

A Project Report

on

Groot Tech

*Submitted in partial fulfilment for the
award of the degree*

Bachelor of Technology

by

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21CS002378

Submitted to



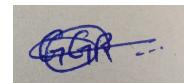
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DECLARATION

I Gudla Gowtham Reddy, a student of B.Tech.(CSE), hereby declare that the project titled “GROOT TECH” which is submitted by me to the Department of Computer Science & Engineering, School of Engineering, Sir Padampat Singhania University, Udaipur, in partial fulfilment of the requirement for the award of the degree of Bachelor of Technology, has not been previously formed the basis for the award of any degree, diploma or other similar title or recognition.

Name and Signature of Student: Gudla Gowtham Reddy



Udaipur

Date: 17/04/2023

CERTIFICATE

This is to certify that the project entitled ‘GROOT TECH’ being submitted by Gudla Gowtham Reddy, in partial fulfilment of the requirement for the award of Bachelor of Technology, has been carried out under my supervision and guidance.

The matter embodied in this report has not been submitted, in part or in full, to any other university or institute for the award of any degree, diploma or certificate.

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Gudla Gowtham Reddy
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ABSTRACT

Groot Tech Is a Responsive Website Offering Detailed Information and Guides on Various Electronic Devices, Including Laptops, Mobiles, Cameras, and Headphones. Unlike Typical E-Commerce Sites, Groot Tech Does Not Have any Buying Options but Provides Users With the Opportunity To Compare Products Side-by-Side To Help Them Make Informed Purchasing Decisions.

The Website Is Designed To Be Responsive, Ensuring That Users Can Access its Content From any Device Without Compromising the User Experience. Furthermore, the Site's Clean and Simple Interface Makes It Easy for Users to Quickly Navigate and Find the Information They Need.

In Addition to Product Comparisons, Groot Tech Also Features a Review Section Where Users Can Leave Feedback on Their Experiences With Various Devices. This Feature Helps Other Users Make Informed Decisions and Provides Valuable Feedback to Manufacturers.

Overall, Groot Tech Is a User-Friendly Website Offering Valuable Information and Resources for Electronic Device Enthusiasts, Without the Pressure To Purchase.

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LIST OF ABBRIBIATIONS

| ABBREVIATION | DESCRIPTION |
|---------------------|-----------------------------|
| CPU | Central Processing Unit |
| ALU | Arithmetic and Logical Unit |

CHAPTER 1

INTRODUCTION

The rapid advancement of technology has transformed the way we live, work, and communicate. With each passing year, we witness the release of innovative devices that revolutionize our lives in ways we never thought possible. Laptops, mobile phones, cameras, headphones, and other electronic devices have become integral parts of our lives, allowing us to stay connected and informed, and to accomplish tasks with ease.

However, the abundance of choices can often make it difficult for consumers to select the best device for their needs. With so many products on the market, it can be overwhelming to navigate the different specifications, features, and price points. This is where Groot Tech comes in.

Groot Tech is a website that provides comprehensive information on a range of electronic devices. Our goal is to help consumers make informed decisions when it comes to purchasing electronic devices by providing detailed product comparisons, user reviews, and guides.

In this report, we will provide an overview of Groot Tech and the services we offer. We will begin by discussing the need for a website like Groot Tech in today's electronic marketplace and how we aim to fill this need. We will highlight the challenges faced by consumers when it comes to selecting the right electronic device, and how our website can help.

We will then provide an in-depth look at the products and services offered by Groot Tech. Our website covers a wide range of electronic devices, including laptops, mobile phones, cameras, headphones, and other popular gadgets. We will discuss the various features and specifications that we cover for each device, and how we compile our product comparisons and user reviews.

Next, we will discuss the structure of our website and how users can navigate our content. Our website is designed with a user-friendly interface that ensures a seamless user experience across

all devices. We will highlight the features of our responsive design, including the use of clear and concise language, interactive charts, and easy-to-navigate pages.

We will also discuss the organization of our content, including our product categories and search functionality. We have created a user-friendly interface that allows users to quickly find the information they need, whether they are looking for a specific device or seeking advice on how to choose the best product for their needs.

In addition to discussing the features of our website, we will also provide an overview of the benefits of using Groot Tech when making purchasing decisions for electronic devices. We will highlight the value of our detailed product comparisons, user reviews, and guides, and how they can help consumers make informed decisions.

Finally, we will conclude the report by discussing the future of Groot Tech and our plans for expansion. We will highlight the areas in which we plan to expand our coverage and the new services that we plan to introduce to our users.

In conclusion, this report aims to provide a comprehensive overview of Groot Tech and the services we offer. By the end of this report, readers should have a clear understanding of the benefits of using Groot Tech when it comes to making informed decisions about electronic devices, as well as our plans for the future. We hope that Groot Tech can continue to serve as a valuable resource for consumers seeking reliable and trustworthy information about electronic devices.

CHAPTER 2

LITERATURE SURVEY

2.1 Contextual Overview

The Contextual Overview section sets the stage for the literature review by providing context and background on the importance of informed decision-making in the purchasing of electronic devices. With the rise of e-commerce, consumers are increasingly reliant on online sources to make purchasing decisions. Therefore, it is crucial that these sources provide accurate and unbiased information to aid in the decision-making process. This section should briefly introduce the importance of the topic and the purpose of the literature review.

2.2 Existing Research

2.2.1 The Role of Information in Consumer Decision-Making

Research has consistently shown that accurate and comprehensive information is crucial for consumers when making purchasing decisions. This subsection should provide evidence from previous studies that demonstrate the importance of reliable information in consumer decision-making. For example, research has shown that access to unbiased and reliable information improves consumer satisfaction and reduces product returns. The subsection should highlight the key findings and insights from these studies.

2.2.2 The Limitations of Current Information Sources

Despite the importance of reliable information, there are limitations to the accuracy and comprehensiveness of existing information sources. This subsection should review current websites and sources of information for electronic devices, such as CNET, and identify potential biases and limitations in the information provided. For example, some websites may be sponsored by specific manufacturers, which could affect the accuracy and reliability of the information provided. This section should summarize the key limitations and issues with current information sources.

2.3 Groot Tech's Approach

2.3.1 Methodology Overview

Groot Tech employs a rigorous methodology to ensure that the information presented is comprehensive, unbiased, and reliable. This subsection should describe the methodology used by Groot Tech to gather information and provide insights into electronic devices. For example, Groot Tech's methodology may include detailed research and analysis of each device, comparison to similar products, and collection of user reviews from multiple sources. This section should provide a detailed description of the methodology and the specific steps involved.

2.3.2 Benefits of Unbiased and Accurate Information

By providing unbiased and accurate information, Groot Tech aims to enhance consumer trust and satisfaction. This subsection should describe the benefits of unbiased and accurate information for consumers, such as reducing the likelihood of product returns and improving consumer confidence in the purchasing process. The subsection should also describe the benefits of reliable information for companies, such as increased customer loyalty and improved brand reputation.

2.4 Conclusion

In conclusion, the literature review highlights the crucial role of accurate and unbiased information in consumer decision-making for electronic devices. Despite the increasing reliance on online sources, there are limitations to the accuracy and comprehensiveness of existing information sources. Groot Tech's rigorous methodology and approach to providing unbiased and reliable information can help enhance consumer trust and satisfaction in the purchasing process. By providing consumers with comprehensive and unbiased information, Groot Tech aims to improve customer satisfaction and reduce the likelihood of product returns. Overall, the literature review emphasizes the importance of reliable information and provides a framework for future research in this area.

CHAPTER 3

SOFTWARE REQUIREMENT ANALYSIS

3.1 Introduction & Problem

Groot Tech's website aims to provide users with information about the best laptops, mobiles, cameras, headphones, and related guides, allowing them to compare products and provide reviews. The software requirement analysis will define the problem, identify the software and hardware requirements, and define the modules and their functionalities to ensure the successful development and deployment of the website.

The primary problem that the Groot Tech website aims to address is the difficulty users face when trying to choose the best products in a crowded and competitive market. The website will provide users with a centralized location to access detailed information about different products and compare them side-by-side to make an informed purchase decision.

3.2 Software and Hardware Requirements

3.2.1 Software Requirements:

- Web browsers (e.g. Google Chrome, Mozilla Firefox, Safari)
- Operating System (e.g. Windows 10, MacOS, Linux)
- Antivirus software (e.g. Norton, McAfee, Avast)
- Office software (e.g. Microsoft Office, Google Suite)

3.2.2 Hardware Requirements:

- Processor: Intel Core i3 or higher, any processor
- RAM: 8GB or more
- Storage: Solid State Drive (SSD) with a capacity of at least 256GB
- Graphics Card: Dedicated graphics card with a minimum of 2GB video RAM
- Display: Full HD (1920 x 1080) resolution or higher

These software and hardware requirements are necessary for users to access and use the laptop section of the Groot Tech website efficiently. Meeting these requirements ensures that the user

has a seamless experience on the website without any performance issues or compatibility problems.

3.3 Modules and their Functionalities

The Groot Tech website will be divided into the following modules, each with its functionality:

- **Home Module:** This module will display the latest and most popular products and guides on the homepage.
- **Product Module:** This module will provide users with detailed information about specific products, including specifications, features, user reviews, and ratings.
- **Comparison Module:** This module will allow users to compare multiple products side-by-side to make an informed purchase decision.
- **Review Module:** This module will allow users to leave reviews and ratings for different products.
- **Guide Module:** This module will provide users with detailed guides and tutorials on how to use different products and troubleshoot common issues.
- **Contact Module:** This section will provide contact details for visitors to get in touch with the website owners for any queries or support.

In conclusion, a comprehensive software requirement analysis is necessary for the development of a responsive and user-friendly website like Groot Tech. The software and hardware requirements outlined in this report, along with the defined modules and their functionalities, will help ensure that the website provides an exceptional user experience to its visitors.

