deliver the best quality milk for the future.

Methodology:

1. Users sign up for Milk Organic and become customers.
2. Customers open the websites, select the milk distributers, and order the food.
3. The website confirms the delivery location.
4. The delivery person receives the order and confirms it.
5. Local delivery boy confirms the pick-up and drop location of the order.
6. Delivery boy picks up the food from the distributers and delivers it to the customer.
7. Customer pays for the order through the websites or cash on delivery.
8. Customer rates the product and the delivery service.

Expected Outcomes:

- Improved health and nutrition, as pure milk is a rich source of protein, calcium, and other essential nutrients[12].
- Reduced risk of diseases and infections, as adulterated milk can contain harmful substances and bacteria that can cause diarrhea, food poisoning, kidney damage, liver damage, and cancer.
- Enhanced taste and quality, as pure milk has a natural flavor and texture that is not altered by additives or preservatives.
- Increased trust and satisfaction, as consumers can be assured that they are getting what they pay for and not being cheated or exploited by unscrupulous sellers.

Potential Applications:

- It can offer personalized recommendations and discounts to customers based on their preferences and buying habits, using AI and data analytics.
- It can provide the daily requirement of an individual because milk is a common food in every houses whether he/she is poor or rich.

Conclusion:

This mini-project proposes a promising approach to stop the growing problem of Adultrant milk in our country and aim to provide the best quality milk to all individual.

CHAPTER 1: Introduction:

Milk Organic is a online platforms that allow customers to order fresh milk and other dairy products from local farms or vendors and get them delivered to their doorstep. They are a convenient and reliable way to get the daily supply of milk and dairy products without going to the supermarket or the dairy shop. They also ensure the quality and freshness of the products by eliminating intermediaries and delivering them directly from the source.

This mini-project proposes a novel approach to ensure the delivery of pure organic milk by the distributers who are registered with us. Encouraging the use of quality milk products from certified and trusted sources and avoiding the purchase of loose or unpackaged milk. Developing and promoting simple and affordable methods to deliver the best quality milk for the future.

Milk delivery websites face various challenges such as managing the inventory of perishable products, complying with food safety standards, competing with traditional dairy shops, and retaining customer loyalty.

Milk Organic websites use user support to enable customers to view delivery routes, mark their orders as delivered, and receive real-time notifications at their location

WHY THIS PROBLEM IS CHOSEN?

There are many reasons why someone might choose to make a milk delivery website, such as:

- To provide convenience and reliability to customers who want to get fresh milk and dairy products delivered to their doorstep.
- To ensure the quality and freshness of the products by eliminating intermediaries and delivering them directly from the source.
- To tap into the growing market of hyperlocal delivery services that cater to the needs of urban consumers.
- To create a lucrative business opportunity by entering and growing in the dairy industry.
- To leverage the benefits of technology and innovation to offer personalized recommendations, discounts, and notifications to customers.

CHAPTER 2: METHODOLOGY & TOOLS

METHODOLOGY

System Design and Architecture

- Use a microservices-based architecture, where different services are responsible for different functionalities, such as user management, order management, payment processing, delivery tracking, etc.
- Communicate between services through an API gateway, which can also handle load balancing, routing, authentication, and authorization.
- Use different databases and technologies for the data layer, depending on the type and volume of data, such as SQL, NoSQL, or message brokers.
- Ensure high availability, consistency, and durability of the data, as well as support data analysis and reporting.
- Provide a user-friendly and responsive interface for the customers, the delivery partners, and the vendors, using mobile apps or web apps, or both.
- Integrate the interface with external services, such as maps, GPS, or payment gateways, to provide a seamless and convenient user experience.

Technology Stack Selection

We opted for multiple programming languages and frameworks for web development, such as JavaScript, SQL, CSS, or HTML.

In the future, We will Implement Latest Technology such as NODEJS for frontend, and Python for backend.

Development and Implementation

We are implementing the website's front-end components, focusing on user experience and intuitiveness.

Use a microservices-based architecture, where different services are responsible for different functionalities, such as user management, order management, payment processing, delivery tracking, etc.

