

# **Online Grocery website**

**An Internship Report**  
**submitted in partial fulfillment of the requirements for the award of the degree of**  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE & ENGINEERING**

**Submitted by**  
**PAJJURI SARANYA DURGA**

**22761A05A9**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING**  
**(AUTONOMOUS)**

**Accredited by NAAC with 'A' Grade & NBA (Under Tier - I)**  
**An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution**  
**Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada**

**L.B. REDDY NAGAR, MYLAVARAM, NTR Dist., ANDHRA PRADESH – 521230**  
**2025-2026**



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(An Autonomous Institution since 2010)

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Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

## CERTIFICATE

This is to certify that internship work entitled **“Online Grocery Website”** the bonafide work done by **PAJJURI SARANYA DURGA (22761A05A9)** in partial fulfillment of the requirements for the award of the degree in **BACHELOR OF TECHNOLOGY** in Computer Science and Engineering from **LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM** during the year 2025-2026.

**D. Anil kumar**  
(Internship Coordinators)

**Dr. S. Nagarjuna Reddy**  
(Head of the Department)

**EXTERNAL EXAMINER**

## CERTIFICATE OF COMPLETION

# Certificate of Completion

## Web Development with HTML, CSS, and JavaScript INTERNSHIP

This is to certify that

**Pajjuri Saranya Durga**

has successfully completed a virtual internship in **Web Development with HTML, CSS, and JavaScript**  
from **01 June, 2025** to **16 July, 2025** at ApexPlanet Software Pvt. Ltd.



Certificate ID: **APSPL257377**

Scan the QR code to verify this certificate.

Founder & CEO,  
ApexPlanet Software Pvt. Ltd.



## ACKNOWLEDGEMENT

I express my thanks to the support given by management in completing my work. I also express my sincere gratitude & deep sense of respect to the Principal **Dr. K. Appa Rao** for making us available all the required assistance & for his support & inspiration to carry out this work in the Institute.

I also take the privilege to record my thanks to **Dr. S. Nagarjuna Reddy** Head of the Department of CSE whose encouragement, cooperation and valuable support crown our success.

I would like to thank **Mrs. B. Nirosha, Assistant Professor** who has been an inspiring guide and committed faculty and gave relief moral support in every situation of engineering career. The encouragement and support by him, especially in carrying out this project motivated us to complete this project.

I owe my acknowledgement to an equally long list of each people who helped me in this work. My sincere thanks to the Librarian of LBRCE who help me in getting many valuable books of actual editors.

I am thankful to the teaching and non-teaching staff of CSE department for their direct as well as indirect help in my work. I am elated to avail my selves to this opportunity to express my deep sense of gratitude to my parents.

PAJJURI SARANYA DURGA

22761A05A9

## **DECLARATION**

We hereby declare that the project report entitled “**Online Grocery Website**” is submitted to JNTUK is partial fulfillment of the requirement for the award of the degree of bachelor of technology (B.Tech) is an original work carried out by us. The matter embodied in this Internship report is a genuine work by the students and has not been submitted earlier to this university or any other university for award of any degree or diploma or prize.

**SUBMITTED BY**

**PAJJURI SARANYA DURGA**

## Executive Summary

This report highlights my 45-day internship experience at **ApexPlanet Software Pvt. Ltd.**, where I worked as a **Web Development Intern** focusing on **HTML, CSS, and JavaScript**. The internship was designed to provide a practical understanding of front-end technologies and how they are applied in real-world web development projects. It offered me the opportunity to strengthen my coding skills, gain exposure to responsive design concepts, and understand the workflow of professional software development.

During the internship, I was assigned a series of structured tasks that gradually enhanced my technical knowledge. I began by learning the basics of HTML, CSS, and JavaScript, then moved on to developing interactive and responsive web pages. I created several mini-projects, including a **to-do list app**, **interactive quiz**, and **image carousel**, applying modern styling techniques like **Flexbox**, **CSS Grid**, and **media queries**. These tasks helped me understand DOM manipulation, data persistence using local storage, and the importance of user-friendly design.