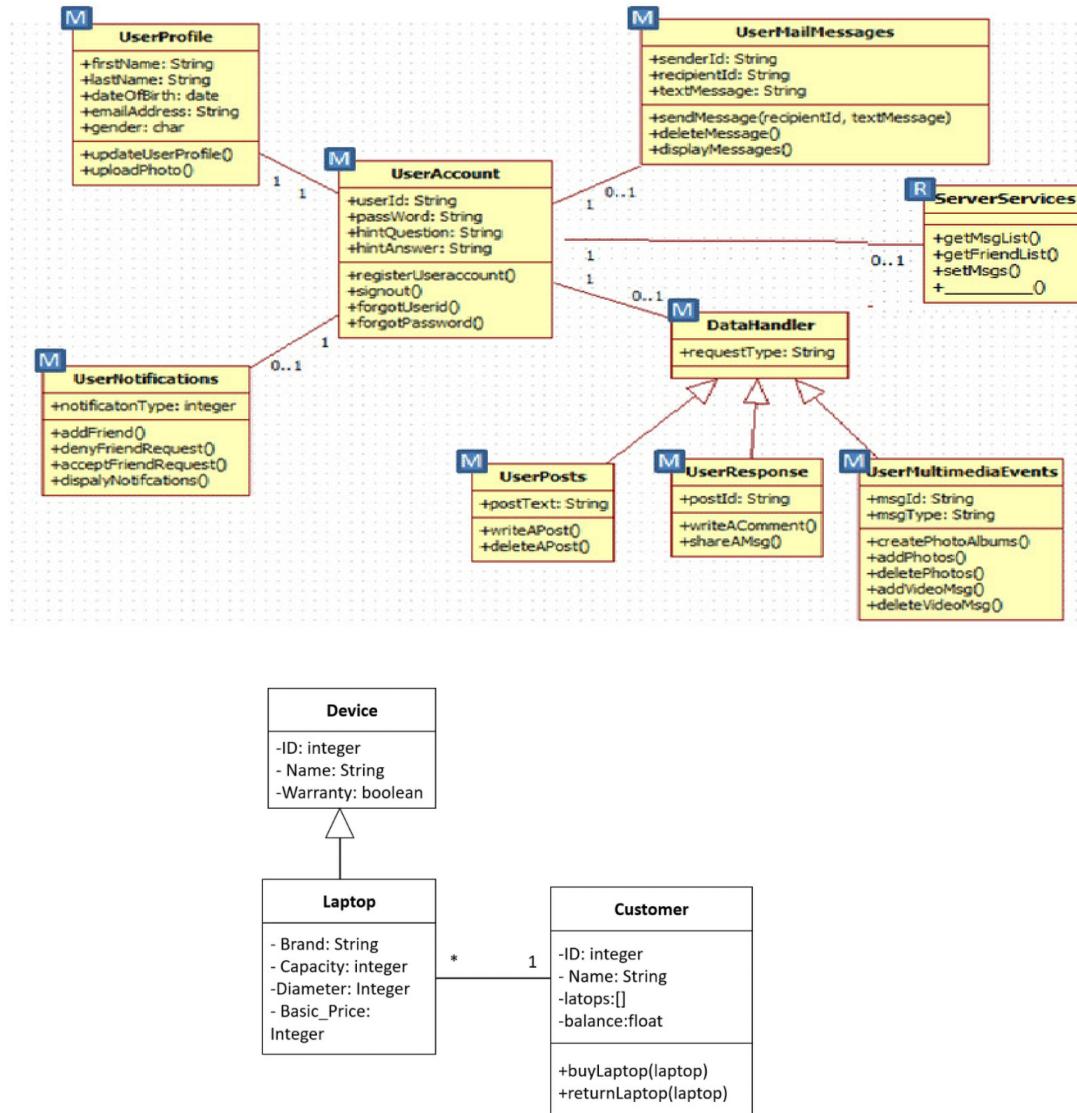
CHAPTER 4

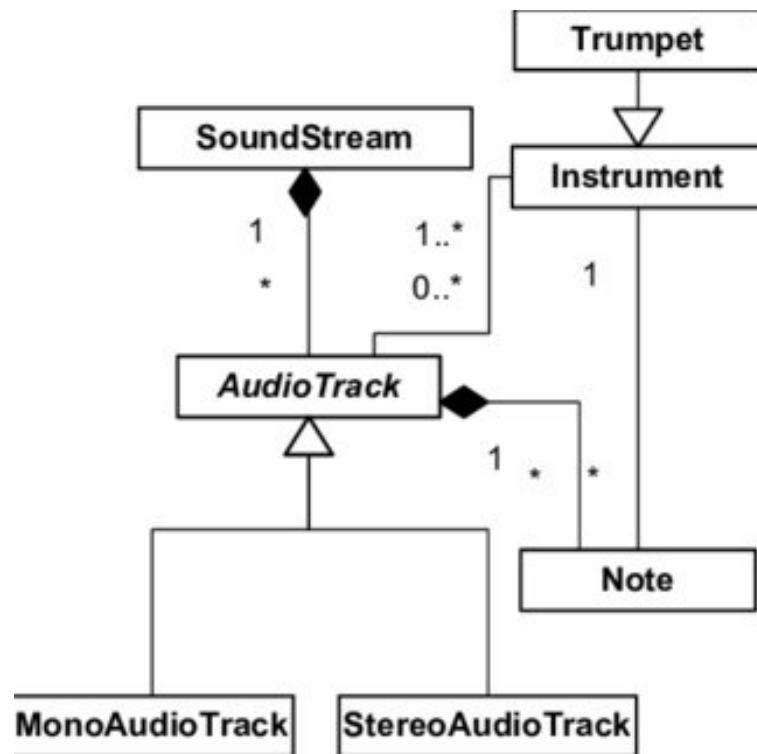
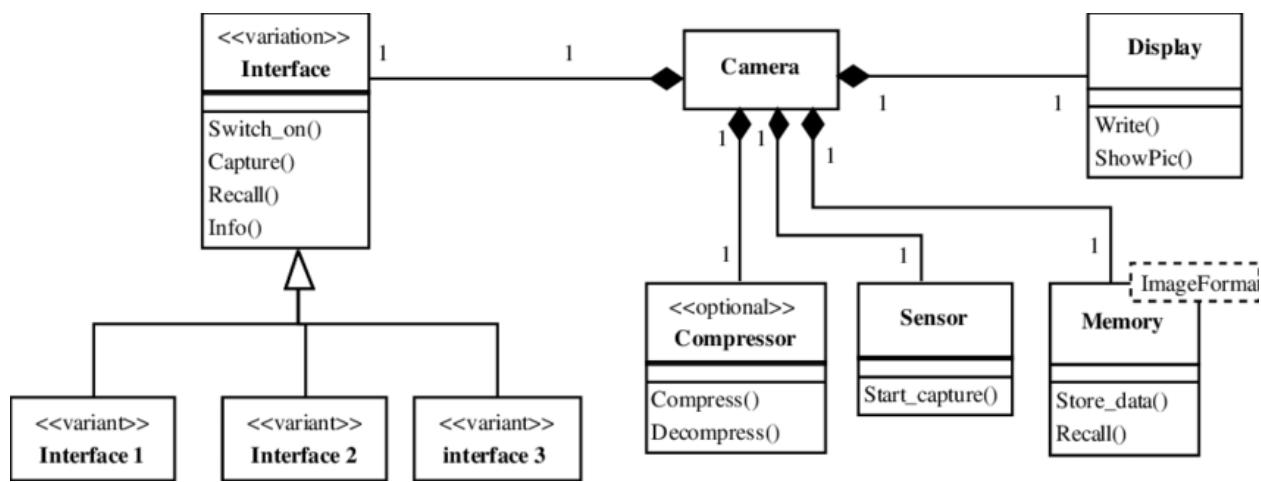
SOFTWARE DESIGN

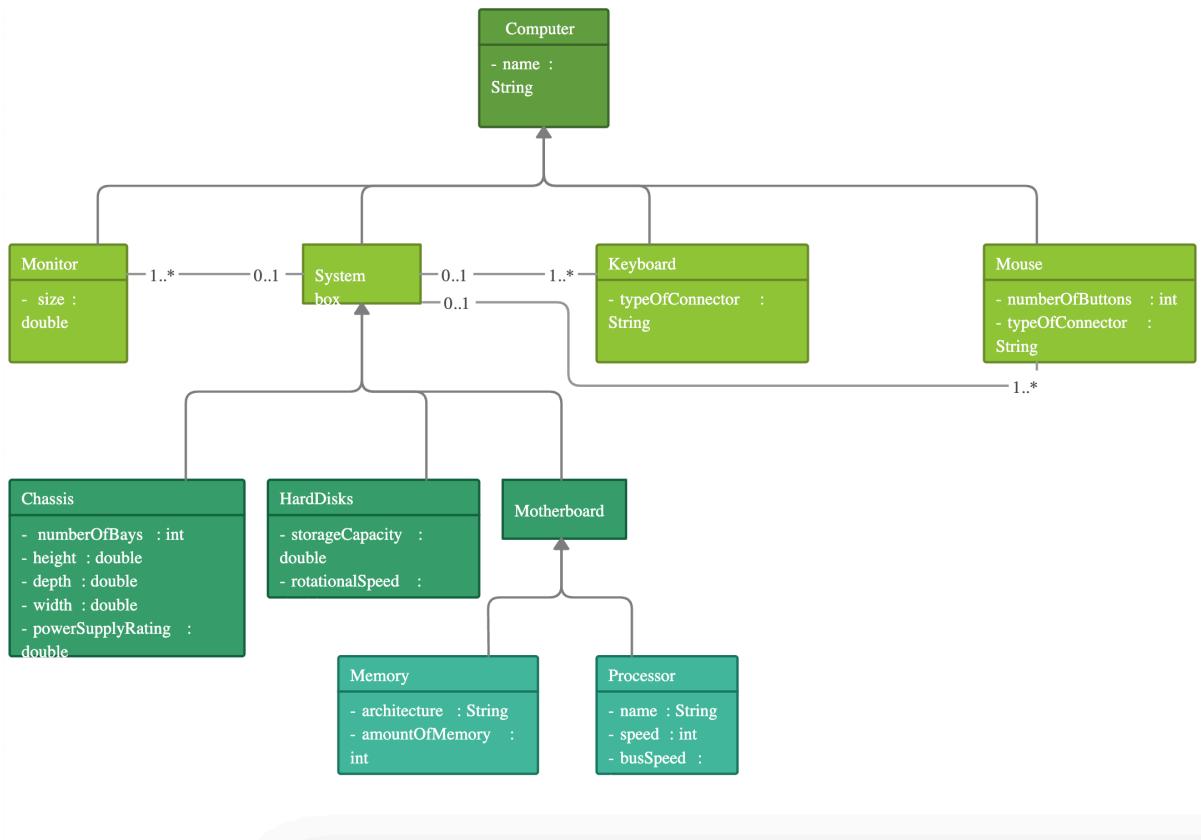
This section should aim at experimental designs, and materials used. The methodology should be mentioned in detail including modifications if any.