Testing and Deployment

We will conduct rigorous testing to ensure the website's functionality, performance, and security.

We will deploy the website to a secure and scalable cloud platform, considering factors like traffic volume and data storage.

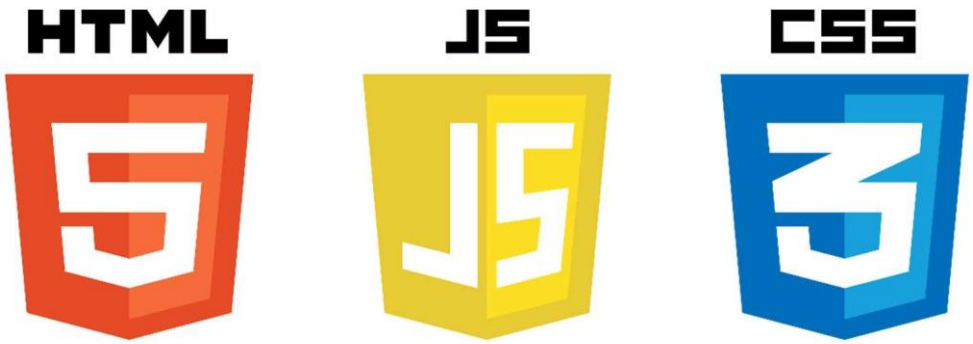
We will monitor website performance and user feedback to identify areas for improvement and potential bugs.

TOOLS

Front-end Development Tools

HTML, CSS, and JavaScript: These are the core web development languages used to create the website's structure, styling, and interactive elements.

JavaScript Frameworks: Frameworks like React, Angular, or Vue.js can streamline front-end development and provide reusable components for building a dynamic and user-friendly interface.



Back-end Development Tools

Databases: Databases like PostgreSQL, MySQL, or MongoDB can store and manage user data, profile information, and reporting record

CHAPTER 3:

SCOPE & OBJECTIVE

SCOPE:

The scope of making a milk delivery website is the extent and range of the project, such as the objectives, features, functionalities, and benefits of the website.

Managing the inventory of perishable products, complying with food safety standards, competing with traditional dairy shops, and retaining customer loyalty.

Adopting innovative technologies and strategies to overcome these challenges and provide better services to customers, such as mobile apps, AI, data analytics, GPS, etc.

Expanding the customer base and the product portfolio, offering personalized recommendations and discounts, and integrating with external services, such as maps, payment gateways, etc.

Exploring new markets and segments, such as rural areas, institutional customers, organic products, etc.

Objective:

To provide convenience and reliability to customers who want to get fresh milk and dairy products delivered to their doorstep.

To ensure the quality and freshness of the products by eliminating intermediaries and delivering them directly from the source.

To tap into the growing market of hyperlocal delivery services that cater to the needs of urban consumers.

To create a lucrative business opportunity by entering and growing in the dairy industry.

To leverage the benefits of technology and innovation to offer personalized recommendations, notifications to customers.

CHAPTER 4:

FRONT-END & BACK-END CODE

Front-End code:

Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Milk Organic</title>
    <link rel="shortcut icon" href="/Web
Development/FinalProject/logo.png" type="image/x-icon">
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css" integrity="sha512-
KfkfwYDsLkIlwQp6LFnl8zNdLGxu9YAA1QvwINks4PhcElQSvqcyVLLD9aMhXd13uQjoXt
EKNosOWaZqXgel0g==" crossorigin="anonymous" referrerpolicy="no-
referrer" />

</head>
<body>
```

```
<!-- HEADER -->
    <header>
        <div class="nav">
            <div>
                <p>Milk Organic</p>
            </div>
            <ul class="nav-bar">
                <li><a href="cart.html" >Cart</a></li>
                <li><a href="login.html">Log in</a></li>
                <li><a href="signup.html">Sign up</a></li>
            </ul>
        </div>
        <div class="head">
            <img class="logo" src="" alt="">
            <h3>Discover the Best Quality Milk in Meerut</h3>
            <div class="search">
                <div class="search-item">
                    <i class="fas fa-map-marker-alt"></i>
                    <p> Ashoka Rd, Hanu</p>
                </div>
                <div class="search-item">
                    <i class="fas fa-search"></i>
                    <input type="text" placeholder="Search for
Distributer">
                </div>
            </div>
        </div>
        <div class="header-image">
            <img src="./background.jpg" alt="">
        </div>
    </header>