In the final phase, I worked on a **Grocery Website**, which served as the capstone project of my internship. The website was designed to provide an online shopping experience where users could browse various grocery items, view product details, and add items to their cart. It also included a **product listing page** with **filtering and sorting functionalities** that allowed users to organize items by categories and price range. Through this project, I applied concepts such as **responsive web design**, **DOM manipulation**, and **local storage** to enhance interactivity and usability. Developing this website helped me gain hands-on experience in creating a fully functional, user-friendly interface and deepened my understanding of front-end development best practices. Overall, this project was a significant milestone that strengthened my technical skills and confidence in building real-world web applications.

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# 1. Introduction

## Objective of the Internship:

The primary objective of my internship was to gain practical experience in web development and apply the theoretical knowledge acquired during my academic coursework. The goal was to enhance my skills in front-end technologies such as HTML, CSS, and JavaScript, and to understand the process of designing and developing responsive, interactive, and user-friendly web applications.

This internship aimed to bridge the gap between classroom learning and real-world implementation by allowing me to work on live projects under the guidance of experienced professionals. It helped me understand the software development lifecycle, from planning and design to coding, testing, and deployment. Through continuous feedback and iterative improvements, I learned to write clean, efficient, and reusable code, follow best coding practices, and manage projects with proper documentation and version control using GitHub.

## Company Overview:

ApexPlanet Software Pvt. Ltd. is a growing IT solutions company that focuses on delivering high-quality web development and application development services. The company is committed to providing innovative digital solutions tailored to client needs, ensuring scalability and user-friendly design. Alongside professional services, ApexPlanet also supports skill development by offering structured internship programs for students, helping them gain real-world exposure and hands-on experience in the software industry.

## Relevance to My Field:

As a **Computer Science and Engineering** student, this internship was directly aligned with my academic studies and future career goals. It provided me with an opportunity to practically apply the theoretical knowledge I had gained in subjects like Web Technologies and Programming. Working on real-time projects helped me understand how core programming concepts are used in developing interactive and visually appealing web applications.

During the internship, I strengthened my understanding of **HTML, CSS, and JavaScript**, and learned how to build responsive websites that adapt to different screen sizes using **Flexbox, CSS Grid**, and **media queries**. I also explored important front-end development aspects such as **DOM manipulation, form validation**, and **local storage**, which helped me see how front-end logic enhances user experience.

## **2. Internship Activities**

### **2.1 Role and Responsibilities**

As a Web Development Intern at ApexPlanet Software Pvt. Ltd., I was part of the front-end development team responsible for designing and developing interactive, responsive web pages. My primary responsibilities included:

- Developing and styling web pages using HTML and CSS to ensure a visually appealing layout.
- Adding interactivity and dynamic behavior to web pages using JavaScript.
- Creating responsive designs using Flexbox, CSS Grid, and media queries to ensure compatibility across devices.
- Testing and debugging webpages to ensure cross-browser functionality and performance optimization.
- Collaborating with mentors and other interns to discuss design ideas and project improvements.

Through these tasks, I gained hands-on experience with front-end technologies and improved my problem-solving and teamwork skills.

### **2.2 Projects Undertaken**

During my 45-day Web Development Internship at ApexPlanet Software Pvt. Ltd., I completed a series of structured tasks that progressively enhanced my understanding of HTML, CSS, and JavaScript. Each phase focused on applying theoretical knowledge to practical, real-world projects, ultimately leading to the successful completion of a fully functional web application.

#### **Task 1: Basics of Web Development (Days 1–9)**

In the first task, I learned the foundational concepts of HTML, CSS, and JavaScript. I created a simple webpage using basic HTML elements such as headings, paragraphs, images, and hyperlinks to understand webpage structure. I then applied CSS styling to enhance the visual appearance by adding colors, fonts, spacing, and layout formatting. Finally, I implemented basic JavaScript interactivity by adding a button that triggered an alert message. This task helped me build a strong foundation in how web pages are structured, styled, and made interactive.

### **Task 2: Intermediate HTML, CSS, and JavaScript (Days 10–18)**

The second task focused on improving my skills with forms, layouts, and dynamic content. I designed a Contact Form using various HTML input types and styled it using CSS for a clean and responsive layout. Through JavaScript, I implemented form validation to ensure proper email format and required fields. I also built responsive webpage layouts using Flexbox, CSS Grid, and media queries to make the design adaptable to different screen sizes. Another part of this task was creating a Dynamic To-Do List Gallery, where users could add or remove items interactively using JavaScript DOM manipulation.