4.1 Design Approach

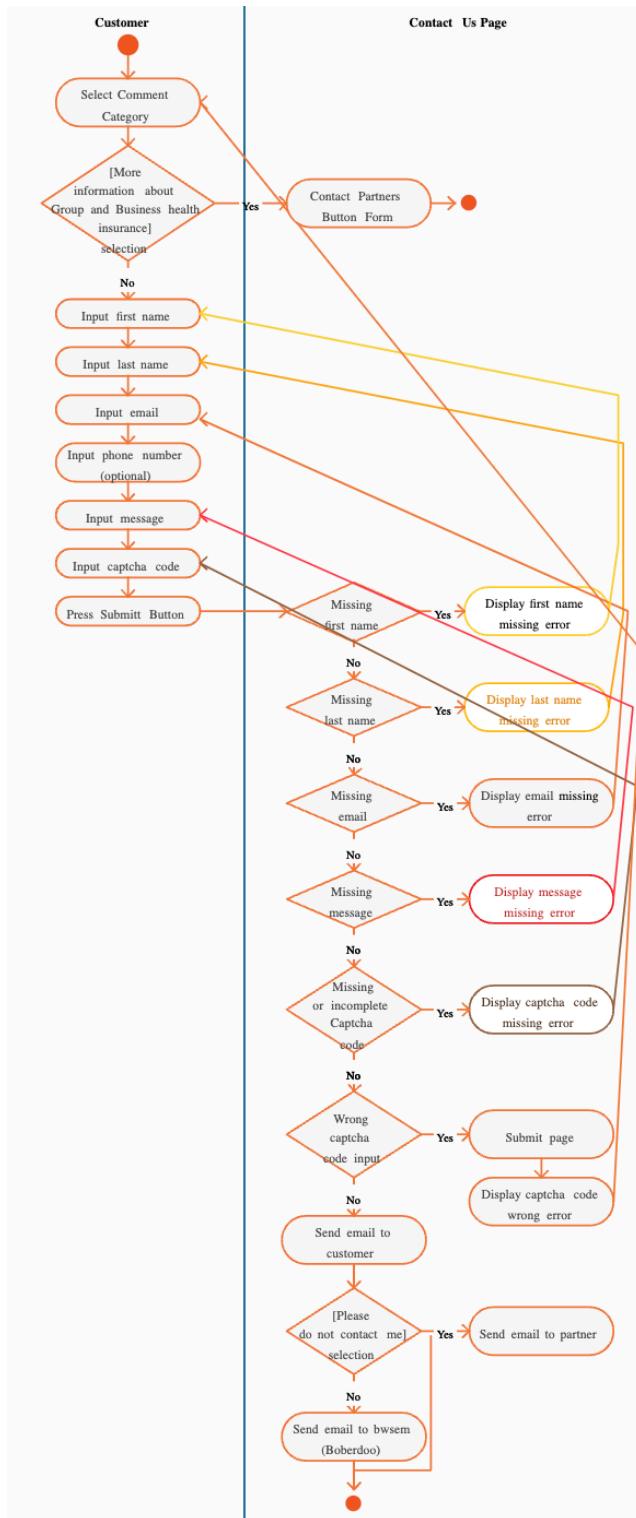
4.1.1 Class Diagrams



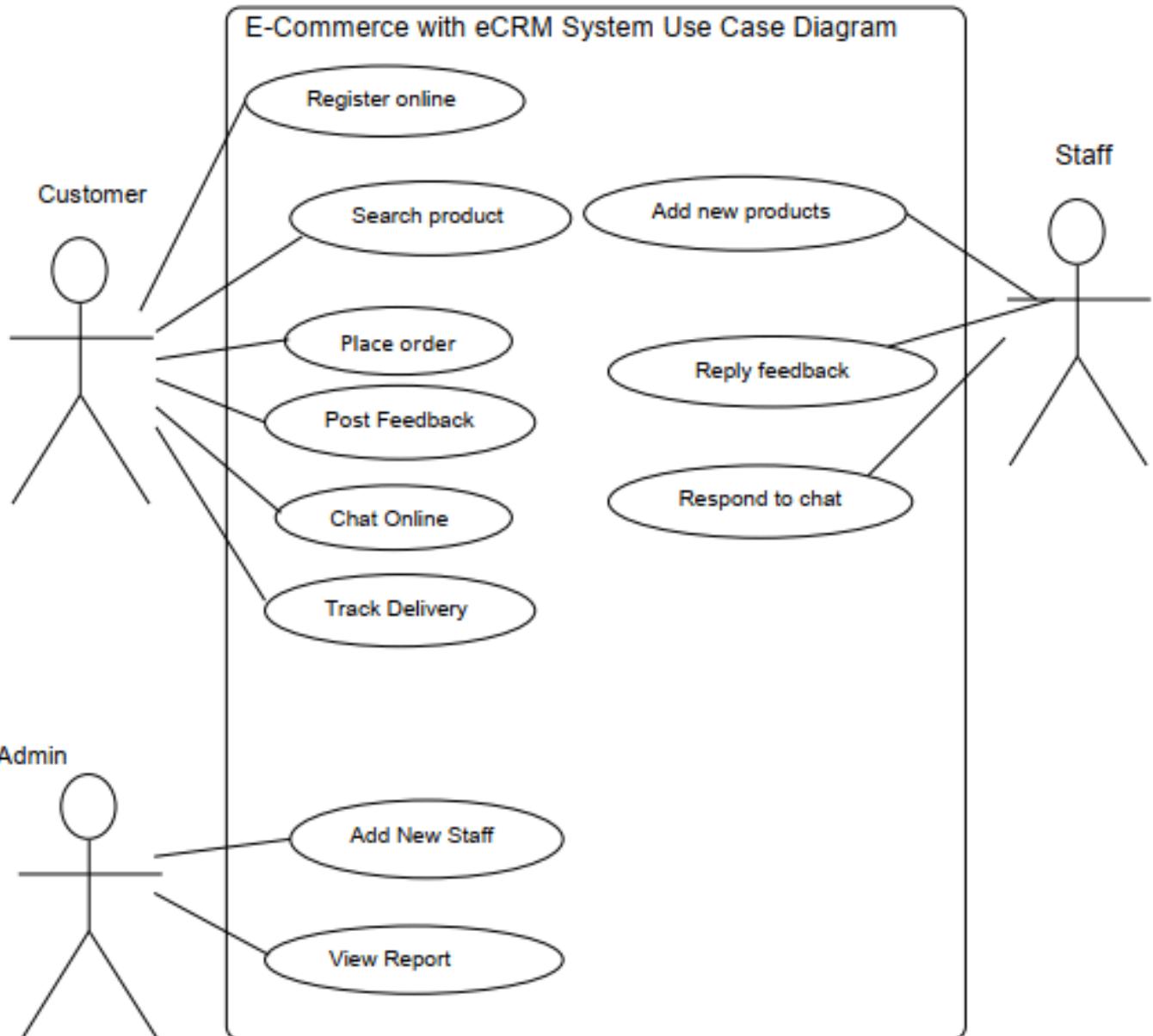




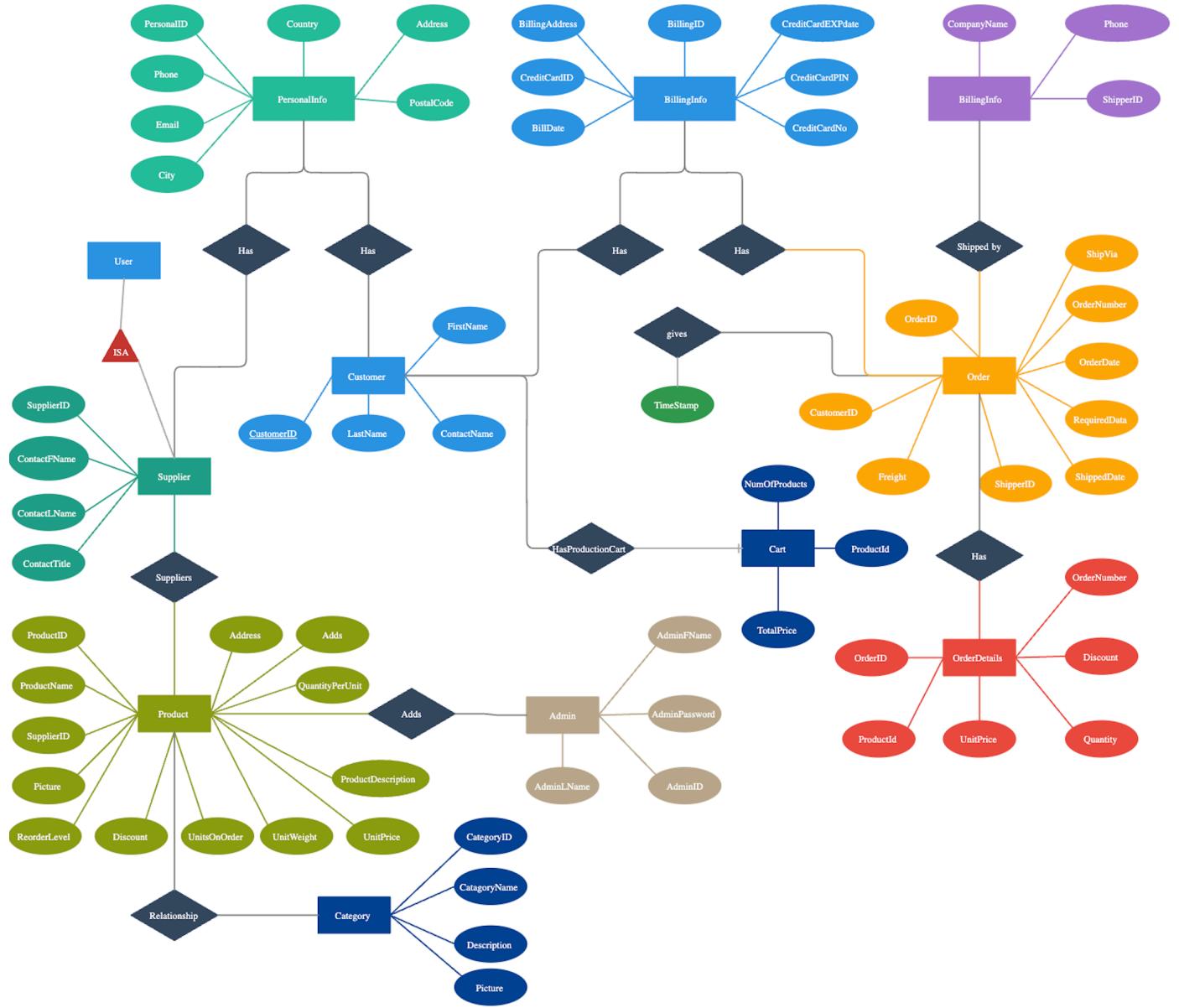
4.1.2 Interaction diagrams-Sequence and Collaboration diagrams



4.1.3 Use case diagrams

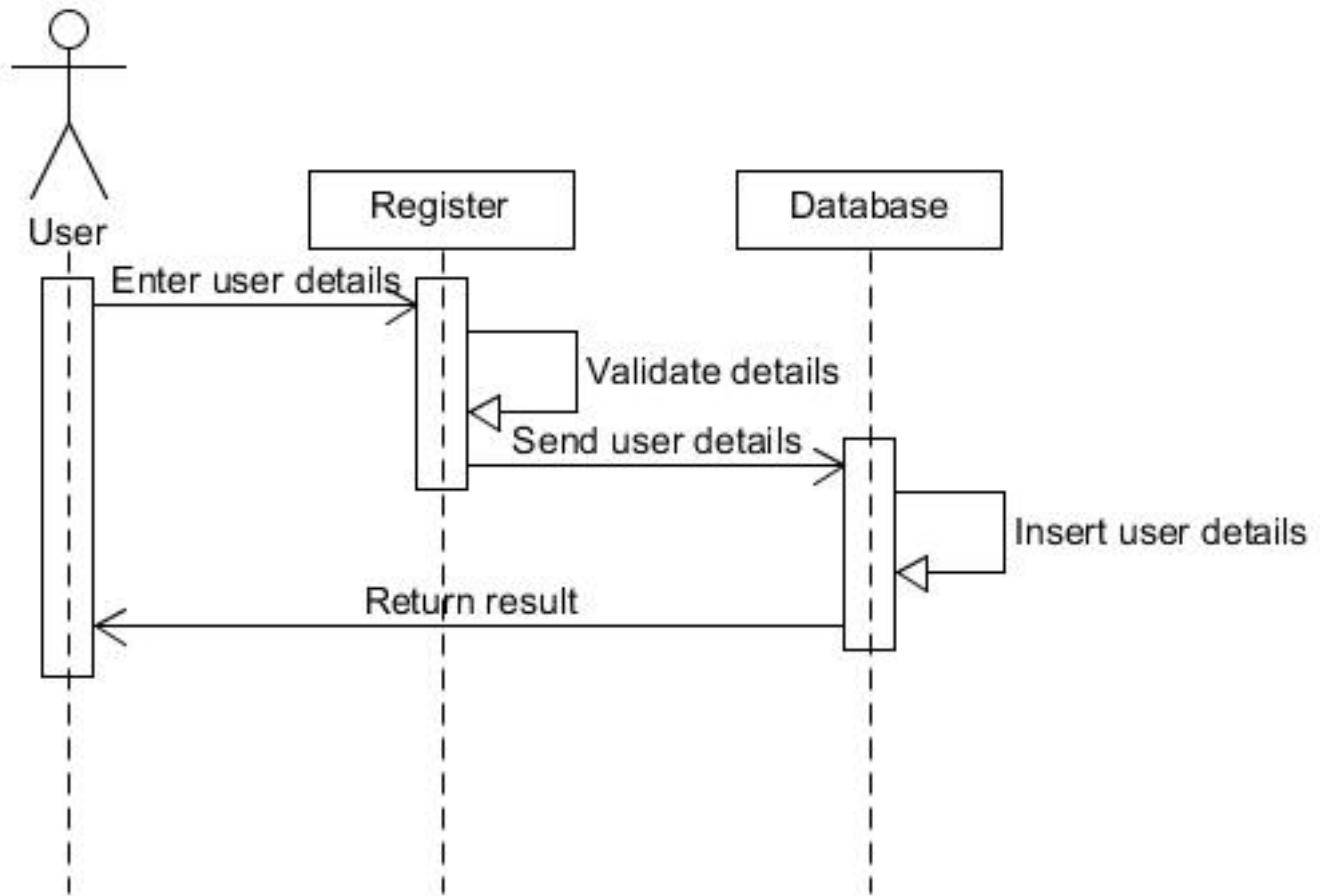


4.1.4 Activity Diagram



4.2 Database design

E-R Diagram



CHAPTER 5

CODING/CODE TEMPLATES

HOMEPAGE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!--===== FAVICON =====-->
    <link rel="shortcut icon" href="assets/img/favicon.png" type="image/x-icon">

    <!--===== REMIX ICONS =====-->
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css" rel="stylesheet">

    <!--===== CSS =====-->
    <link rel="stylesheet" href="assets/css/styles.css">

    <title>Right electronics-compare,review</title>
</head>
<body>
    <!--===== HEADER =====-->
    <header class="header" id="header">
        <nav class="nav container">
            <a href="#" class="nav__logo">
                <i class="ri-earth-line nav__logo-icon"></i> Groot Tech
            </a>

            <div class="nav__menu" id="nav-menu">
                <ul class="nav__list">
                    <li class="nav__item">
                        <a href="#home" class="nav__link active-link">Home</a>
                    </li>
                    <li class="nav__item">
                        <a href="#about" class="nav__link">About</a>
                    </li>
                    <li class="nav__item">
                        <a href="products2.html" class="nav__link">Products</a>
                    </li>
                </ul>
            </div>
        </nav>
    </header>
```

```

<li class="nav__item">
    <a href="compare.html" class="nav__link">Compare</a>
</li>

<li class="nav__item">
    <a href="review.html" class="nav__link">Review</a>
</li>

<li class="nav__item">
    <a href="#contact" class="nav__link">Contact Us</a>
</li>

</ul>

<div class="nav__close" id="nav-close">
    <i class="ri-close-line"></i>
</div>
</div>

<div class="nav__bt�s">
    <!-- Theme change button -->
    <i class="ri-moon-line change-theme" id="theme-button"></i>

    <div class="nav__toggle" id="nav-toggle">
        <i class="ri-menu-line"></i>
    </div>
</div>
</nav>
</header>

<main class="main">
    <===== HOME =====>
    <section class="home" id="home">
        <div class="home__container container grid">
            

            <div class="home__data">
                <h1 class="home__title">
                    Technology is best when bringing people together
                </h1>
                <p class="home__description">

```

There's a basic principle about consumer electronics: it gets more powerful all the time and it gets cheaper all the time.

```
</p>
<a href="#about" class="button button--flex">
    Explore <i class="ri-arrow-right-down-line button__icon"></i>
</a>
</div>

<div class="home__social">
    <span class="home__social-follow">Follow Us</span>

    <div class="home__social-links">
        <a href="https://www.facebook.com/" target="_blank" class="home__social-link">
            <i class="ri-facebook-fill"></i>
        </a>
        <a href="https://www.instagram.com/" target="_blank" class="home__social-link">
            <i class="ri-instagram-line"></i>
        </a>
        <a href="https://twitter.com/" target="_blank" class="home__social-link">
            <i class="ri-twitter-fill"></i>
        </a>
    </div>
</div>
</div>
</section>

<!--===== ABOUT =====-->
<section class="about section container" id="about">
    <div class="about__container grid">
        

        <div class="about__data">
            <h2 class="section__title about__title">
                About us & <br> why choose us
            </h2>

            <p class="about__description">
                <div class="text">
                    <h3>Web Developer & <span>AI ENGINEER</span></h3><br>
                    <p>heyy!! Gowtham Here!<br>
```

```

This website is designed for you 😊<br>
Choose your product wisely!!!😊<br>
</p><br>
<div class="data">
<a href="https://gowthamddy@gmail.com"
class="loginwithgoogle">google</a>
</div><br>
<div class="data">
<a href="https://instagram.com/" class="instagram">instagram</a>
</div>
</div>
</p>

</div>
</div>
</section>

<div id="modal" class="popupContainer" style="display:none;">
<header class="popupHeader">
<span class="header_title">Login</span>
<span class="modal_close"><i class="fa fa-times"></i></span>
</header>

<section class="popupBody">
<!-- Social Login -->
<div class="social_login">
<div class="">
<a href="#" class="social_box fb">
<span class="icon"><i class="fa fa-facebook"></i></span>
<span class="icon_title">Connect with Facebook</span>

</a>

<a href="#" class="social_box google">
<span class="icon"><i class="fa fa-google-plus"></i></span>
<span class="icon_title">Connect with Google</span>
</a>
</div>

<div class="centeredText">
<span>Or use your Email address</span>
</div>

```

```

<div class="action_btns">
    <div class="one_half"><a href="#" id="login_form"
class="btn">Login</a></div>
    <div class="one_half last"><a href="#" id="register_form"
class="btn">Sign up</a></div>
</div>

<!-- Username & Password Login form -->
<div class="user_login">
    <form>
        <label>Email / Username</label>
        <input type="text" />
        <br />