    <!-- SECTION 0 -->
    <section class="section-0">
        <div class="section-0-container">
                <img src="./order.jpg" alt="">
             <a href="cart.html"> <button class="btn"> Order
Now</button></a>

        </div>
    </section>
```

```
<section class="heading">
        <div class="heading-1">
            <p> Our Top Distributer of the Week</p>
        </div>
    </section>
    <!-- Section 1 -->
    <section class="section-1">
        <div class="section-1-item">
            <div class="items-details">

                <!-- <p>Sample Person- 1</p> -->
                <p>Ramu</p>
                <p>Mob no. 90858499XX</p>
            </div>
            <img src="./2350960.jpg" alt="">
        </div>
        <div class="section-1-item">
            <div class="items-details">
                <!-- <p>Sample Person- 2</p> -->
                <p>Harish</p>
                <p>Mob no. 90858499XX</p>
            </div>
            <img src="./2350960.jpg" alt="">
        </div>
        <div class="section-1-item">
            <div class="items-details">
                <!-- <p>Sample Person- 3</p> -->
                <p>Girish</p>
                <p>Mob no. 90858499XX</p>
            </div>
            <img src="./2350960.jpg" alt="">
        </div>
        <div class="section-1-item">
            <div class="items-details">
                <!-- <p>Sample Person- 4</p> -->
                <p>Ramesh</p>
                <p>Mob no. 90858579XX</p>
            </div>
            <img src="./2350960.jpg" alt="">
        </div>
    </section>
```

```
 <!-- SECTION 2 -->
    <section class="section-2">
        <div class="section-2-heading">
            <p>Our Popular Branches</p>
        </div>
        <div class="section-2-container">
            <div class="section-2-items">
                <div class="section-2-item">
                    <p class="item-head">Indra-Nagar</p>
                    <p class="item-subhead">New Delhi, India</p>
                </div>
                <div class="section-2-item">
                    <p class="item-head">Subhash Chowk</p>
                    <p class="item-subhead">Gurugram, India</p>
                </div>
                <div class="section-2-item">
                    <p class="item-head">Botanical Garden</p>
                    <p class="item-subhead">Noida, India</p>
                </div>
            </div>
        </div>
    </section>
<!-- SECTION 3 -->
    <section class="section-3">
        <div class="section-3-container">
            <div class="section-3-img">
                <img src="./contactus.png" alt="">
            </div>
            <div class="section-3-content">
                <h1>You can join with us through various platform.</h1>
            </div>
        </div>
    </section>
 <!-- SECTION 4  -->
    <footer>
        <p>
            &copy;All copy-rights are resreved | Milk Organic
        </p>
        <code>

        </code>
    </footer>
</body>
</html>
```

Cart.html:

```
<html>
<head>
  <style>
    /* Add some style for the products and the cart */
    .head{
        padding-left: 50%;
        padding-top: 2px;
    }
    .product {
      display: flex;
      align-items: center;
      justify-content: space-between;
      margin: 10px;
      padding: 40px;
      border: 1px solid rgb(43, 18, 18);
    }

    .product img {
      width: 100px;
      height: 100px;
    }

    .product button {
      background-color: rgb(16, 140, 182);
      color: white;
      padding: 5px 10px;
      cursor: pointer;
    }

    .cart {
      margin: 10px;
      padding: 10px;
      border: 1px solid black;
    }

    .cart-item {
      display: flex;
      align-items: center;
      justify-content: space-between;
      margin: 10px;
    }