### **Task 3: Advanced Styling and JavaScript (Days 19–27)**

Task 3 introduced more advanced concepts of styling and interactivity. I developed an Interactive Quiz using JavaScript to improve my ability to create multi-step dynamic components. I also learned how to use the Fetch API to retrieve real-time data from public APIs and display it dynamically on the webpage. This task strengthened my ability to create interactive, data-driven user interfaces.

### **Task 4: Full Project Implementation (Days 28–36)**

In Task 4, I began implementing full-scale web applications by combining HTML, CSS, and JavaScript. I created a multi-page Grocery Website structure including Home, Products, and Contact pages. The product listing page included filtering and sorting features to provide a smooth browsing experience. I also used Local Storage to store user preferences such as recently viewed products and display mode settings. The website was designed to be fully responsive with well-structured navigation, page sections, and interactive elements. This task helped me transition from small exercises to building a complete, functional web application.

### **Task 5: Final Project and Optimization (Days 37–45)**

The final task involved completing, optimizing, and testing the Grocery Website as the capstone project. I improved performance by minimizing CSS and JavaScript files, optimizing image sizes, and implementing lazy loading for product images. I also worked on debugging, refining UI elements, and enhancing user experience through smooth navigation and interactive animations. By the end of this task, the Grocery Website became a polished, production-ready project showcasing all the skills gained throughout the internship.

### 3. Skills and Knowledge Gained

During my internship, I developed a combination of **technical** and **soft skills** that significantly enhanced my overall professional growth.

#### Technical Skills:

- Gained proficiency in **HTML5**, **CSS3**, and **JavaScript** for designing and developing responsive, interactive web pages.
- Learned to use **Flexbox**, **CSS Grid**, and **media queries** to create mobile-friendly layouts.
- Understood **DOM manipulation**, **event handling**, and **form validation** using JavaScript.
- Implemented **Local Storage** for data persistence and worked with **APIs** to fetch and display real-time data.
- Acquired basic experience with **Git** and **GitHub** for version control and project submission.
- Gained insight into the **web development workflow**, including project planning, debugging, and optimization techniques.

#### Soft Skills:

- Improved **communication skills** through regular interactions with mentors and peers.
- Strengthened **time management** by completing tasks within given deadlines.
- Developed **teamwork and collaboration abilities** by participating in group discussions and following structured task guidelines.
- Enhanced **problem-solving and analytical thinking** while debugging and optimizing code.

### 4. Challenges and How I Overcame Them

During my internship, I encountered several challenges that tested my technical and problem-solving abilities. One major challenge was understanding JavaScript functionalities such as DOM manipulation, data handling, and event-driven programming, which were essential for adding interactivity to my web pages. Initially, it was difficult to debug errors and manage dynamic updates effectively.

To overcome these challenges, I referred to official documentation, practiced through small coding exercises, and reviewed online tutorials to strengthen my understanding. Guidance from mentors and discussions with fellow interns also helped me clarify complex concepts.

Another challenge was ensuring responsive design and browser compatibility for the Grocery Website. By experimenting with media queries, Flexbox, and CSS Grid, and testing the project on multiple devices and browsers, I was able to make the website more adaptive and visually consistent. These experiences improved my confidence in tackling real-world web development problems independently.

## **5. Conclusion**

My internship at ApexPlanet Software Pvt. Ltd. was a highly rewarding and transformative experience. It provided me with the opportunity to apply the theoretical knowledge I gained during my academic studies to real-world web development projects. Through hands-on practice, I strengthened my skills in HTML, CSS, and JavaScript, and learned how to design and develop responsive, user-friendly websites.

This internship also deepened my understanding of the software development life cycle, from planning and coding to testing and optimization. Working on tasks such as building the Grocery Website improved my technical proficiency and attention to detail. Moreover, collaborating with mentors and peers enhanced my communication, teamwork, and time management skills.

Overall, the internship served as a bridge between academic learning and industry practices, boosting my confidence to take on future challenges in the field of web development and helping me grow as an aspiring software engineer.

## **6. Recommendations**

For future interns at ApexPlanet Software Pvt. Ltd., I recommend regularly seeking feedback and clarifying doubts can greatly enhance understanding and improve project outcomes. Active participation helps in building confidence, teamwork, and adaptability in a professional environment.