        <label>Password</label>
        <input type="password" />
        <br />

        <div class="checkbox">
            <input id="remember" type="checkbox" />
            <label for="remember">Remember me on this computer</label>
        </div>

        <div class="action_btns">
            <div class="one_half"><a href="#" class="btn back_btn"><i
class="fa fa-angle-double-left"></i> Back</a></div>
            <div class="one_half last"><a href="#" class="btn
btn_red">Login</a></div>
        </div>
    </form>

    <a href="#" class="forgot_password">Forgot password?</a>
</div>

<!-- Register Form -->
<div class="user_register">
    <form>
        <label>Full Name</label>
        <input type="text" />
        <br />

```

```

<label>Email Address</label>
<input type="email" />
<br />

<label>Password</label>
<input type="password" />
<br />

<div class="checkbox">
    <input id="send_updates" type="checkbox" />
    <label for="send_updates">Send me occasional email updates</
label>
</div>

<div class="action_btns">
    <div class="one_half"><a href="#" class="btn back_btn"><i
class="fa fa-angle-double-left"></i> Back</a></div>
    <div class="one_half last"><a href="#" class="btn
btn_red">Register</a></div>
</div>
</form>
</div>
</section>
</div>

<script src="login.js"></script>
<!--===== STEPS =====-->
<section class="steps section container">
    <div class="steps__bg">
        <h2 class="section__title-center steps__title">
            Steps to select your <br> right product
        </h2>

        <div class="steps__container grid">
            <div class="steps__card">
                <div class="steps__card-number">01</div>
                <h3 class="steps__card-title">Choose Product</h3>
                <p class="steps__card-description">
                    We have several varieties products you can choose from.
                </p>
            </div>

            <div class="steps__card">

```

```

<div class="steps__card-number">02</div>
<h3 class="steps__card-title">explore the product</h3>
<p class="steps__card-description">
    once you explore the product compare it and see review of product
</p>
</div>

<div class="steps__card">
    <div class="steps__card-number">03</div>
    <h3 class="steps__card-title">Finalize your product</h3>
    <p class="steps__card-description">
        once you have completed your compare and review of products you can
finalize your wished product
    </p>
    </div>
</div>
</div>
</section>

<!--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=--=-->
<section class="product section container" id="products">
    <h2 class="section__title-center">
        Products
    </h2>

    <p class="product__description">
        Here are some selected products from my personal choice, these are some of the best
        in their aspects and have a top notch build quality & well trusted in their domains
    </p>

    <div class="product__container grid">
        <article class="product__card">
            <div class="product__square"></div>

            <a href="products2.html" class="product__title">laptops</a>

        </article><br><br>

        <article class="product__card">
            

```

```

<a href="camera.html" class="product__title">Cameras</a>

</article>

<article class="product__card">



<a href="smartphone.html" class="product__title">Mobiles</a>

</article><br><br>

<article class="product__card">



<a href="audio.html" class="product__title">headphones</a>

</article>
</div>

</section>

```

```

<===== QUESTIONS =====>
<section class="questions section" id="faqs">
    <h2 class="section__title-center questions__title container">
        Some common questions <br> everybody have
    </h2>

    <div class="questions__container container grid">
        <div class="questions__group">
            <div class="questions__item">
                <header class="questions__header">
                    <i class="ri-add-line questions__icon"></i>
                    <h3 class="questions__item-title">
                        What to consider when buying a product?
                    </h3>
                </header>

                <div class="questions__content">

```

```

<p class="questions __ description">
    budget,usage of product,features,build quality these would be
    the 4 proper ways of finalizing of a product

</p>
</div>
</div>

<div class="questions __ item">
    <header class="questions __ header">
        <i class="ri-add-line questions __ icon"></i>
        <h3 class="questions __ item-title">
            how to choose the product in market at same price?
        </h3>
    </header>

    <div class="questions __ content">
        <p class="questions __ description">
            Again, budget comes first then reviews of both product and then consider
            features
            of a product.so that we can choose the best product of same price
        </p>
        </div>
    </div>
</div>

<div class="questions __ group">
    <div class="questions __ item">
        <header class="questions __ header">
            <i class="ri-add-line questions __ icon"></i>
            <h3 class="questions __ item-title">
                Should i prefer new brands?
            </h3>
        </header>

        <div class="questions __ content">
            <p class="questions __ description">
                Yes, you should prefer the new brands. they also have best featured
                products
                at less prices and go for it only if it's reviewed great
            </p>
            </div>
        </div>
    </div>

```

```

<div class="questions__item">
  <header class="questions__header">
    <i class="ri-add-line questions__icon"></i>
    <h3 class="questions__item-title">
      Is groot tech Trustable?
    </h3>
  </header>

  <div class="questions__content">
    <p class="questions__description">
      yes, this is 100% Trustable and suggests you a great products according to
      your budget
    </p>
    </div>
  </div>
</div>
</section>

<!--===== CONTACT =====-->
<section class="contact section container" id="contact">
  <div class="contact__container grid">
    <div class="contact__box">

      <div class="contact__data">
        <div class="contact__information">
          <h3 class="contact__subtitle">Call us for instant support</h3>
          <span class="contact__description">
            <i class="ri-phone-line contact__icon"></i>
            +91 8125618001
          </span>
        </div>

        <div class="contact__information">
          <h3 class="contact__subtitle">Write us by mail</h3>
          <span class="contact__description">
            <i class="ri-mail-line contact__icon"></i>
            gowthamddy@gmail.com
          </span>
        </div>
      </div>
    </div>
  </div>
</section>

```

```

    </div>
<form action="" class="contact_form" id="myform" name="v">
    <div class="contact_inputs">
        <div class="contact_content">
            <input type="email" placeholder=" " class="contact_input" id="Email">
            <label for="" class="contact_label">Email</label>
        </div>

        <div class="contact_content">
            <input type="text" placeholder=" " class="contact_input" id="subject">
            <label for="" class="contact_label">Subject</label>
        </div>

        <div class="contact_content contact_area">
            <input name="message" placeholder=" " class="contact_input"
id="message">
            <label for="" class="contact_label">Message</label>
        </div>
    </div>

    <button class="button button--flex" type="submit" onclick="func()">
        Send
        <!-- <i class="ri-arrow-right-up-line button_icon"></i> -->
    </button>
</form>

</div>
<script>
    function func() {
        }

        const form = document.getElementById('myform');

        form.addEventListener('submit', async function (event) {
            event.preventDefault();

            const Email = document.getElementById('Email').value;
            const subject = document.getElementById('subject').value;
            const message = document.getElementById('message').value;

            let headersList = {

```

```

        "Accept": "/",
        "Content-Type": "application/json"
    }

let bodyContent = JSON.stringify({
    "Email": Email,
    "subject": subject,
    "Message": message
});

let response = await fetch("http://127.0.0.1:3000/api/contact/send", {
    method: "POST",
    body: bodyContent,
    headers: headersList
});

let data = await response.text();
console.log(data);
alert(data);
});

</script>

</section>

</main>

<!--===== FOOTER =====-->
<footer class="footer section">
    <div class="footer__container container grid">
        <div class="footer__content">
            <a href="#" class="footer__logo">
                <i class="ri-earth-line footer__logo-icon"></i> Groot Tech
            </a>

            <h3 class="footer__title">
                Subscribe to Groot Tech<br> to stay update
            </h3>

            <div class="footer__subscribe">
                <input type="email" placeholder="Enter your email" class="footer__input">
            </div>
        </div>
    </div>
</footer>
```

```

<button class="button button--flex footer__button">
    Subscribe
    <i class="ri-arrow-right-up-line button__icon"></i>
</button>
</div>
</div><br>

<div class="footer__content">
    <h3 class="footer__title">Our Address</h3>

    <ul class="footer__data">
        <li class="footer__information">plot no:135, house no:164</li>
        <li class="footer__information">srinagar colony,jubliee hills</li>
        <li class="footer__information">hyderabad,Telangana</li>
    </ul>
</div>

<div class="footer__content">
    <h3 class="footer__title">Contact Us</h3>

    <ul class="footer__data">
        <li class="footer__information">+91 8125618001</li>

        <div class="footer__social">
            <a href="https://www.facebook.com/" class="footer__social-link">
                <i class="ri-facebook-fill"></i>
            </a>
            <a href="https://www.instagram.com/" class="footer__social-link">
                <i class="ri-instagram-line"></i>
            </a>
            <a href="https://twitter.com/" class="footer__social-link">
                <i class="ri-twitter-fill"></i>
            </a>
        </div>
    </ul>
</div>

</div>

<p class="footer__copy">© GROOT TECH. All rights reserved</p>
</footer>

<!--===== SCROLL UP =====-->

```

```

<a href="#" class="scrollup" id="scroll-up">
  <i class="ri-arrow-up-fill scrollup__icon"></i>
</a>

<!--===== SCROLL REVEAL =====-->
<!-- <script src="assets/js(scrollreveal.min.js"></script> -->

<!--===== MAIN JS =====-->
<script src="assets/js/main.js"></script>

</body>
</html>

```

PRODUCTS PAGE:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!--===== FAVICON =====-->
    <link rel="shortcut icon" href="assets/img/favicon.png" type="image/x-icon">
    <!--===== REMIX ICONS =====-->
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css"
rel="stylesheet">
    <!--===== CSS =====-->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha2/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-aFq/bAnQF41oJqPbhGzvBzH65dt+w6FI2ooMVUpc+21e0SRygnTpmBvdBgSdnTuTN7QbdgL+OapgHtvPp"
      crossorigin="anonymous"
    >
    <link rel="stylesheet" href="assets/css/styles.css">
  <title>products</title>
  <style>
    .grid-container {
      display: grid;
      grid-template-columns: auto auto auto;
      gap: 10px;
      background-color: #2196F3;
      padding: 10px;
    }

```

```

.grid-container > div {
    background-color: rgba(255, 255, 255, 0.8);
    border: 1px solid black;
    text-align: center;
    font-size: 30px;
}
@media screen and (max-width: 540px) {
    .grid-container {
        display: grid;
        grid-template-columns: auto auto;
        gap: 8px;
        background-color: #7a92a6;
        padding: 8px;
    }
}

</style>
</head>
<body>
<!--===== HEADER =====>
<header class="header" id="header">
    <nav class="nav container">
        <a href="#" class="nav_logo">
            <i class="ri-earth-line nav_logo-icon"></i>
            Groot Tech
        </a>
        <div class="nav_menu" id="nav-menu">
            <ul class="nav_list">
                <li class="nav_item">
                    <a href="index2.html" class="nav_link active-link">Home</a>
                </li>
                <li class="nav_item">
                    <a href="products2.html" class="nav_link">Laptops</a>
                </li>
                <li class="nav_item">
                    <a href="camera.html" class="nav_link">Cameras</a>
                </li>
                <li class="nav_item">
                    <a href="smartphone.html".html class="nav_link">Mobiles</a>
                </li>
                <li class="nav_item">
                    <a href="audio.html" class="nav_link">headphones</a>
                </li>
            </ul>
        </div>
    </nav>
</header>

```

```

</li>

</ul>
<div class="nav__close" id="nav-close">
  <i class="ri-close-line"></i>
</div>
</div>
<div class="nav__bt�s">
  <!-- Theme change button -->
  <i class="ri-moon-line change-theme" id="theme-button"></i>
  <div class="nav__toggle" id="nav-toggle">
    <i class="ri-menu-line"></i>
  </div>
</div>
</nav>
</header>
<a href="#" class="scrollup" id="scroll-up">
  <i class="ri-arrow-up-fill scrollup__icon"></i>
</a>

<div class="container1">

  <div class="content2 container">

    <h3> 15 best laptops you can buy in 2023</h3>
    <h4>The best laptops for you, from ultraportables to high-powered editing machines</h4>
    <p>
      The best laptop of 2023 can come with a variety of brands, prices, and features. Whether you're looking for a business notebook, a Chromebook, a 2-in-1 convertible, or something else entirely, our recommendations below should have you covered.

      Our current pick for the best laptop of 2023 is the MacBook Air. It's a device that does just about everything right. While it's certainly not perfect, there are no major flaws. It's a great pick for productivity, browsing, and even light gaming.

      It's getting harder to buy a bad laptop, but what separates the best laptops from good laptops is how they balance power, efficiency, portability, and comfort. The top laptop should have a fantastic keyboard and trackpad — after all, those are the two biggest reasons you'd choose a laptop over a smartphone or tablet. Its display should be easy on the eyes, bright, and sharp enough that you aren't distracted by jagged edges and visible pixels. It should be powerful enough for most anything short of intensive video editing and advanced gaming. It should be
  
```

easy to carry around from place to place, and it should be able to last all day without needing to be plugged in.

Our other picks for the best laptops, Chromebooks, and 2-in-1s include the Asus ROG Zephyrus G15, the MacBook Pro 16, and the HP Spectre x360 14. Check out the full list of best laptop picks below or our roundup of the best gaming laptops, if you're looking for a powerful machine that doesn't sacrifice portability.

