**VETRI IT SYSTEMS PRIVATE LIMITED**

**PROJECT REPORT**

**PROJECT TITLE:**

**1. Project Overview**

**Project Name:**   
**Project Assigned Date:**   
**Planned Completion Date:**   
**Delivery Date:**

**2. Project Team**

* **Project Manager:** Maheshwaran S
* **Designer:** Malathi
* **Developer(s):**
* **Testing Team:** Yoga Varshini

**3. Technology Stack**

* **Frontend Technologies:** React.js, React Router, JavaScript, HTML
* **Design Enhancements:** Tailwind CSS
* **Infrastructure:** GitHub, Vercel (deployment)

**4. Project Scope**

The **SupplyHive E-Commerce Platform** is a sophisticated online retail solution designed to provide users with a seamless and engaging shopping experience for office, school, and stationery supplies. The platform offers a structured approach to product discovery through category-based browsing, advanced filtering by price and category, and interactive product pages showcasing detailed information, images, ratings, and bulk offers. Users can manage their purchases through a dynamic cart system, including visual feedback when items are added. Secure authentication mechanisms, including a login modal and protected routes, ensure that sensitive pages such as Billing, My Orders, and Order Tracking are accessible only to authorized users. The user interface is fully responsive, intuitive, and accessible, enabling smooth navigation across devices. Supporting pages such as About Us, Contact, Corporate, Careers, Teams, Help & Support, and Policy pages provide relevant information, guidance, and assistance. By integrating functionality, user engagement, and design excellence, the SupplyHive E-Commerce Platform establishes itself as a comprehensive and professional solution for online shopping in the office, school, and stationery supplies segment.

**Key Objectives:**

• Design a fully responsive e-commerce platform using React.js and Tailwind CSS, ensuring accessibility and an intuitive experience across mobile, tablet, and desktop devices.  
• Implement seamless navigation and routing across all pages such as Home, Office Basics, Files & Folders, Paper & Notebooks, Pens & Writing, School Supplies, Cart, Product Description, Billing, My Orders, Tracking, About Us, Contact, Corporate, Careers, Teams, Help & Support, Privacy Policy, Cookie Policy, and Login/Register using React Router.

• Display a visually appealing Home page highlighting featured products, trending items, promotional banners, and key categories.  
• Organize products into structured categories, including Office Basics, Files, Notebooks, Pens, and School Supplies, each with its own interactive listing and detail pages.  
• Develop detailed Product Description pages with high-quality images, pricing, reviews, and interactive controls for quantity adjustment and “Add to Cart” functionality.  
• Provide secure user authentication via context management, enabling protected access to certain features such as Billing, Order Summary, and Order Tracking.  
• Include a streamlined Billing Page with multiple payment method selection, order confirmation, and smooth checkout flow.

• Provide essential informational pages such as Terms & Conditions, Privacy Policy, Partnership, and Help & Support to ensure transparency and facilitate user engagement.  
• Integrate a Contact Page and additional support mechanisms to enhance direct communication with users.

**5. Project Modules**

• **Authentication Module**

* Provides user login, signup, and logout functionality using Context API and localStorage for session management.
* Ensures access control by restricting Billing, Order Summary, and Order Tracking pages to authenticated users only. Guest users are redirected to the Auth page.
* Maintains and displays the logged-in user’s state across the application, ensuring a seamless and personalized shopping experience.

• **Home Module**

* Displays an eye-catching banner and introduction to SupplyHive services.
* Features key highlights such as featured products, trending categories, and promotional offers.

• **Product Module**

* Dedicated section for all product listings, categorized into Office Basics, Files & Folders, Paper & Notebooks, Pens & Writing, and School Supplies.  
  o Submodules include:
  + **Product Description Page** — displays products with images, ratings, price, bulk offers, and “Add to Cart” functionality.

• **Cart Module**

* Enables users to add, remove, and update products in their shopping cart.
* Displays cart summary, total price, and bulk offers dynamically.

• **Billing & Payment Module**

* Provides a validated payment form with multiple payment options.
* On success, shows an acknowledgment modal and redirects to the Order Summary page.

• **Order Management Module**

* Provides a **My Orders Page** where users can view their complete order history, including product details, quantities, pricing, and order status.
* Includes **Order Tracking Page** for real-time updates on current orders, showing estimated delivery, shipping progress, and status notifications.

• **Category & Filtering Module**

* Organizes products into structured categories.
* Provides price filters, search functionality, and sidebar toggles for better product discovery.

• **Supporting Pages Module**

* Includes supporting pages to build trust and transparency, such as:  
   **About Us** — company mission, vision, and story.  
   **Contact Us** — direct communication channel with users.  
   **Terms & Conditions** — legal and compliance guidelines.  
   **Privacy Policy & Cookie Policy** — user data handling and security practices.  
   **Help & Support** — FAQs, troubleshooting, and guidance.

• **Navigation & Layout Module**

* Responsive Navbar and Footer for consistent layout across pages.
* Routing implemented with React Router for smooth transitions across all modules.
* Ensures user-friendly navigation and accessibility across devices

**6. Project Code**

**Frontend Code –** React.js, HTML, JAVASCRIPT

**Github - Coding link :**

**Coding Screenshot**

**7. Output & Screenshots**

**Vercel - Deployment link :**

**Output Screenshot**

**Home -**

**8. Conclusion**

The Supplyhive E-Commerce Website is a fully responsive online retail platform developed using React.js and Tailwind CSS, delivering an intuitive and seamless shopping experience for users. The platform features well-structured modules including user authentication with protected routes, product browsing across multiple categories such as Office Basics, Paper & Notebooks, Pens & Writing, and School Supplies, a functional shopping cart, and order management with real-time tracking. Users can filter products by price, view detailed product pages, and complete purchases securely through the payment module. With responsive design, easy navigation, and interactive features like “added to cart” notifications, the platform ensures a user-friendly experience across devices. Designed for scalability and enhanced user engagement, Supplyhive establishes a solid foundation for future enhancements such as advanced order analytics, personalized recommendations, and loyalty programs, positioning it as a comprehensive solution for digital retail and seamless online shopping.

**Prepared By:**   
**Date:**   
**Reviewed By:** Maheshwaran S  
**Approved By:** Maheshwaran S