    .cart-item button {
      background-color: red;
      color: white;
      padding: 5px 10px;
      border:none;
      cursor: pointer;
    }
```

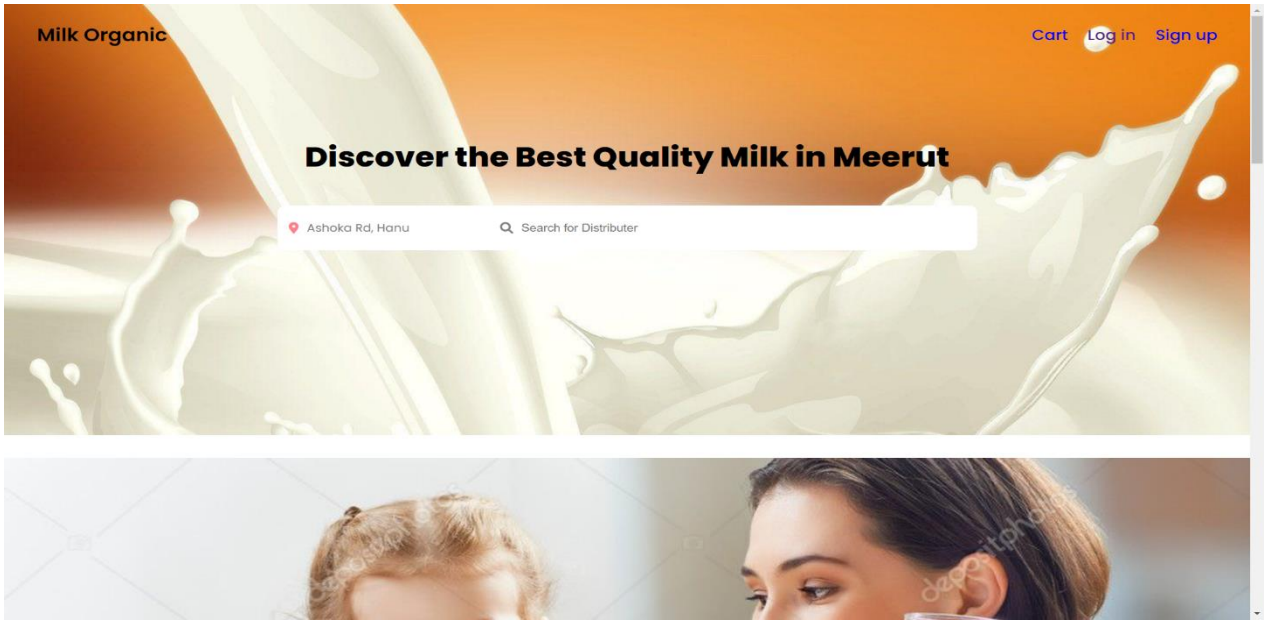
```
.total {
      display: flex;
      align-items: center;
      justify-content: space-between;
      margin: 10px;
      font-weight: 600;
    }
    .container .btn{
    top: 120%;
    left: 50%;
    transform: translate(-50%, -50%);
    background-color:coral;
    color:rgb(12, 1, 1);
    font-size: 25px;
    border:none;
    border-color: rgb(255, 255, 255);
    cursor: pointer;
    position: relative;
    }