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</p>

</div>
</div>
<div class="container2">
<div class="content3 container">
<h4>Best Laptops 2023</h4>
<a href="https://apple.sjv.io/c/482924/435031/7613?u=https%3A%2F%2Fwww.apple.com%2Fshop%2Fbuy-mac%2Fmacbook-air%2Fmidnight-apple-m2-chip-with-8-core-cpu-and-8-core-gpu-256gb&subId2=[]vg[p]21014736[t]w[r]https://www.google.com/[d]D">1. Apple MacBook Air (M2)</a>
<br>
<a href="">2. MacBook Pro (14-inch and 16-inch)</a>
<br>
<a href="">3. HP Spectre x360 14</a>
<br>
<a href="">4. Asus Zenbook Pro Duo 14</a>
<br>
<a href="">5. Asus ROG Zephyrus G14</a>
<br>
<a href="">6. Asus Chromebook Flip CX5</a>
<br>
<a href="">7. MacBook Pro 16 (M2 Pro and M2 Max)</a>
<br>
<a href="">8. Dell XPS 13</a>
<br>
<a href="">9. Lenovo ThinkPad X1 Nano</a>
<br>
<a href="">10. Asus Zenbook S 13 OLED</a>
<br>
<a href="">11. Lenovo Chromebook Duet 3</a>
<br>
<a href="">12. Microsoft Surface Laptop 5 (13.5-inch)</a>
<br>
<a href="">13. Razer Blade 16</a>
<br>
```

```
<a href="">14. HP Dragonfly Pro</a>
<br>
<a href="">15. LG Gram 17</a>
<br>
<h3>Best Laptops 2023</h3>
<br>

<br>
<br>
<h4>1. Apple MacBook Air (M2)</h4>
<h5>The best laptop of 2023</h5>
<p>
```

The latest MacBook Air, powered by Apple's M2 processor, is the best laptop for most people.

```
<br>
```

The base model, which includes 8GB of memory, 256GB of storage, an 8-core CPU, and an 8-core GPU, starts at \$1,199. A model with 512GB of storage, which is what we recommend for most people and will let you keep using the laptop for longer, costs \$1,399.

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<br>
```

The Air has lost the wedge-shape design that was its calling card for years but retains many of the other excellent features of years past, including MagSafe charging, Touch ID, and the scissor-switch keyboard, and adds a new 1080p webcam and two new color options.

```
<br>
```

The M2 processor inside isn't as fast or powerful as the M1 Pro or M1 Max you get in the larger (and more expensive) MacBook Pro models, but it's still mighty fast. In our testing, it was able to handle intense office workloads with little to no heat or slowdown. Given how thin and light this device is, it delivers a combination of power and portability that you'll be hard-pressed to find in many other machines out there.

```
<br>
```

The M2 Air didn't give us quite as much battery life as the 16-inch M1 Pro MacBook did in our rundown testing, but we would still expect it to last most people a full day of continuous use.

```
<br>
```

Apple is continuing to sell the M1 MacBook Air, which was released in 2020. If the M2 MacBook Air is out of your price range, we recommend that you consider the M1 model

```
</p>
<br>

<br>
<br>
<h4>2. MacBook Pro (14-inch and 16-inch)</h4>
<h5>The best Macbook for creators</h5>
<p>
```

The 16-inch MacBook Pro is an expensive laptop, but now that the 2023 model is out, we expect that shoppers will be able to find discounts. If you can find one, you'll almost certainly be satisfied with what this machine can do.

In our benchmarks, which test a variety of creative tasks including encoding, playback, and export time, the MacBook Pro 16 did better than any laptop we've ever used — the only other machines that have come close to matching this thing in some of our benchmarks are high-end desktop PCs. The battery life is also record-shattering. The 16-inch configuration with the M1 Pro processor lasted 16 hours in my testing — making it the longest-lasting laptop we've ever reviewed. (The M1 Max configuration doesn't last quite as long, but still got us through a work day.

Elsewhere, we have basically no complaints about the newest MacBook Pro. It has a gorgeous display that can reach 1,000 nits when playing HDR content. It pairs that with the best set of speakers we've ever heard from a laptop. And these Pro models can output to multiple external displays, while the Air is limited to one.

If you're looking for a machine that can accommodate a demanding workload while also serving as an excellent multimedia device when you're off the clock, the MacBook Pro 16 is the best device for you.

If you're a creative professional who doesn't quite want to pay the price of the MacBook Pro 16, or you're looking for something more compact, you're probably better suited to the 14-inch MacBook Pro. This device is smaller, lighter, and less expensive than its 16-inch counterpart, but it comes with the same monstrous processor options and the same stellar screen.

e same monstrous processor options and the same stellar screen.

We didn't see much of a difference in benchmark scores between the 14-inch and 16-inch MacBooks with the same processors — the 14-incher actually outperformed the 16-inchers in some of our tests. The primary difference to consider, apart from the sizes of these devices, is battery life. The 16-inch chassis allows for a significantly bigger battery, and the 16-inch M1 Pro model lasted several hours longer than the 14-inch M1 Pro model did in our testing

</p>

<h4>3. HP Spectre x360 14</h4>

<h5>The best Windows laptop</h5>

<p>

It's hard to come up with a single complaint about the Spectre x360 14. It's a drop-dead gorgeous machine with a sturdy build and a premium look and feel.

But the Spectre x360 14 isn't just pretty to look at: it's also a pleasure to use as a daily work driver. Intel's latest 11th Gen processors and Iris Xe integrated graphics deliver snappy performance with no slowdown or freezes that we observed. And we got an average of 10 hours of battery life out of the device — one of the best results we've ever seen.

On the outside, the Spectre includes a roomy 3:2 display, and if FHD resolution doesn't suit your fancy, there are OLED and 1,000-nit options available. There's even a packaged stylus, which attaches magnetically to the side of the Spectre — handy if you're using the device as a tablet. Pretty much every other aspect of this laptop, from its comfortable keyboard and smooth touchpad to its bass-heavy audio and practical port selection, rivals or exceeds the best convertibles on the market.

Such an exceptional package of features doesn't come cheap, and many customers will find everything they need in a less expensive product. But the Spectre x360 14 is the new gold standard of Windows convertibles. Overall, it's the best Windows laptop you can buy.

</p>

<h4>4. Asus Zenbook Pro Duo 14</h4>

<h5>The best dual-screen laptop</h5>

<p>

Finally, there is a dual-screen laptop we can actually recommend buying. In the past, the dual-screen form factor has felt gimmicky, difficult to see, and difficult to use. But in the Zenbook Duo 14, Asus has angled the screen significantly higher than before, made it higher resolution, and given it an anti-glare etching that's made it actually useful.

Using Asus's ScreenXpert software, Zenbook Pro Duo users essentially have a small, crisp secondary OLED monitor on their keyboard deck. This second screen can also be turned into a giant touchpad (which is helpful since the actual touchpad the device comes with is pretty tiny. The device also comes with high-performance chips from Intel and Nvidia, and a roomy 16:10 primary screen. While the keyboard-in-the-front layout won't be for everyone, this innovative device is the best choice for shoppers who want multiple screens in one.

</p>

<h4>5. Asus ROG Zephyrus G14</h4>

<h5>The best laptop for gaming on the go</h5>

<p>

You want to be careful with this one, because some of the models are too expensive for what they offer. Make sure that you're buying the \$1,649.99 SKU with the 6700S GPU. We feel that this model, specifically, is the best 14-inch gaming laptop you can buy. It's a perfectly portable device at just 3.79 pounds and 0.77 inches thick, and it comes with a great keyboard, touchpad, port selection, and screen. The frame rates it produced in our testing were solid, and we didn't see a huge difference in performance between the 6700S and 6800S models. And we got all-day battery life, which you don't see in gaming laptops every day.

If you are interested in having an animated grid of colored lights on your computer, you can also pay more for a model that has Asus's AniMe Matrix. We don't think these models offer particularly good value for their price, but they do have some cute benefits – you can customize them to display words or images of your choice, and there's a virtual pet on it that you can play with.

</p>

<h4>6. Asus Chromebook Flip CX5</h4>

<h5>The best 15-inch Chromebook</h5>

<p>

Asus surprised us with its Chromebook Flip CX5, a gorgeous \$800 laptop that happens to run Chrome OS. It's as sturdy and well-built as all kinds of Windows laptops at higher price points, and sports a unique smooth texture. It includes fully-fledged laptop specs, including a 57Wh battery, which provide speedy performance, long battery life, and quick charging.

You get all kinds of ports, including an HDMI and a microSD slot. The speakers sound great, and the keyboard is comfortable. Asus hasn't skimped on CX5's chassis or its performance — it's absolutely the product to buy if you're looking for a Chromebook with a big screen.

</p>

<h4>7. MacBook Pro 16 (M2 Pro and M2 Max)</h4>

<h5>Best video editing laptop</h5>

<p>

If you're a professional with a heavy workload looking for the best in power, graphics, and battery life that Apple has to offer, you want the 16-inch MacBook Pro with Apple's brand-new M2 Pro or M2 Max. It won't come cheap – models start at \$2,499 – but it is one of the most powerful and longest-lasting laptops you can buy.

The 2023 MacBook Pro looks very similar to the 2021 MacBook Pro, with the same camera notch, the same port selection (including MagSafe charging), and the same exceptional speaker system.

In testing, we've found that the M2 Max provides several additional hours of battery life over the M1 Max that powered the 2021 MacBook Pro 16. The M2 Max also has more multicore and single-core CPU power, and a lot more graphic power, than the M1 Max did. That won't make a difference for standard home and office tasks, but can save you some time if your occupation requires a really powerful PC.

The 2023 model is below the 2021 model on this list because we still believe the 2021 models are better value for users who can find them at a steep discount – which, now that the 2023 model is on shelves, we expect they'll be able to do. The 2023 model, at full price, is more of a niche product for power users for whom those extra CPU and GPU cores really matter.

</p>

<h4>9. Lenovo ThinkPad X1 Nano</h4>

<h5>The best laptop for business travel</h5>

<p>

In many ways, the ThinkPad X1 Nano is a run-of-the-mill ThinkPad. It's got a solid sturdy chassis, discrete clickers, a physical privacy shutter, a red TrackPoint in the middle of the keyboard, and all kinds of business-specific security and management features.

But the Nano is special because it's the lightest ThinkPad Lenovo has ever made. It's also one of the lightest laptops you can buy, at just 1.99 pounds. You're not sacrificing performance to get that mindblowing weight: The Nano kept up with our heavy testing workloads without any fan noise or noticeable heat. If you're looking for a reliable business laptop that will feel like nothing in your briefcase, this is the one for you

</p>

<h4>10. Asus Zenbook S 13 OLED</h4>

<h5>The best OLED laptop</h5>

<p>

You don't need to spend thousands of dollars to get a lightweight laptop with an excellent screen. The Asus Zenbook S 13 OLED, powered by the new Ryzen 6000 series processors, is a powerful and lightweight device that's great fun to use.

In addition to its solid build quality and excellent, speedy processor, the Zenbook S 13 is only 2.43 pounds and just over half an inch thick. It has a handy LED number pad built into its touchpad. (You can still navigate with the touchpad if the numpad is pulled up, which always impresses me.) And the OLED touch display is bright and roomy, and looks quite nice. The Ryzen 7 processor in my \$1,299 test model did an excellent job with my multitasking workload, generating only occasional warmth on the bottom of the device. It could game well enough too, delivering some of the best results we've ever seen from integrated graphics in a 13-inch device.

</p>

<h4>11. Lenovo Chromebook Duet 3</h4>

<h5>The best laptop under \$400</h5>

<p>

The Lenovo Chromebook Duet 3 is a great, tiny laptop for budget shoppers. It comes with a magnetic detachable keyboard that's a breeze to pop on and off. The screen also supports USI styluses, though a stylus is not included in the price. The keyboard is included in the price, however, as is the magnetic back cover and kickstand.

Day-to-day, this laptop is quite usable for light work and leisure. It has a sharp, bright 11-inch screen and a surprisingly comfortable keyboard and touchpad. The battery life is close to all-day. But the real draw of this device is its portability — it's just 2.09 pounds with the keyboard attached, making it quite convenient to carry around and whip out to use on the go.

</p>

<h4>

12. Microsoft Surface Laptop 5 (13.5-inch) ▾

</h4>

<h5>The best thin and light laptop</h5>

<p>

The Surface Laptop 5 looks and feels quite similar to last year's Surface Laptop 4. Like its predecessor, the Laptop 5 is thin, light, and well built, with Microsoft's signature elegant style. Newly this year, the Laptop 5 supports Thunderbolt 4 — but unlike last year, there are only Intel models, with no AMD ones available.

Inside, the 12th-Gen processors delivery satisfactory performance, particularly single-core tasks. We felt no heat or fan noise during our testing, which was remarkable considering the device's thin profile. Our tasks looked quite sharp on the 3:2, 13-inch display as well. Our primary complaint was the battery life, which is okay, but not amazing, and a decrease from last year's results

</p>

<h4>

13. Razer Blade 16

</h4>

<h5>The best laptop for AAA gaming</h5>

<p>

The Razer Blade 16 is an incredible purchase for gamers with very, very deep pockets. Equipped with top-end chips from Nvidia and Intel, it can run most of today's' most demanding games at their highest settings with all the effects you want. Add Razer's signature suave chassis and fun (but unobtrusive) RGB keyboard, and there's little to complain about.