It is also advisable to learn the fundamentals of web development tools such as HTML, CSS, JavaScript, and version control (Git and GitHub) before beginning the internship. Having this foundational knowledge allows interns to focus more on applying concepts and building real-time projects effectively. Staying consistent with practice and exploring the latest trends in front-end technologies will help future interns make the most of this valuable learning experience.

## **7. Learning outcome**

During my internship at ApexPlanet Software Pvt. Ltd., I achieved several key learning outcomes that contributed to both my personal and professional development:

### **Enhanced Technical Skills:**

I strengthened my knowledge of HTML5, CSS3, and JavaScript by developing interactive and responsive web pages. I also learned how to use Flexbox, CSS Grid, and media queries to ensure designs worked smoothly across various devices.

### **Industry-Specific Knowledge:**

The internship provided me with a clear understanding of the web development process, including project planning, UI/UX design, testing, and deployment. I also learned about the importance of writing clean, maintainable code and following industry best practices.

### **Problem-Solving and Analytical Skills:**

While working on projects like the to-do list app and product listing page, I faced several challenges related to logic implementation and debugging. Overcoming these issues improved my ability to analyze problems, find root causes, and apply efficient coding solutions.

### **Time Management and Prioritization:**

Balancing multiple tasks and meeting deadlines helped me learn how to manage time effectively. I developed the habit of organizing my work into smaller milestones to ensure consistent progress.

### **Improved Communication and Teamwork:**

Regular interactions with mentors and fellow interns enhanced my communication skills. Collaborating on design ideas and sharing feedback taught me how to work efficiently as part of a team.

### **Adaptability to Professional Work Environment:**

Working in a structured internship program exposed me to professional expectations, daily reporting, and feedback cycles. I learned to adapt quickly to new tools, workflows, and feedback to improve my performance.

### **Career Insights:**

This internship helped me identify my interest in front-end web development and gave me a deeper appreciation for how design and functionality combine to create effective digital experiences. It also motivated me to pursue future opportunities in the web and software development field..

## 8. Appendices:

```
<!DOCTYPE html>
<html>
<head>
  <title>Grocery store by saranya durga</title>
  <link rel="icon" type="images/icon" href="images/favicon.PNG">
  <!--code for font awesome cdn-->
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
  <!--code for font awesome cdn-->
  <!--code for linking css file-->
  <link rel="stylesheet" type="text/css" href="css/style.css">
  <!--code for linking css file-->
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/swiper@11/swiper-bundle.min.css"/>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <!--header section-->
  <header class="header">
    <a href="#" class="logo"> <i class="fa fa-shopping-basket" aria-hidden="true"></i>Groco</a>
  <nav class="navbar">
    <a href="#home">Home</a>
    <a href="#Features">Features</a>
    <a href="#Products">Products</a>
    <a href="#Categories">Categories</a>
    <a href="#Review">Review</a>
    <a href="#Blogs">Blogs</a>
    <b><a href="#Login">Login</a></b>
  </nav>
  <div class="icons">
    <div class="fa fa-bars" id="menu-btn"></div>
    <div class="fa fa-search" id="search-btn"></div>
    <div class="fa fa-shopping-cart" id="cart-btn"></div>
  </div>
  <form class="search-form">
    <input type="search" id="search-box" placeholder="Search Here.....">
    <label for="search-box" class="fa fa-search"></label>
```

```

</form>
<div class="shopping-cart">
  <div class="box">
    <i class="fa fa-trash"></i>
    
    <div class="content">
      <h3>Watermelon</h3>
      <span class="Price">60/-</span>
      <span class="Quantity">Qty:1</span>
    </div>
  </div>
  <div class="box">
    <i class="fa fa-trash"></i>
    
    <div class="content">
      <h3>Onion</h3>
      <span class="Price">50/-</span>
      <span class="Quantity">Qty:1</span>
    </div>
  </div>
  <div class="box">
    <i class="fa fa-trash"></i>
    
    <div class="content">
      <h3>Eggs</h3>
      <span class="Price">20/-</span>
      <span class="Quantity">Qty:1</span>
    </div>
  </div>
<div class="total"> total: 130/-</div>
<a href="#" class="btn">Checkout</a>
</div>
</header>
<!--header.section-->
<!--banner section-->
<section class="home" id="home">
  <div class="content">
    <h3><span>Fresh And Organic Products For You</span></h3>

