**1. Project Planning:**

Goals for the website:

* Selling/ advertising brand
* One place to tell what we offer
* audience and their needs: customers, bulk buyers, product companies

Technology Stack:

* HTML5, CSS3, JavaScript, React for frontend,
* Springboot backend
* MongoDB backend

**2. Design:**

Wireframes and Mockups:

* Create wireframes to plan the layout and structure.
* Develop mockups for key pages using design tools like Figma or Sketch.

Responsive Design:

* Ensure the website is responsive for various devices (desktop, tablet, mobile).

**3. Frontend Development:**

HTML/CSS/JavaScript:

* Implement the website structure using HTML5.
* Apply styles with CSS3 for a visually appealing design.
* Enhance user interactions with JavaScript.

Frameworks:

* Consider using frontend frameworks like React for a more dynamic user experience.

**4. Backend Development:**

Server-side Scripting:

* Use Node.js or another suitable backend technology for server-side scripting.

Database Integration:

* Implement a database system (e.g., MongoDB, MySQL) to store and retrieve relevant data.

API Development:

* Develop APIs to connect the frontend and backend, allowing data exchange.

**5. Features and Functionality:**

Product Catalog:

* Create a product catalog to showcase the company's manufacturing capabilities.
* Include high-quality images, detailed descriptions, and specifications.

Contact Form:

* Implement a contact form for inquiries, quotes, or customer support.

User Authentication:

* If needed, implement user authentication for secure access to specific sections.

News and Updates:

* Include a section for company news, updates, or blog posts to keep users informed.

**6. Performance Optimization:**

Page Speed:

* Optimize images and code for faster page loading.

SEO:

* Implement SEO best practices for better search engine visibility.

**7. Testing:**

Cross-Browser Testing:

* Ensure compatibility with major browsers (Chrome, Firefox, Safari, Edge).

User Testing:

* Conduct usability testing to gather feedback on user experience.

**8. Deployment:**

Hosting:

* Choose a reliable hosting service (e.g., AWS, Heroku) based on the website's needs.

Domain Setup:

* Configure the domain name for the website.

**9. Maintenance:**

Regular Updates:

* Schedule regular updates for security patches and new features.

Monitoring:

* Implement monitoring tools to track website performance.

**10. Security:**

SSL Certificate:

* Install an SSL certificate to secure data transmission.

Data Encryption:

* Implement encryption methods to secure sensitive information.