But it's not just the performance that stands out — games also look great. The Blade comes with an optional Mini LED screen. Not only does the panel deliver rich and vivid colors, but it also has a dual-mode feature that allows you to swap between native UDH Plus /120Hz and FHD Plus/240Hz modes with one click. You don't need to spend this much on a gaming laptop in order to get a good gaming experience, as some of the entries earlier on this list prove. But if you're looking for the best performance and best display you can squeeze out of the 16-inch form factor, this is the choice for you. It's a luxury gaming experience for a luxury price

</p>

<h4>

14. HP Dragonfly Pro

</h4>

<h5>The best business laptop</h5>

<p>

While part of HP's Dragonfly business line, the Dragonfly Pro isn't being sold to IT departments — it's tailored to self-employed individuals and freelance workers. It's powered by AMD's Ryzen 7000 series, and its performance rivaled that of the M2 MacBook Pro in our testing. Battery life, while not quite M2-level, was enough to power through a full day unplugged. There's little to object to among the other features as well. The speakers sound good,

the webcam delivers a detailed picture, the keyboard is comfortable, and the screen is quite bright. In typical HP fashion, the chassis is quite well built with a sleek and professional look.

The Dragonfly Pro comes with an optional 24/7 live support service, which you can access via a hotkey on the right side of the keyboard. It's included with the first year, and then it's \$10.99 per month. This isn't something we think most people will need, but if you're interested in having access to that sort of program, this is the laptop for you.

</p>

<h4>

15. LG Gram 17

</h4>

<h5>

A thin, light 17-inch laptop

</h5>

<p>

Even if you've used a light laptop before, it's difficult to explain how light the LG Gram 17 is. It has a massive 17-inch display, but it's somehow only three pounds. Picking it up messes with your mind; you feel like you're not holding anything.

But the Gram 17's weight isn't the only standout feature. It also has some of the best battery life you can get, lasting over 12 hours in our testing. Add a great keyboard, a solid port selection, quiet fans, and a fast processor, and there's very little not to like about this device.

Not everyone needs a 17-inch display, and many folks who do are looking for a heavier-duty workstation that probably doesn't get moved very often. But if you'd just really like a large screen for your daily office work and Netflixing, you're the target demographic for this machine. It's a niche, but truly impressive device without much real competition in today's market.

</p>

<h4>Buying guides to help you discover the right choice:</h4>

<div class="product_container grid">

<article class="product_card">

<div class="product_square"></div>

Laptop Guide

</article>

<article class="product_card">


```

        <a class="product__title" href="cameraguide.html">camera Guide</a>
    </article>
    <article class="product__card">
        
        <a class="product__title" href="smartphoneguide.html">Smartphone Guide</a>
    </article>
    <br>
    <br>
    <article class="product__card">
        
        <a class="product__title" href="headphonesguide.html">headphones Guide</a>
    </article>
    </div>
</div>
</div>
<!--===== SCROLL REVEAL =====-->
<script src="assets/js(scrollreveal.min.js)"></script>
<!--===== MAIN JS =====-->
<script src="assets/js/main.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha2/dist/js/bootstrap.bundle.min.js" integrity="sha384-qKXV1j0HvMUECBQ+QVp7JcfGl760yU08IQ+GpUo5hlpg51QRiuqHAJz8+BrxE/N"
crossorigin="anonymous"></script>
</body>

</html>

```

COMPARE PAGE HTML:

```

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <!--===== FAVICON =====-->
        <link rel="shortcut icon" href="assets/img/favicon.png" type="image/x-icon">

        <!--===== REMIX ICONS =====-->
        <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css" rel="stylesheet">

        <!--===== CSS =====-->

```

```

<link rel="stylesheet" href="assets/css/styles.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/5.1.0/
css/bootstrap.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/
all.min.css">

<style>
td>img {
    width: 100%;
    height: 250px;
    object-fit: contain;
}
</style>
<title>Compare</title>
<meta name="viewport" content="width=device-width, initial-scale=1">

</head>
<body>

<!--===== HEADER =====-->
<header class="header" id="header">
    <nav class="nav container">
        <a href="#" class="nav_logo text-decoration-none">
            <i class="ri-earth-line nav_logo-icon text-decoration-none"></i> Groot Tech
        </a>

        <div class="nav_menu" id="nav-menu">
            <ul class="nav_list">
                <li class="nav_item">
                    <a href="index2.html" class="nav_link active-link text-decoration-
none">Home</a>
                </li>

                <li class="nav_item">
                    <a href="compare.html" class="nav_link text-decoration-none">compare</a>
                </li>
            </ul>

            <div class="nav_close" id="nav-close">
                <i class="ri-close-line"></i>
            </div>
        </div>
    </nav>
</header>

```

```

        </nav>
        <section>
            <h1 class="display-5 my-5 text-center">Comparision of products</h1>
            <div class="container">
                <div class="col-md-9 mx-auto">
                    <table class="table">
                        <tr class="bg-light">
                            <th>Select Product</th>
                            <th width="300px">
                                <select class="form-control" id="select1" onchange="item1(this.value)">
                                    <option value="0">-- Select Anyone --</option>
                                </select>
                            </th>
                            <th width="300px">
                                <select class="form-control" id="select2" onchange="item2(this.value)">
                                    <option value="0">-- Select Anyone --</option>
                                </select>
                            </th>
                        </tr>
                        <tr>
                            <th>Product </th>
                            <td>
                                
                            </td>
                            <td>
                                
                            </td>
                        </tr>
                        <tr>
                            <th>Product Description</th>
                            <td id="desc1">N/A</td>
                            <td id="desc2">N/A</td>
                        </tr>
                        <tr>
                            <th>STORAGE/RAM</th>
                            <td id="ram1">N/A</td>
                            <td id="ram2">N/A</td>
                        </tr>
                    </table>
                </div>
            </div>
        </section>
    
```

```

        </tr>

        <tr>
            <th>Operating System</th>
            <td id="os1">N/A</td>
            <td id="os2">N/A</td>
        </tr>

    </table>

    </div>
</div>
<a href="#" class="scrollup" id="scroll-up">
    <i class="ri-arrow-up-fill scrollup__icon"></i>
</a>

<!--===== SCROLL REVEAL =====-->
<script src="assets/js/scrollreveal.min.js"></script>
<script src="assets/js/data.js"></script>
<!--===== MAIN JS =====-->
<script src="assets/js/main.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/2.9.2/umd/popper.min.js "></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/5.1.0/js/bootstrap.min.js "></script>

</header><br><br><br><br>
<script>
    for (var i = 1; i < product.length; i++) {
        document.getElementById("select1").innerHTML += `
        <option value="$i">$product[i].title</option>
        `;
        document.getElementById("select2").innerHTML += `
        <option value="$i">$product[i].title</option>
        `;
    }
    function item1(a) {
        var select2 = document.getElementById("select2").value;
        if (a != select2) {
            document.getElementById("img1").src = product[a].image
            document.getElementById("desc1").innerHTML = product[a].description
            document.getElementById("ram1").innerHTML = product[a].ram
            document.getElementById("os1").innerHTML = product[a].system
        }
    }
</script>

```

```

    } else {
        document.getElementById("select1").selectedIndex = 0;
        document.getElementById("img1").src = product[0].image
        document.getElementById("ram1").innerHTML = ""
        document.getElementById("desc1").innerHTML = ""

    }
}

function item2(a) {
    var select1 = document.getElementById("select1").value;
    if (a != select1) {
        document.getElementById("img2").src = product[a].image
        document.getElementById("desc2").innerHTML = product[a].description
        document.getElementById("ram2").innerHTML = product[a].ram
        document.getElementById("os2").innerHTML = product[a].system

    } else {
        document.getElementById("select2").selectedIndex = 0;
        document.getElementById("img2").src = product[0].image
        document.getElementById("ram2").innerHTML = ""
        document.getElementById("desc2").innerHTML = ""

    }
}

</script>

```

</body>

</html>

REVIEW PAGE HTML:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">

```

```

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!--===== FAVICON =====-->
<link rel="shortcut icon" href="assets/img/favicon.png" type="image/x-icon">

<!--===== REMIX ICONS =====-->
<link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css" rel="stylesheet">

<!--===== CSS =====-->
<link rel="stylesheet" href="assets/css/styles.css">

<title>Right electronics-compare,review</title>
</head>
<body>
<!--===== HEADER =====-->
<header class="header" id="header">
<nav class="nav container">
<a href="#" class="nav_logo">
<i class="ri-earth-line nav_logo-icon"></i> Groot Tech
</a>

<div class="nav_menu" id="nav-menu">
<ul class="nav_list">
<li class="nav_item">
<a href="index2.html" class="nav_link active-link">Home</a>
</li>

<li class="nav_item">
<a href="products2.html" class="nav_link">Products</a>
</li>

<li class="nav_item">
<a href="compare.html" class="nav_link">Compare</a>
</li>
<li class="nav_item">
<a href="review.html" class="nav_link">Review</a>
</li>

</ul>
<div class="nav_close" id="nav-close">
<i class="ri-close-line"></i>

```

```

        </div>
    </div>

    <div class="nav__btns">
        <!-- Theme change button -->
        <i class="ri-moon-line change-theme" id="theme-button"></i>

        <div class="nav__toggle" id="nav-toggle">
            <i class="ri-menu-line"></i>
        </div>
    </div>
</nav>
</header>

<main class="main">

<===== CONTACT =====>
<section class="contact section container" id="contact">
    <div class="contact__container grid">

        <form action="" id="myform">
            <h3>Write your review:</h3><br><br>
            <div class="contact__inputs">
                <div class="contact__content">
                    <input type="email" placeholder=" " class="contact__input" id="Email">
                    <label for="" class="contact__label">Email</label>
                </div>

                <div class="contact__content contact__area">
                    <input name="message" placeholder=" " class="contact__input"
id="writereview">
                        <label for="" class="contact__label">write review</label>
                    </div>
                </div>

                <button class="button button--flex" type="submit">
                    post
                    <!-- <i class="ri-arrow-right-up-line button__icon"></i> -->
                </button>
                <script>

```

```

        function func() {

    }

    const form = document.getElementById('myform');

    form.addEventListener('submit', async function (event) {
        event.preventDefault();

        const Email = document.getElementById('Email').value;
        const writereview = document.getElementById('writereview').value;

        let headersList = {
            "Accept": "/",
            "Content-Type": "application/json"
        }

        let bodyContent = JSON.stringify({
            "Email": Email,
            "writereview": writereview
        });

        let response = await fetch("http://127.0.0.1:3000/api/review/post", {
            method: "POST",
            body: bodyContent,
            headers: headersList
        });

        let data = await response.text();
        console.log(data);
        alert(data);
    });
</script>

</form>

</div>
</section>

<style>*
    margin: 0;
    padding: 0;

```

```

    }
    .rate {
        float: left;
        height: 46px;
        padding: 0 10px;
    }
    .rate:not(:checked) > input {
        position: absolute;
        top: -9999px;
    }
    .container5 {
        display: flex;
        justify-content: center;
        text-align: center;
    }
    .rate:not(:checked) > label {
        float: right;
        width: 1em;
        overflow: hidden;
        white-space: nowrap;
        cursor: pointer;
        font-size: 30px;
        color: #ccc;
    }
    .rate:not(:checked) > label:before {
        content: '★';
    }
    .rate > input:checked ~ label {
        color: #ffc700;
    }
    .rate:not(:checked) > label:hover,
    .rate:not(:checked) > label:hover ~ label {
        color: #deb217;
    }
    .rate > input:checked + label:hover,
    .rate > input:checked + label:hover ~ label,
    .rate > input:checked ~ label:hover,
    .rate > input:checked ~ label:hover ~ label,
    .rate > label:hover ~ input:checked ~ label {
        color: #c59b08;
    }
}

```

```

        </style>
</main>

<!--===== FOOTER =====-->
<footer class="footer section">
  <div class="footer__container container grid">
    <div class="footer__content">
      <a href="#" class="footer__logo">
        <i class="ri-earth-line footer__logo-icon"></i> Groot Tech
      </a>

      <h3 class="footer__title">
        Subscribe to our newsletter <br> to stay update
      </h3>

      <div class="footer__subscribe">
        <input type="email" placeholder="Enter your email" class="footer__input">

        <button class="button button--flex footer__button">
          Subscribe
          <i class="ri-arrow-right-up-line button__icon"></i>
        </button>
      </div>
    </div><br>

    <div class="footer__content">
      <h3 class="footer__title">Our Address</h3>

      <ul class="footer__data">
        <li class="footer__information">plot no:135, house no:164</li>
        <li class="footer__information">srinagar colony,jubliee hills</li>
        <li class="footer__information">hyderabad,Telangana</li>
      </ul>
    </div>

    <div class="footer__content">
      <h3 class="footer__title">Contact Us</h3>

      <ul class="footer__data">
        <li class="footer__information">+91 8125618001</li>
      </ul>
    </div>
  </div>
</footer>

```

```

        <i class="ri-facebook-fill"></i>
    </a>
    <a href="https://www.instagram.com/" class="footer__social-link">
        <i class="ri-instagram-line"></i>
    </a>
    <a href="https://twitter.com/" class="footer__social-link">
        <i class="ri-twitter-fill"></i>
    </a>
</div>
</ul>
</div>

</div>

<p class="footer__copy">© Gowtham. All rights reserved</p>
</footer>

<!--===== SCROLL UP =====-->
<a href="#" class="scrollup" id="scroll-up">
    <i class="ri-arrow-up-fill scrollup__icon"></i>
</a>

<!--===== SCROLL REVEAL =====-->

<!--===== MAIN JS =====-->
<script src="assets/js/main.js"></script>
</body>
</html>

```

BACKEND FOR CONTACT US AND REVIEW :

1) Package.json code:

```
{
  "name": "grootbackend",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "dev": "nodemon src/app.js",
    "nodemon": "nodemon src/app.js"
  },
  "keywords": []
}
```

```

"author": "",  

"license": "ISC",  

"dependencies": {  

  "bcryptjs": "^2.4.3",  

  "body-parser": "^1.20.2",  

  "cors": "^2.8.5",  

  "express": "^4.18.2",  

  "hbs": "^4.2.0",  

  "mongoose": "^7.0.3",  

  "nodemon": "^2.0.22"  

}  

}

```

2) contact.js code:

```

const express = require('express');  
  

const router = express.Router();
const Contact = require('../models/Contactmodel');

```

```

router.post('/send',async(req,res)=>{  

try{  

  const obj = new Contact(req.body);  

  await obj.save()  

  res.send("Data Saved")  

}  

catch(e){  

  res.json(e)  

}  

});
```

```
module.exports = router;
```

3) review.js code:

```

const express = require('express');  
  

const router = express.Router();
const review = require('../models/reviewmodel');

```

```
router.post('/post',async(req,res)=>{
```

```

try{
    const obj = new review(req.body);
    await obj.save()
    res.post("Data Saved")
}
catch(e){
res.json(e)
}
});

```

module.exports = router;

4) conn.js code:

```

const mongoose = require("mongoose");

mongoose.connect("mongodb://127.0.0.1:27017/groot", {

}).then(()=>{
    console.log(`connection sucessful`);
}).catch((e)=> {
    console.log(`no connection`);
    console.log(e);
})

```

5) contactmodel.js code:

```

const mongoose = require('mongoose');
const ContactSchema = new mongoose.Schema(
{
    Email: {
        type: String,
    },
    subject: {
        type: String,
    },
    message: {
        type: String,
    }
},
{ timestamps: true }
);

```

```
module.exports = mongoose.model("Contact", ContactSchema);
```

6) reviewmodel.js code:

```
const mongoose = require('mongoose');
const reviewSchema = new mongoose.Schema(
  {
    Email: {
      type: String,
    },
    writereview: {
      type: String,
    }
  },
  { timestamps: true }
)

module.exports = mongoose.model("review",reviewSchema);
```

7) app.js code:

```
const express = require("express");
const path = require("path");
const app = express();
const cors = require("cors");
require("../src/db/conn");

const port = process.env.PORT || 3000;

const static_path = path.join(__dirname, "../public");
app.use(cors());
app.use(express.static(static_path));
app.get("/",(req,res) => {
  res.send("hello from the ggr")
});

app.listen(port, () => {
  console.log(`server is running at port no ${port}`);
})
```