```



```

    <p>Fresh Fruits and Vegetables are available here..
    Get your monthly groceries delivered at your door step and free delivery
    on orders above 500.</p>
</div>
</section>
<!--products section-->
<!--Blog Section-->
<section class="Blogs" id="Blogs">
    <h1 class="heading">Our<span>Blogs</span></h1>
    <div class="box-container">
        <div class="box">
            
            <div class="content">
                <div class="icons">
                    <a href="#"><i class="fa fa-user"></i> By User</a>
                    <a href="#"><i class="fa fa-calendar"></i> 1st Nov, 2023</a>
                </div>
                <h3>Navigating the World of Organic Grocery Shopping</h3>
                <p>Discover the world of organic groceries!
                From understanding labels to exploring health benefits
                and the environmental impact,we guide you through making informed choices</p>
                <a href="#" class="btn">Read More</a>
            </div>
        </div>
        <div class="box">
            
            <div class="content">
                <div class="icons">
                    <a href="#"><i class="fa fa-user"></i> By User</a>
                    <a href="#"><i class="fa fa-calendar"></i> 22 Nov, 2023</a>
                </div>
                <h3>Winter Wellness: Boosting Immunity with Seasonal Superfoods</h3>
                <p>Elevate your winter wellness with seasonal superfoods!
                Explore immune-boosting recipes, discover supplements and herbs, and
                stay hydrated with our curated selection of winter essentials, available on our online grocery
                store.</p>
                <a href="#" class="btn">Read More</a>
            </div>
        </div>
    </div>

```

```

</div>
<div class="box">
  
  <div class="content">
    <div class="icons">
      <a href="#"><i class="fa fa-user"></i> By User</a>
      <a href="#"><i class="fa fa-calendar"></i> 31 Nov, 2023</a>
    </div>
    <h3>Eco-Friendly Eating: Reducing Your Carbon Foodprint</h3>
    <p>Make a positive impact on the planet through eco-friendly eating!
      Learn about sustainable food choices, reduce food waste, and
      discover environmentally conscious products available on our online grocery store. Start your
      journey to a greener lifestyle today.</p>
    <a href="#" class="btn">Read More</a>
  </div>
</div>
</div>
</section>
<!--block section-->
<!--Footer section-->
<section class="Footer">
  <div class="box-container">
    <div class="box">
      <h3>Groco <i class="fa fa-shopping-basket"></i></h3>
      <p>Feel free to follow us nn our Social Media handlers
        All Links are given below.</p>

      <div class="share">
        <a href="#" class="fa fa-facebook"></a>
        <a href="#" class="fa fa-twitter"></a>
        <a href="#" class="fa fa-instagram"></a>
        <a href="#" class="fa fa-linkedin"></a>
      </div>
    </div>
  </div>
  <script src="https://cdn.jsdelivr.net/npm/swiper@11/swiper-bundle.min.js"></script>
  <script src="js/script.js"></script>
</body>
</html>

```

Screenshots:

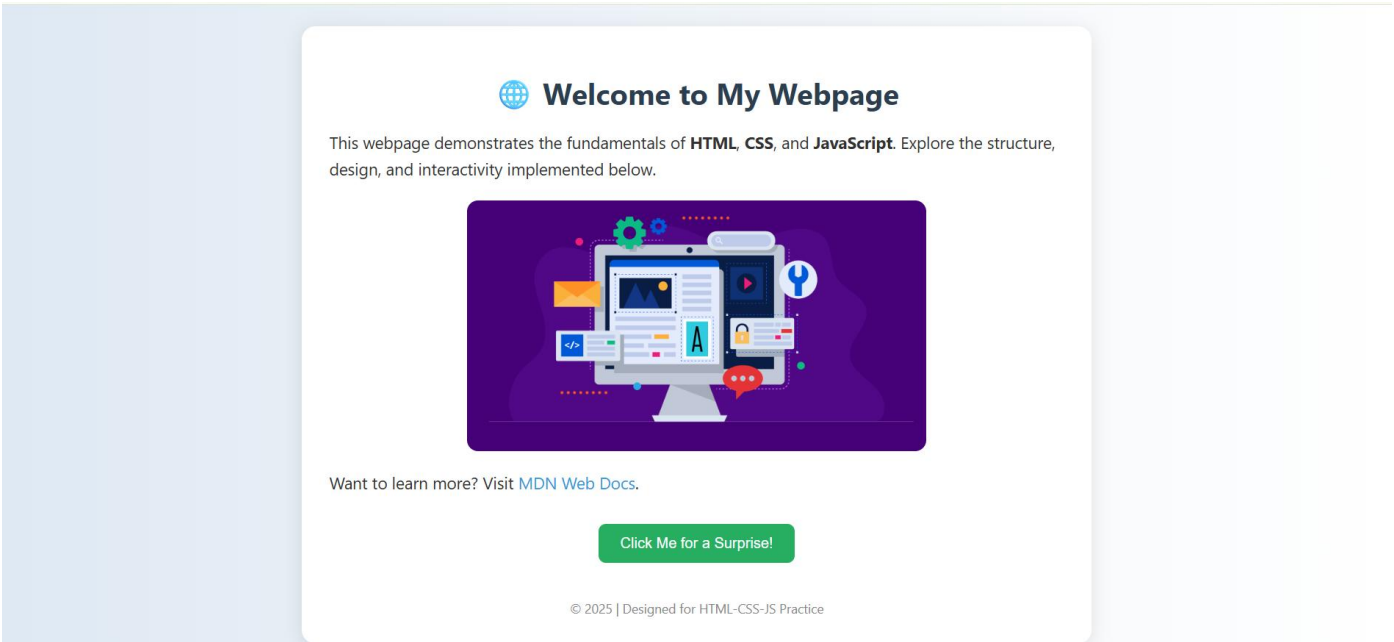


Fig1: Task1

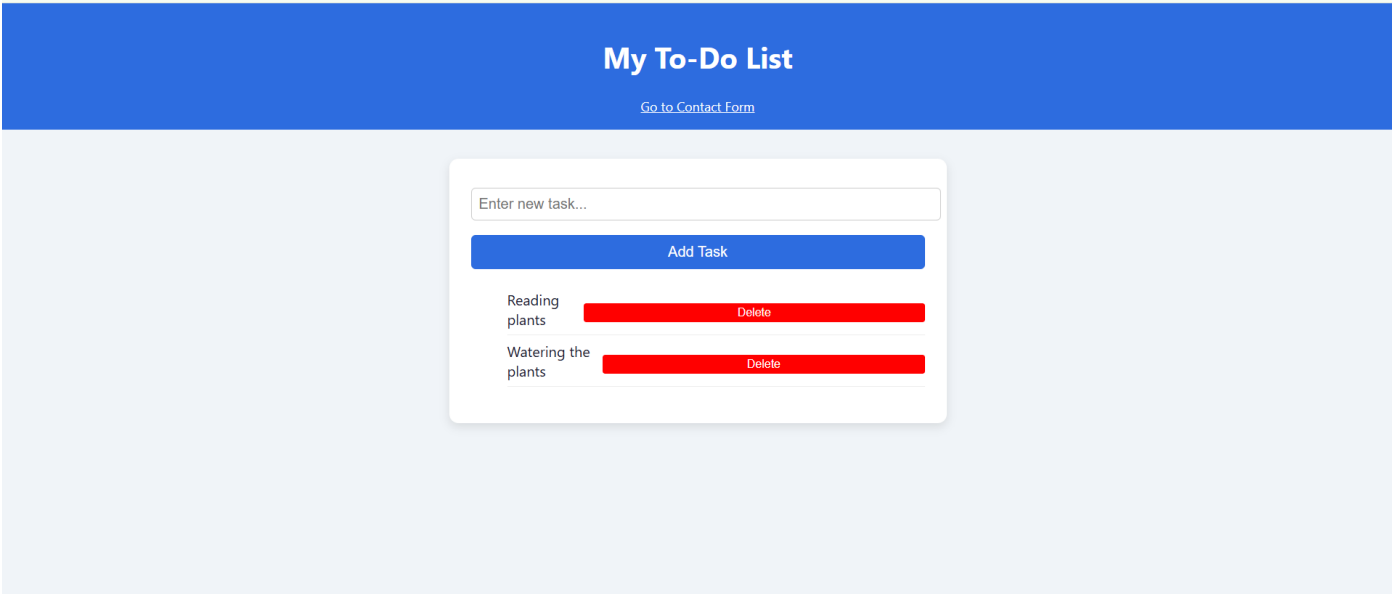


Fig2.1: Task2

Thanks cherry, your message has been sent! OK

[Go To To-Do List](#)