  </style>
</head>
<body background='./7205.jpg'>
    <div class="head">
    <h1>CART</h1>
    </div>
  <div class="product" data-name="items" data-price="10">
    <img src="" alt="items">
    <div class="product-info">
      <h3>Pure Organic Milk</h3>
      <p> ₹ 60 /-</p>
      <button>Add to Cart</button>
    </div>
  </div>
  <div class="product" data-name="items" data-price="20">
    <img src="" alt="items">
    <div class="product-info">
      <h3>Pure Organic Ghee</h3>
      <p>₹ 500 /-</p>
      <button>Add to Cart</button>
    </div>
  </div>
  <div class="product" data-name="items" data-price="30">
    <img src="" alt="items">
    <div class="product-info">
      <h3>Pure Oganic Curd</h3>
      <p>₹ 40 /-</p>
      <button>Add to Cart</button>
    </div>
  </div>
```

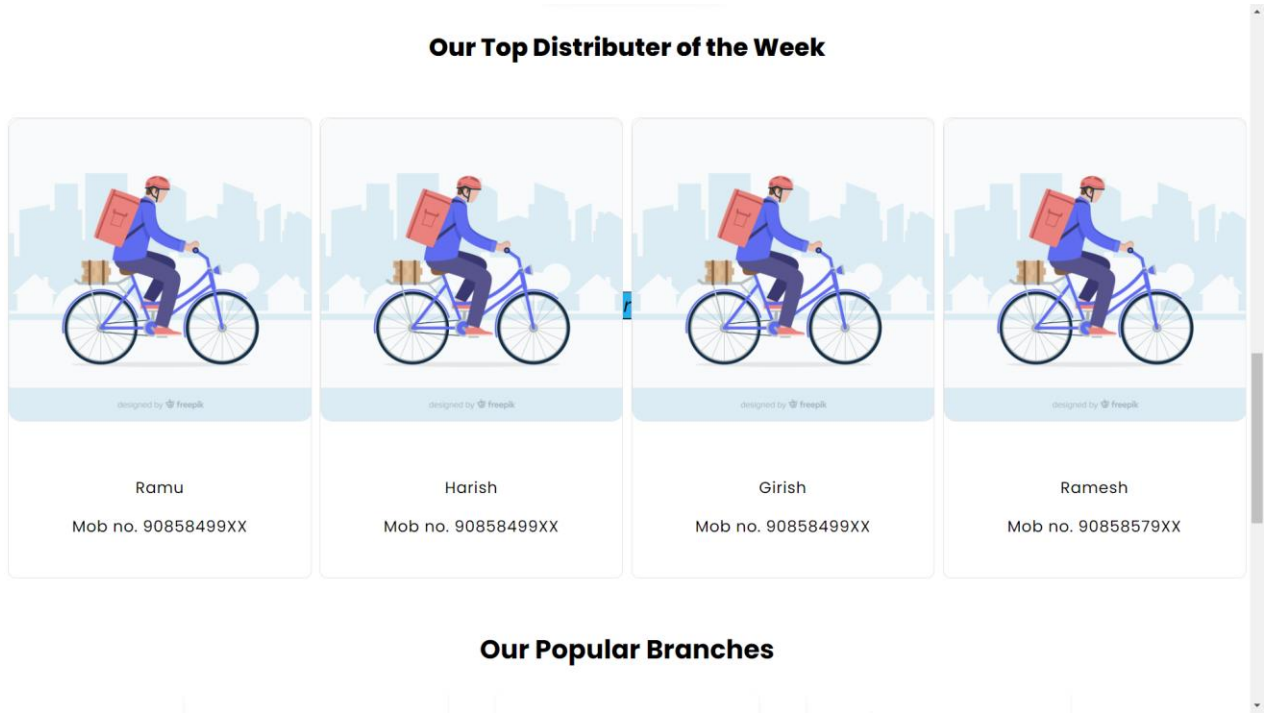
```
 <!-- Create a cart to show the added products and the total price -->
  <div class="cart">
    <h2>Cart</h2>
    <div class="cart-items"></div>
    <div class="total">Total: $<span class="total-price">0</span></div>
  <!-- </div>
  <div class="container">
    <button class="btn" >Place Order</button>
  </div> -->
  <script>
    // Get the products and the cart elements
    var products = document.getElementsByClassName("product");
    var cartItems = document.getElementsByClassName("cart-items")[0];
    var totalPrice = document.getElementsByClassName("total-price")[0];

    // Loop through the products and add a click event listener to each button
    for (var i = 0; i < products.length; i++) {
      var button = products[i].getElementsByClassName("product-
info")[0].getElementsByTagName("button")[0];
      button.addEventListener("click", addToCart);
    }

    // Define the function to add a product to the cart
    function addToCart(event) {
      // Get the button that was clicked
      var button = event.target;
      // Get the product element that contains the button
      var product = button.parentElement.parentElement;
      // Get the name, price and image of the product
      var name = product.dataset.name;
      var price = product.dataset.price;
 var image = product.getElementsByTagName("img")[0].src;
      // Create a new cart item element with the product information
      var cartItem = document.createElement("div");
      cartItem.classList.add("cart-item");
      cartItem.innerHTML = `
        <img src="${image}" alt="${name}">
        <div class="cart-item-info">
          <h4>${name}</h4>
          <p>$${price}</p>
          <button>Remove</button>
        </div>
// Add a click event listener to the remove button
      var removeButton = cartItem.getElementsByClassName("cart-item-
info")[0].getElementsByTagName("button")[0];
      removeButton.addEventListener("click", removeFromCart);
      // Append the cart item element to the cart items element
      cartItems.appendChild(cartItem);
      // Update the total price
      updateTotal();
    }
```