```

app.use(express.json())
app.use('/api/contact', require('../src/db/Routes/contact'))
app.use('/api/review', require('../src/db/Routes/review'))

```

DATABASE FOR CONTACT US AND REVIEW :

groot.contacts

11 DOCUMENTS 3 INDEXES

| _id | Email | subject | createdAt | updatedAt | __v |
|--------------------------------------|-------------------------|--------------------------|-------------------------------|-------------------------------|-----|
| ObjectID("64327242160ee98f5fa0b6db") | gouthamreddyj@gmail.com | " | 2023-04-09T08:07:30.915+00:00 | 2023-04-09T08:07:30.915+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54dc") | gouthamreddyj@gmail.com | " | 2023-04-10T09:22:03.232+00:00 | 2023-04-10T09:22:03.232+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e9") | gouthamreddyj@gmail.com | "this is good" | 2023-04-10T09:56:07.606+00:00 | 2023-04-10T09:56:07.606+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e7") | gouthamreddyj@gmail.com | "namm" | 2023-04-10T10:21:07.459+00:00 | 2023-04-10T10:21:07.459+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e1") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e3") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e7") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e7") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e7") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |
| ObjectID("6433d53bb6df4cbf6d7c54e7") | gouthamreddyj@gmail.com | "this is a best website" | 2023-04-10T10:59:56.188+00:00 | 2023-04-10T10:59:56.188+00:00 | 0 |

groot.reviews

26 DOCUMENTS 1 INDEXES

| _id | Email | writerReview | createdAt | updatedAt | __v |
|-------------------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|-----|
| ObjectID("6431c5a5ff7fc809577f3d8") | drunkmonkey481@gmail.com | "hi is god" | 2023-04-08T19:43:00.152+00:00 | 2023-04-08T19:43:00.152+00:00 | 0 |
| ObjectID("6431c720ef807bb907218c1") | drunkmonkey481@gmail.com | "this is a best website" | 2023-04-08T19:57:20.992+00:00 | 2023-04-08T19:57:20.992+00:00 | 0 |
| ObjectID("6431c720ef807bb907218c3") | drunkmonkey481@gmail.com | "this is a best website" | 2023-04-08T19:59:56.188+00:00 | 2023-04-08T19:59:56.188+00:00 | 0 |
| ObjectID("6431c720ef807bb907218c5") | drunkmonkey481@gmail.com | "this is a best website" | 2023-04-08T19:59:56.188+00:00 | 2023-04-08T19:59:56.188+00:00 | 0 |
| ObjectID("6431c720ef807bb907218c7") | drunkmonkey481@gmail.com | "this is a best website" | 2023-04-08T19:59:56.188+00:00 | 2023-04-08T19:59:56.188+00:00 | 0 |

CHAPTER 6

TESTING

1) Test Case 1: Contact Us Form Submission

Objective: To verify that the "Contact Us" form submission functionality is working correctly.

Input:

- Email: "gowthamddy@gmail.com"
- Subject: "Inquiry about my product"
- Message: "I have a question about some products"

Expected Output:

- Form submission is successful and a confirmation message is displayed.
- An email notification is sent to the customer support team with the details of the submitted form.

Actual Output:

- Form submission is successful and a confirmation message is displayed.
- An email notification is sent to the customer support team with the details of the submitted form.

2. Test Case 2: Review Submission

3. Objective: To verify that the "Review" submission functionality is working correctly.

Input:

- Email: "gowthamddy@gmail.com"
- Write Review: "Great website that has clear information!!"

Expected Output:

- Review submission is successful and the review is displayed on the product page with the correct rating, title, and description.

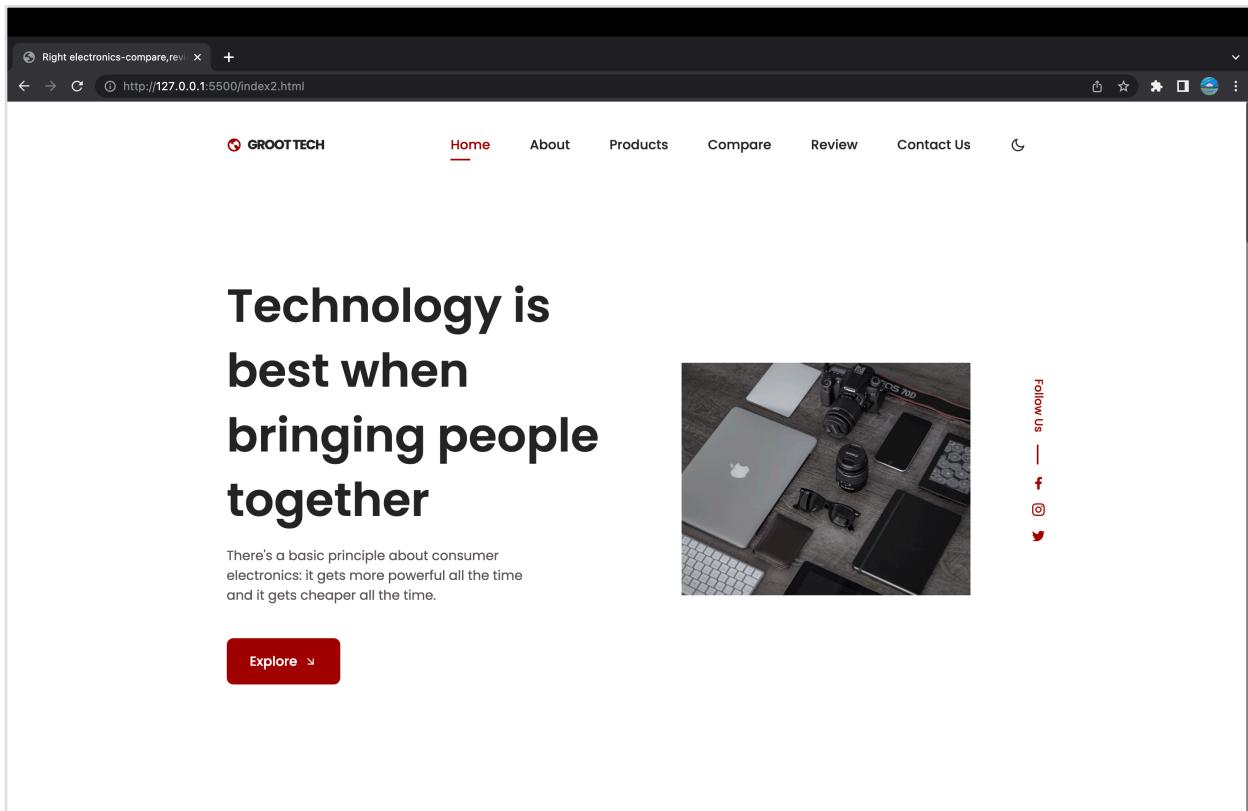
Actual Output:

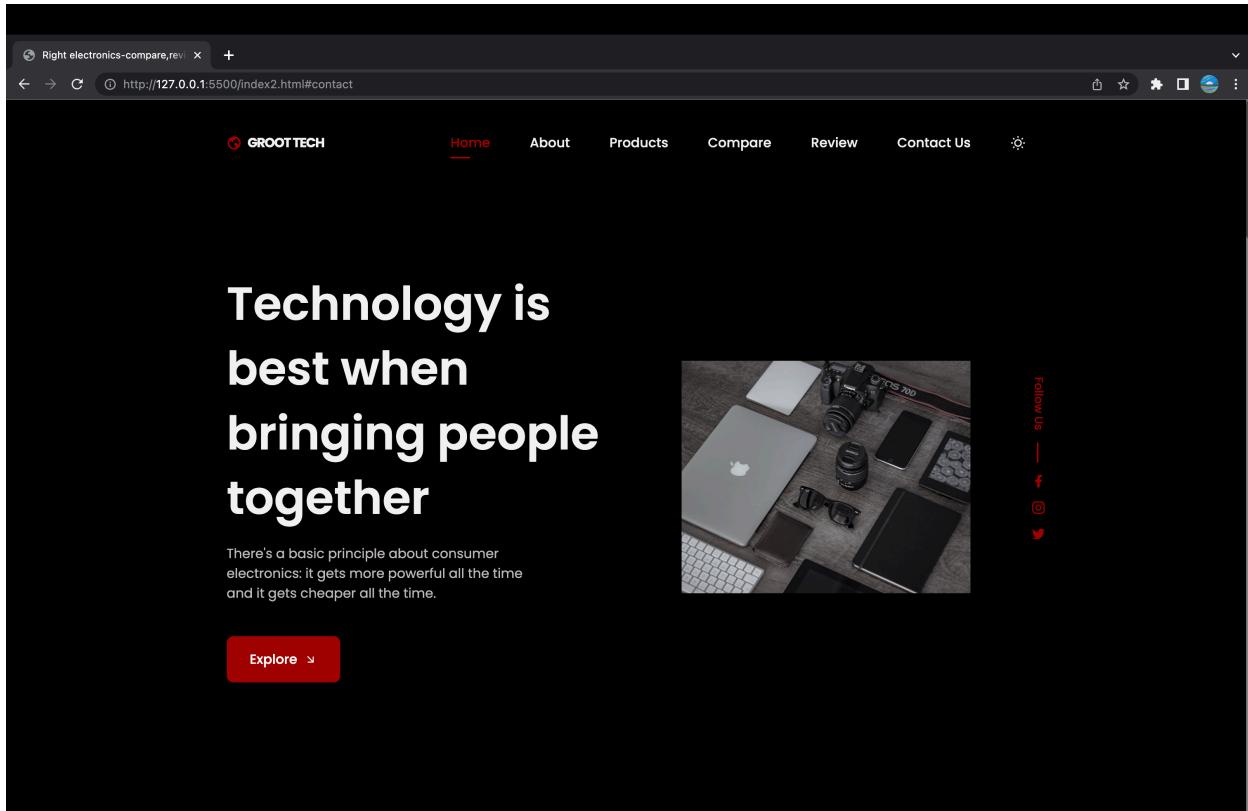
- Review submission is successful and the review is displayed on the product page with the correct rating, title, and description.

CHAPTER 7

OUTPUT SCREENS:

HOME PAGE:





About Us page:

A screenshot of the website's "About Us" page. The layout is similar to the homepage, with a black header and a white content area. On the left, there's a portrait photo of a man with glasses and a beard. To the right, the text reads: "About us & why choose us" and "Web Developer & AI ENGINEER". Below this, there's a message: "hey!! Gowtham Here! This website is designed for you 😊 Choose your product wisely!!!😊". There are two red buttons labeled "google" and "instagram". At the bottom, a red call-to-action button says "Steps to select your right product".

The screenshot shows the 'About' page of a website titled 'GROOT TECH'. The header includes a logo, navigation links for Home, About (which is underlined), Products, Compare, Review, Contact Us, and a light/dark mode switch. The main content features a large portrait of a man with glasses and a beard looking upwards. To the right of the image, the text 'About us & why choose us' is displayed in bold. Below it, the title 'Web Developer & AI ENGINEER' is followed by a message: 'heyy!! Gowtham Here! This website is designed for you 😊 Choose your product wisely!!!😊'. Two red buttons labeled 'google' and 'instagram' are present. A dark callout box in the center contains the text 'Steps to select your right product'.

PRODUCTS PAGE:

The screenshot shows the 'Products' page of the website. The layout is identical to the 'About' page, with the 'About' link being the active tab. A large red callout box in the center contains the text 'Steps to select your right product' and three numbered steps: '01 Choose Product', '02 explore the product', and '03 Finalize your product', each with a brief description below.

Right electronics-compare,revi x +

http://127.0.0.1:5500/index2.html

GROOT TECH Home About Products Compare Review Contact Us ☰

Steps to select your right product

- 01 Choose Product We have several varieties products you can choose from.
- 02 explore the product once you explore the product compare it and see review of product
- 03 Finalize your product once you have completed your compare and review of products you can finalize your wished product

↑

Right electronics-compare,revi x +

http://127.0.0.1:5500/index2.html#contact

GROOT TECH Home About Products Compare Review Contact Us ☰

Products

Here are some selected products from my personal choice, these are some of the best in their aspects and have a top notch build quality & well trusted in their domains

laptops

Cameras

headphones

Mobiles

Tablets

A screenshot of a web browser showing a light-themed products page for 'GROOT TECH'. The page has a header with a logo and navigation links for Home, About, Products (underlined), Compare, Review, Contact Us, and a search icon. Below the header is a section titled 'Products' with a paragraph about selected products. It then displays four product categories with images and labels: 'laptops' (laptop image), 'Cameras' (camera image), 'headphones' (earbuds image), and 'Mobiles' (smartphone image). A separate section labeled 'Tablets' shows a tablet with a red-themed UI. A small circular icon with a play button is in the bottom right corner.

Right electronics-compare,rev x +

http://127.0.0.1:5500/index2.html

GROOT TECH Home About Products Compare Review Contact Us ☰

Products

Here are some selected products from my personal choice, these are some of the best in their aspects and have a top notch build quality & well trusted in their domains



laptops



Cameras



Mobiles



headphones



Right electronics-compare,rev x +

http://127.0.0.1:5500/index2.html#contact

GROOT TECH Home About Products Compare Review Contact Us ☰

Some common questions everybody have

+ What to consider when buying a product?

+ how to choose the product in market at same price?

+ Should i prefer new brands?

x Is groot tech Trustable?

yes, this is 100% Trustable and suggests you a great products according to your budget

Call us for instant support

Email

Feedback

Right electronics-compare,rev/ http://127.0.0.1:5500/index2.html

GROOT TECH Home About Products Compare Review Contact Us ☰

Some common questions everybody have

- + What to consider when buying a product?
- + Should i prefer new brands?
- + how to choose the product in market at same price?
- X Is groot tech Trustable?**
yes, this is 100% Trustable and suggests you a great products according to your budget

products http://127.0.0.1:5500/products2.html

GROOT TECH Home Laptops Cameras Mobiles headphones ☰

15 best laptops you can buy in 2023

The best laptops for you, from ultraportables to high-powered editing machines

The best laptop of 2023 can come with a variety of brands, prices, and features. Whether you're looking for a business notebook, a Chromebook, a 2-in-1 convertible, or something else entirely, our recommendations below should have you covered. Our current pick for the best laptop of 2023 is the MacBook Air. It's a device that does just about everything right. While it's certainly not perfect, there are no major flaws. It's a great pick for productivity, browsing, and even light gaming. It's getting harder to buy a bad laptop, but what separates the best laptops from good laptops is how they balance power, efficiency, portability, and comfort. The top laptop should have a fantastic keyboard and trackpad — after all, those are the two biggest reasons you'd choose a laptop over a smartphone or tablet. Its display should be easy on the eyes, bright, and sharp enough that you aren't distracted by jagged edges and visible pixels. It should be powerful enough for most anything short of intensive video editing and advanced gaming. It should be easy to carry around from place to place, and it should be able to last all day without needing to be plugged in. Our other picks for the best laptops, Chromebooks, and 2-in-1s include the Asus ROG Zephyrus G15, the MacBook Pro 16, and the HP Spectre x360

14. Check out the full list of best laptop picks below or our roundup of the best gaming laptops, if you're looking for a powerful machine that doesn't sacrifice portability.

CONTACT US PAGE:

The screenshot shows a contact form on a website. At the top, there is a navigation bar with links for Home, About, Products, Compare, Review, and Contact Us. Below the navigation bar, there are two sections for contacting support: one for phone calls and one for email. Both sections include a 'Send' button. At the bottom of the page, there is a footer with social media links and a copyright notice.

Call us for instant support
+91 8125618001

Write us by mail
gowthamddy@gmail.com

Email _____

Subject _____

Message _____

Send

GROOT TECH

Subscribe to Groot Tech
to stay update

Our Address
plot no:135, house no:164
srinagar colony, lumbini

Contact Us
+91 8125618001
f g t

The screenshot shows the same contact form as the first one, but with a black background. The layout and content are identical to the first screenshot, including the navigation bar, contact information, message fields, and footer.

Call us for instant support
+91 8125618001

Write us by mail
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Email _____

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COMPARE PAGE:

The screenshot shows a web browser window titled "Compare" with the URL <http://127.0.0.1:5500/compare.html>. The page is titled "Comparision of products". It features two search input fields: "Select Product" with "Apple iPhone 14" and another field with "Google Pixel 7 Pro". Below the inputs, there's a section labeled "Product" with two images: the back of the iPhone 14 and the front of the Pixel 7 Pro. A table compares the two products across three categories: "Product Description", "STORAGE/RAM", and "Operating System".

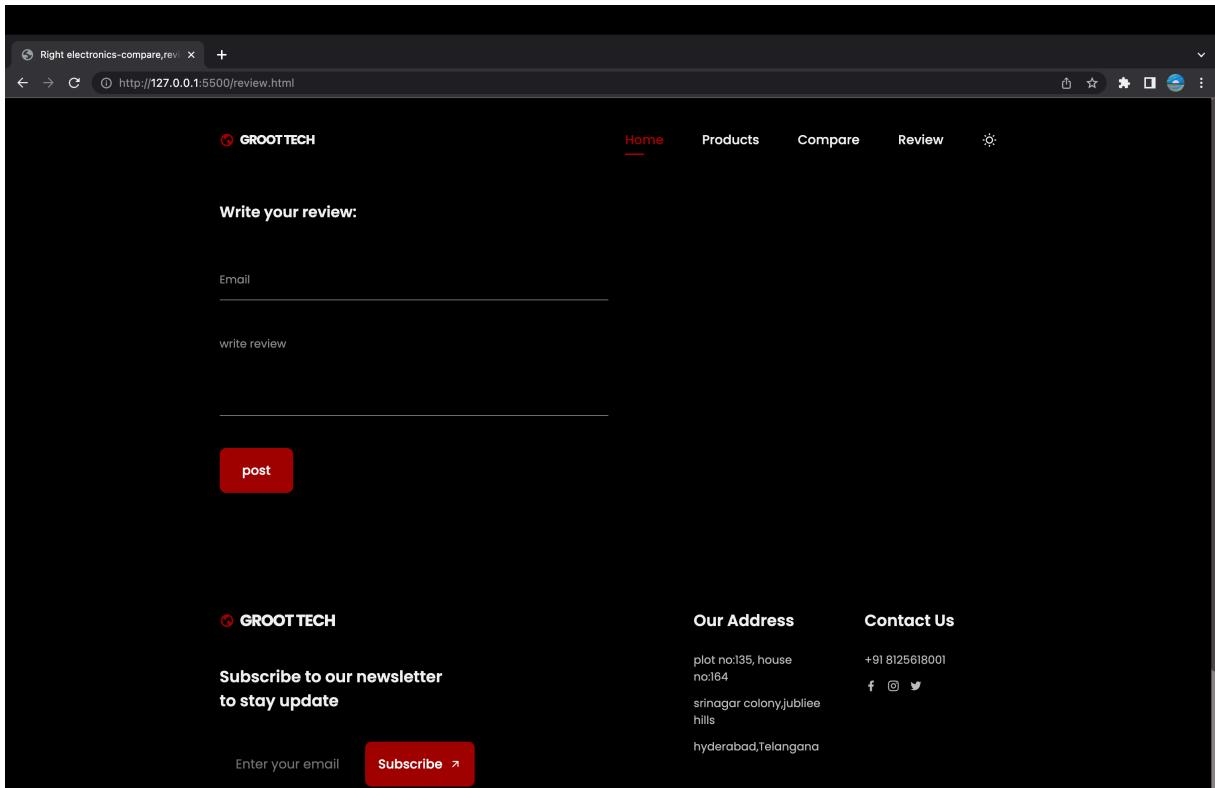
| Product Description | Apple iPhone 14 Pro Max price in india is Rs. 61,999. It has 6.1-inch (15.5 cm diagonal) Super Retina XDR display with Dual 12MP camera system (Ultra Wide and Wide) and 12MP TrueDepth camera | Google Pixel 7 Pro price in india starts from Rs. 83,999. It has 6.7 inches Quad HD+ display with 4926mAh battery and with Google Tensor G2 Processor |
|---------------------|--|---|
| STORAGE/RAM | 128GB, 256GB, 512GB, 1TB | 8GB LPDDR5X RAM, 128GB UFS3.1 STORAGE |
| Operating System | iOS | Android 13 |

REVIEW PAGE:

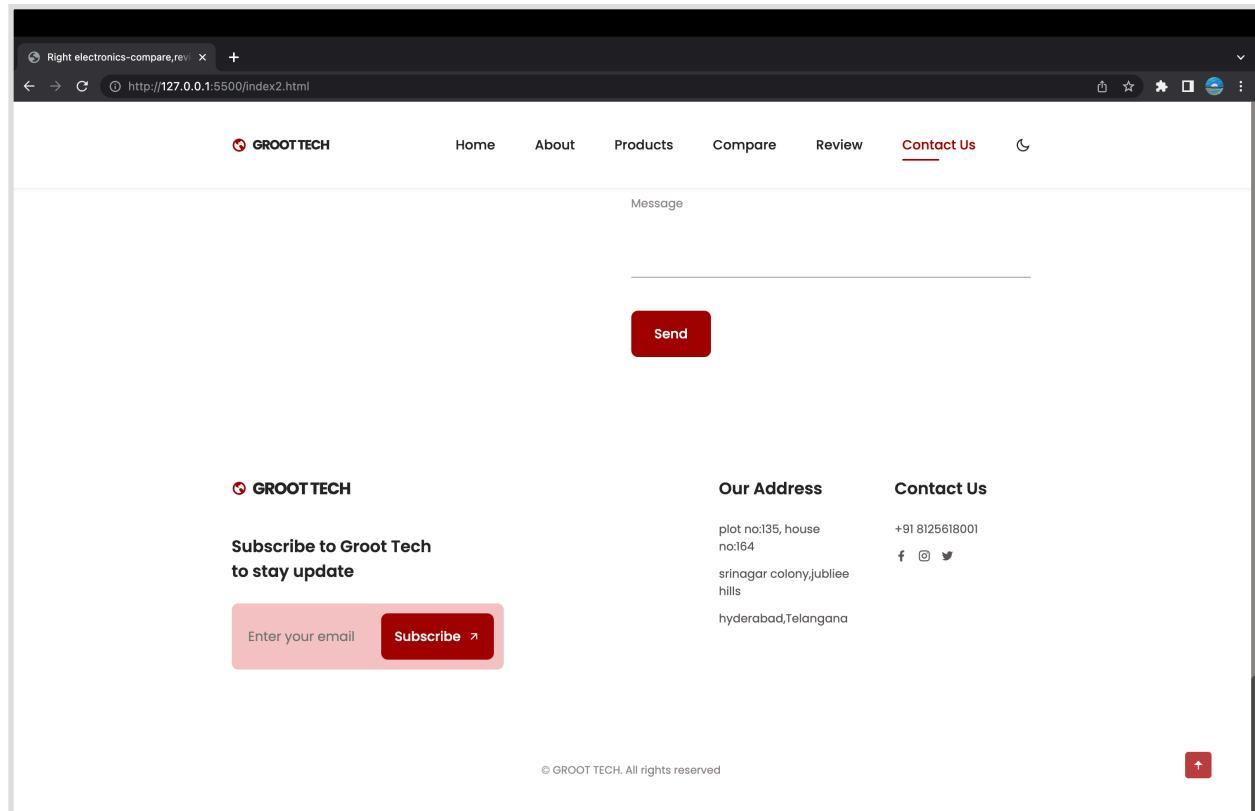
The screenshot shows a web browser window titled "Right electronics-compare,review" with the URL <http://127.0.0.1:5500/review.html>. The page is titled "Write your review:". It includes a "Email" input field, a "write review" text area, and a "post" button. At the bottom, there's a footer with the "GROOT TECH" logo, a newsletter sign-up form ("Subscribe to our newsletter to stay update"), and links for "Our Address" and "Contact Us".

Our Address
plot no:135, house no:164
srinagar colony,jubilee hills
hyderabad,Telangana

Contact Us
+91 8125618001
f @ t



FOOTER PAGE:



CHAPTER 8

References/Bibliography

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