### Contact Form

Name:

Email:

Message:

Fig2.2:Task2

### Programming Quiz

1. Which language is used for web development?

☐ Python

☐ JavaScript

☐ Java

2. What does HTML stand for?

3. Select a backend language:

4. What does CSS stand for?

5. Which one is a JavaScript framework?

☐ Flask

☐ React

☐ Laravel

---

### Random Programming Joke

A programmer puts two glasses on his bedside table before going to sleep. A full one, in case he gets thirsty, and an empty one, in case he doesn't.

Fig3 : Task3

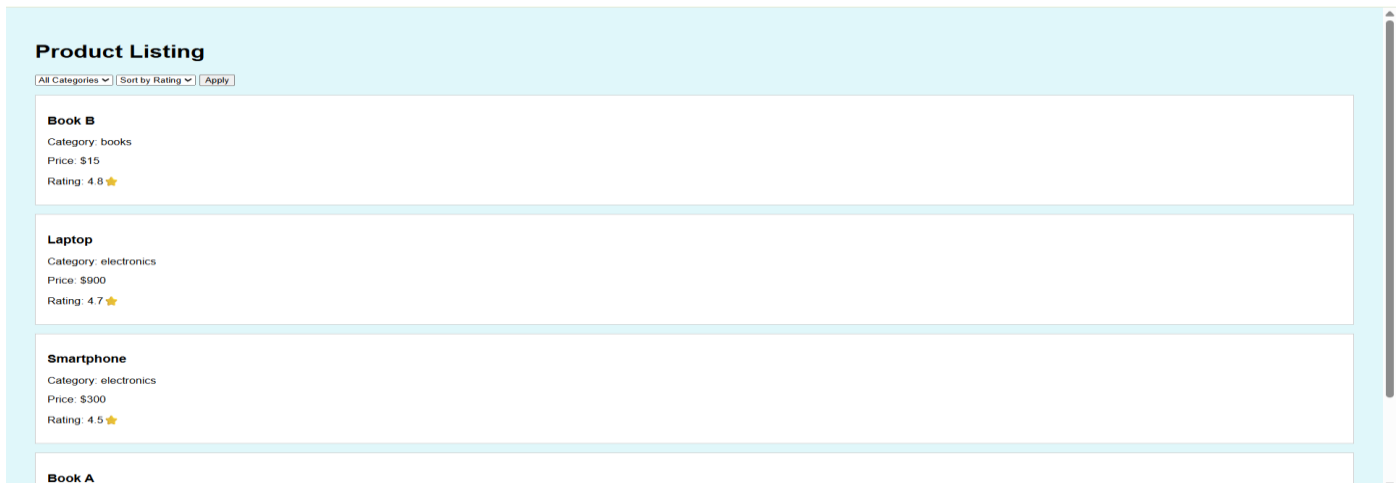


Fig4: Task4

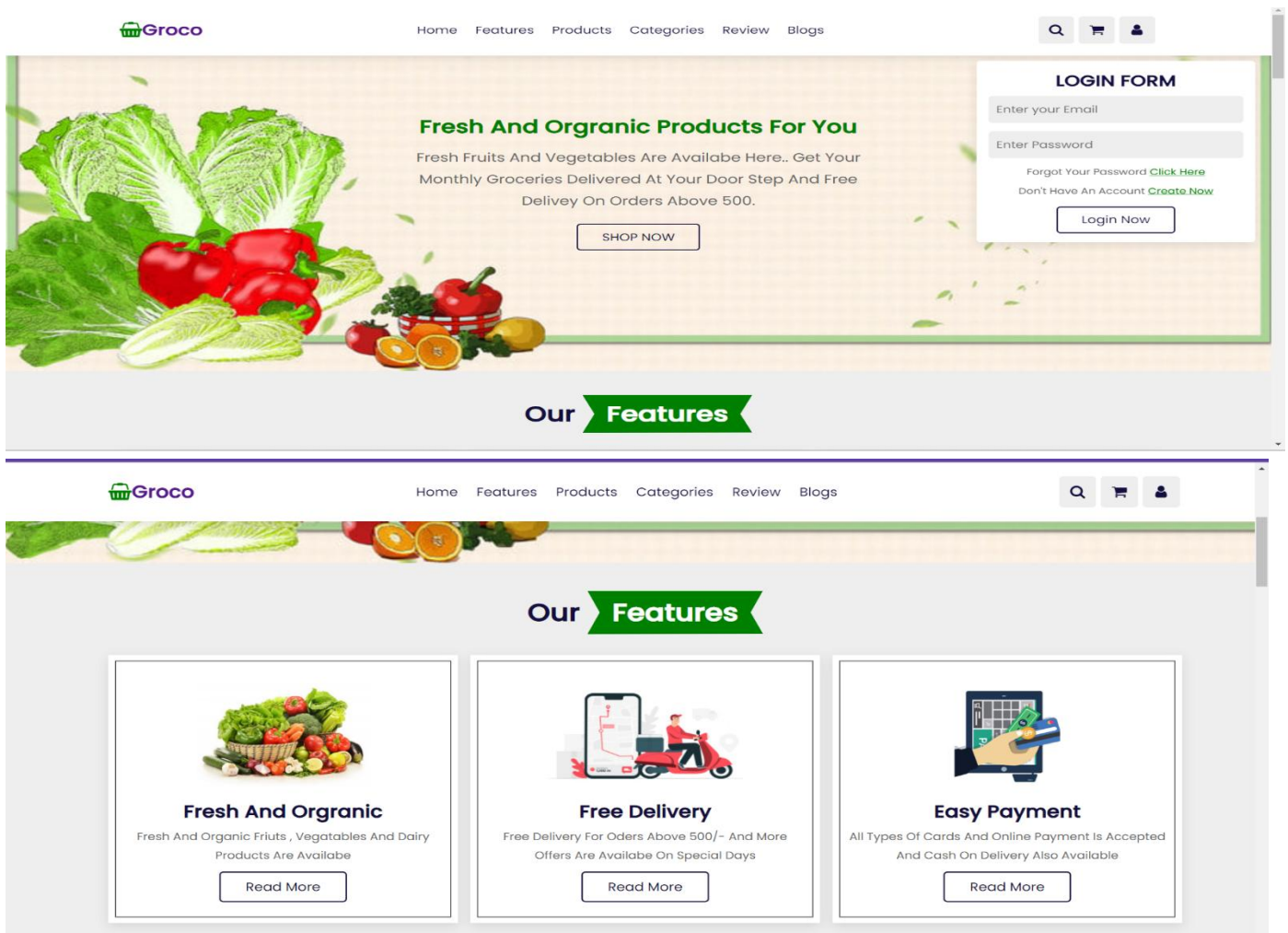


Fig5.1: Task5

## Product Categories



### Vegetables

Upto 45% Off

[Shop Now](#)


### Fruits

Upto 50% Off

[Shop Now](#)


### Dairy Products

Upto 45% Off

[Shop Now](#)


### Fresh Meat

Upto 40% Off

[Shop Now](#)

## Our Blogs



By User

1st Nov, 2023

### Navigating The World Of Organic Grocery Shopping

Discover The World Of Organic Groceries! From Understanding Labels To Exploring Health Benefits And The Environmental Impact, We Guide You Through Making Informed Choices



By User

22 Nov, 2023

### Winter Wellness: Boosting Immunity With Seasonal Superfoods

Elevate Your Winter Wellness With Seasonal Superfoods! Explore Immune-Boosting Recipes, Discover Supplements And Herbs And Stay



By User

31 Nov, 2023

### Eco-Friendly Eating: Reducing Your Carbon Footprint

Make A Positive Impact On The Planet Through Eco-Friendly Eating! Learn About Sustainable Food Choices, Reduce Food Waste, And Discover Environmentally Conscious Products Available On

Fig5.2: Task5

## 9. References

- W3Schools. (2024). HTML, CSS, and JavaScript Tutorials. Retrieved from <https://www.w3schools.com>
- FreeCodeCamp. (2024). Responsive Web Design and Front-End Development Resources. Retrieved from <https://www.freecodecamp.org>
- GeeksforGeeks. (2024). JavaScript and Web Development Tutorials. Retrieved from <https://www.geeksforgeeks.org>
- Stack Overflow. (2024). Community Discussions on Front-End Development. Retrieved from <https://stackoverflow.com>