

Technical Specification Documentation

For Vishak India Website

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1. Table of Contents

1. Introduction
2. Scope
3. Functional Requirements
4. Non-Functional Requirements
5. System Architecture
6. Data Model
7. User Interface (UI) Design
8. Security Considerations
9. Testing and Quality Assurance
10. Deployment and Maintenance
11. Risks and Assumptions
12. Timeline and Milestones
13. Glossary
14. References

2. Introduction

Overview

The project involves developing a user-friendly, accessible, and secure website for **Vishak India**, a company specializing in the **manufacturing of mosquito nets**, as part of their digitization initiative. The website will serve as a platform for users to explore mosquito net products, request quotes, and engage with the company through blogs, interactive elements, and direct communication via WhatsApp and phone calls.

Objectives

- Provide a simple and intuitive user interface with clear navigation.
- Enable users to discover mosquito net products easily using a powerful search bar and filters.
- Enhance user engagement through interactive elements like virtual product demonstrations.
- Ensure accessibility for users with disabilities by adhering to WCAG standards.
- Implement robust security measures to protect user data.
- Ensure compatibility across all devices and handle increased traffic for future scalability.

3. Scope

In Scope

- Development of the following pages:
 - Homepage

- Product Page (focusing on mosquito nets)
 - Blog Page
 - Company Policies Page
 - About Us Page
 - Dealers Page
 - Suppliers Page
 - Video Page
 - Gallery Page
- Implementation of a **floating WhatsApp icon** and **call button** for direct communication.
 - Integration of advanced analytics tools (Google Analytics, Adobe Analytics, Hotjar).
 - Inclusion of feedback forms and surveys for customer engagement.
 - Call-to-action (CTA) button for free quote requests.
 - Compliance with WCAG standards for accessibility.

Out of Scope

- Development of a mobile app.
- Integration with third-party e-commerce platforms.
- Offline functionality.

5. Functional Requirements

Homepage

- Hero section highlighting Vishak India's strengths (quality, pricing, certifications, fast shipping, raw materials used in mosquito net manufacturing).
- Display best-selling mosquito net products, contributions, areas serviced, and client details.
- Clear navigation to other pages.

Product Page

- Detailed descriptions of mosquito net products, including features, benefits, specifications, and price ranges.
- Installation instructions and demonstration videos.
- Filters for size, color, material, and product category.
- Separate form for dealer collaboration requests.

Blog Page

- Published blogs/articles related to mosquito nets, their benefits, and usage tips.
- Customizable viewing options for users.

Company Policies Page

- Terms and conditions, shipping, refunds, and cancellation policies.

About Us Page

- Company history, mission, vision, and values.
- Team members and their roles.

Dealers Page

- Information for dealers interested in collaborating with Vishak India.
- Form for dealers to submit their details and requirements.

Suppliers Page

- Information for suppliers interested in partnering with Vishak India.
- Form for suppliers to submit their details and offerings.

Video Page

- Collection of product demonstration videos, company promotional videos, and tutorials related to mosquito nets.

Gallery Page

- Image gallery showcasing mosquito net products, manufacturing processes, and company events.

Floating WhatsApp Icon and Call Button

- **WhatsApp Icon:** Allows users to initiate a chat with Vishak India directly via WhatsApp.
- **Call Button:** Enables users to make a direct phone call to Vishak India.
- Both buttons are always visible and float on the screen for easy access.

Quote Request Form

- Collects user details (Name, Phone, Email, Location, Product, Requirements).
- Limits users to one product quote at a time.

5. Non-Functional Requirements

- **Performance:** Fast loading times for all pages and products.
- **Security:** Robust measures to protect user data (e.g., encryption, secure authentication).
- **Scalability:** Ability to handle increased traffic and future growth.
- **Accessibility:** Compliance with WCAG standards.
- **Compatibility:** Responsive design for all devices (desktop, tablet, mobile).

6 System Architecture

Front-End

- **Technologies:** HTML, CSS, JavaScript.
- **Framework:** Bootstrap for responsive and mobile-first design.

Back-End

- **Technologies:** Drupal for content management and server-side logic.

Database

- **Database:** MySQL for storing customer data, product information, and other content.

Analytics

- **Tools:** Google Analytics, Adobe Analytics, Hotjar.

7. Data Model

- **Entities:** Users, Products (Mosquito Nets), Blogs, Quotes, Dealers, Suppliers, Videos, Gallery Images.
- **Relationships:**
 - Users can submit quotes.
 - Products can have multiple categories.
 - Blogs can be filtered by user preferences.
 - Dealers and suppliers can submit collaboration requests.
 - Videos and gallery images are linked to products or company events.

8. User Interface (UI) Design

- **Navigation:** Clear and intuitive menu structure.
- **Interactive Elements:** Virtual product demonstrations, filters, floating WhatsApp icon, and call button.

9. Security Considerations

- **Data Encryption:** SSL/TLS for secure data transmission.
- **Authentication:** Secure login mechanisms for admin access.
- **Compliance:** Adherence to GDPR and other relevant regulations.

10. Testing and Quality Assurance

- **Testing Types:** Unit testing, integration testing, user acceptance testing (UAT).
- **Tools:** Chrome Development Tools.
- **Acceptance Criteria:** All features must meet functional and non-functional requirements.

11. Deployment and Maintenance

- **Deployment:** Use CI/CD pipelines for automated deployment.
- **Hosting:** Cloud-based hosting (AWS, Azure, or Google Cloud).
- **Maintenance:** Regular updates and bug fixes.

12. Risks and Assumptions

- **Risks:**
 - Delays in development due to complex features.
 - Increased traffic causing performance issues.
- **Assumptions:**
 - Stakeholders will provide timely feedback.
 - Required third-party integrations will be available.

13. Glossary

- **WCAG:** Web Content Accessibility Guidelines.
- **CRM:** Customer Relationship Management.
- **CTA:** Call-to-Action.

14. References

- WCAG Guidelines: <https://www.w3.org/WAI/standards-guidelines/wcag/>
- Google Analytics: <https://analytics.google.com/>
- Hotjar: <https://www.hotjar.com>