```
    // Define the function to remove a product from the cart
    function removeFromCart(event) {
      // Get the button that was clicked
      var button = event.target;
      // Get the cart item element that contains the button
      var cartItem = button.parentElement.parentElement;
      // Remove the cart item element from the cart items element
      cartItems.removeChild(cartItem);
      // Update the total price
      updateTotal();
    }

    // Define the function to update the total price of the cart
    function updateTotal() {
      // Initialize the total price to zero
      var total = 0;
      // Loop through the cart items and add the price of each item to the total
      var cartItems = document.getElementsByClassName("cart-item");
      for (var i = 0; i < cartItems.length; i++) {
        var price = cartItems[i].getElementsByClassName("cart-item-
info")[0].getElementsByTagName("p")[0].innerText;
        price = parseFloat(price.replace("$", ""));
        total += price;
      }
      // Display the total price with two decimal places
      totalPrice.innerText = total.toFixed(2);
    }
  </script>
</body>
</html>
```

OUTCOME:

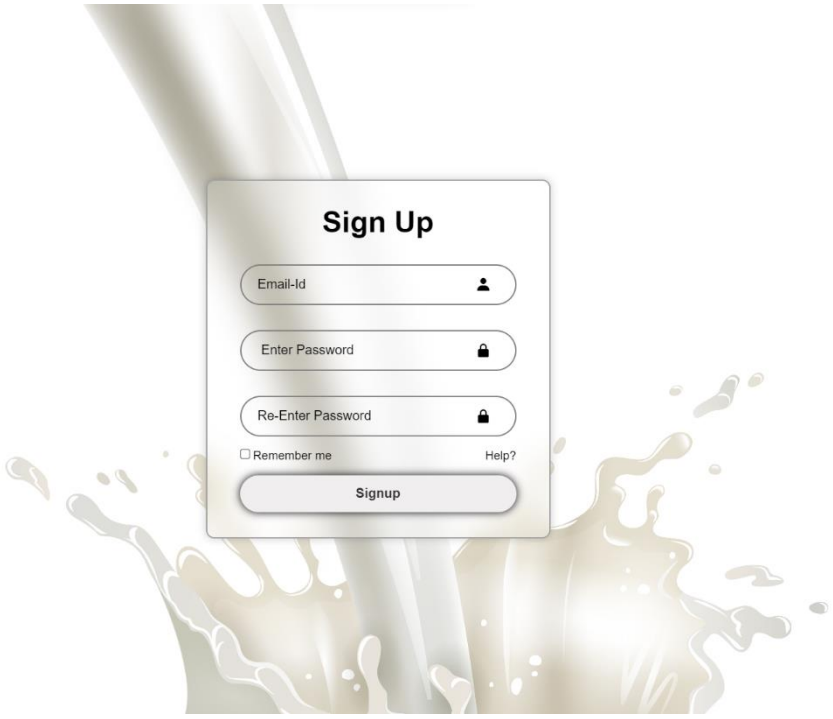
INDEX PAGE:





LOGIN PAGE:


Login
Username
Password
Remember me
Forgot Password
Login
Don't have an account? Register


Sign Up
Email-Id
Enter Password
Re-Enter Password
Remember me
Help?
Signup

References:

1. F. C. D. Da Silva, A. C. B. Garcia, and S. W. M. Siqueira, “A Systematic Literature Mapping on Profile Trustworthiness in Fake News Spread,” in 2022 IEEE 25th International Conference on Computer Supported Cooperative Work in Design, CSCWD 2022, 2022, pp. 275–279. doi: 10.1109/CSCWD54268.2022.9776232.

2. YOUTUBE (CODE WITH HARRY)

3. W3SCHOOL