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ABSTRACT:

The "Steel Store Website" project revolutionizes the traditional process of ordering steel products by introducing an intuitive online platform. This website simplifies the buying experience for dealers and buyers by offering a curated product catalog organized by categories. Users can effortlessly navigate the website, select their desired steel products, specify size and properties, and complete their purchase with just a few clicks.

To enhance user experience and accessibility, the website features a helpful Chatbot, Category wise product listing, easy payment methods. This solution streamlines the steel purchasing process, saving time and offering a more convenient and efficient way to procure steel products.

INTRODUCTION:

The "Steel Store Website" project was developed to address the challenges associated with the traditional method of purchasing steel products, which often involved manual calling and ordering. This web-based platform aims to eliminate or significantly reduce the difficulties encountered in the conventional process.

Our system is tailor-made to meet the specific needs of dealers and buyers in the steel industry, ensuring smooth and effective operations. The website's user interface has been optimized to minimize errors during data entry and provide real-time error messages for invalid inputs. The platform is designed to be user-friendly, requiring no formal knowledge for operation.

In the steel industry, organizations frequently face human resource challenges, particularly in managing employee payroll and technician assignments. To meet these challenges, we have developed an exclusive Employee Database Management System that can be customized to the unique managerial requirements of each organization.

PURPOSE:

This document serves to outline the functionality and specifications of our web application designed for managing the purchase of steel products, handling payroll, addressing hardware problems, and managing technicians. The intended audience for this document includes web application developers and administrators.

With the implementation of this system, administrators will have critical information at their fingertips, enabling them to maintain comprehensive records tailored to their specific needs. This system not only automates processes but also optimizes the time and resources of administrators, creating a significant advantage for management.

In conclusion, the "Steel Store Website" project redefines the steel procurement process, making it more convenient and efficient for dealers and buyers. The user-friendly interface, categorized product catalog, and interactive chatbot ensure a seamless experience, simplifying the selection and purchase of steel products. This innovation not only improves efficiency but also enhances the overall purchasing experience for users, contributing to the success of steel-related businesses.

MODULES:

ADMIN:

The admin gets logged in by valid username and password.

Admin can view current order details, can change order status from processing to shipping to out for delivery, can add or remove products, can modify the comments in case of any false entry, and can export the data to excel files to be sent to delivery and manufacturing partners.

If the user reports any defect, then a return can be initiated by the admin portal. That gets saved in the database and the user can track the return status on their 'my orders' page. The admin can view all the past records of any registered customer.

User:

The user can register and login using the profile button. On successful login, their database will be created in the backend and the details regarding their orders, wishlist, cart items will be saved.

User can select their desired category then can wishlist any of the listed products from the next page. On selecting its dimensions, the price will be visible to the user along with an 'Add to cart' button.

While buying, the user can apply coupon code, and can select their suitable payment method: COD or via credit/debit card.

All their details including order status are available on their dashboard page which can be accessed from the profile button at the top right.

PROJECT CATEGORY:

E-Commerce website with Chatbot support

TECHNOLOGIES USED:

- 1) Frontend:
 - a) Woostify theme from Wordpress
 - b) Elementor for frontend
 - c) Custom CSS for manual changes
- 2) Backend:
 - a) WooCommerce built in backend system.
 - b) Data storage on infinityfree servers.
- 3) ChatBot:
 - a) Chatbase API integration
 - b) Trained on the SteelStore website's data
- 4) Payment:
 - a) Razor Pay API integration

- 5) Hosting provider:
 - a) Infinityfree.com
- 6) Hardware specification and Operating System:
 - a) Processor: Core i5
 - b) RAM: 8 GB
 - c) Hard Disk: 1 TB
 - d) SSD: 256 GB
 - e) Operating System: Windows 10

Wordpress Plugins used:

- Elementor
- Nextend Social Login
- Razorpay for WooCommerce
- Custom JavaScript
- Tidio Chat
- WooCommerce
- WP Dark Mode
- WP-Optimize - Clean, Compress, Cache

ADVANTAGES:

- a. **Simplified Procurement:** The website streamlines the steel procurement process, allowing users to easily browse, select, and purchase products by category, size, and properties.
- b. **Enhanced User Experience:** Curated product listings and a user-friendly interface make it convenient for both dealers and buyers to find and order steel products.
- c. **Responsive design :** User can access the site through any device of their choice without a lag.
- d. **Time Efficiency:** Users can complete transactions swiftly, reducing the time spent on manual ordering and paperwork.
- e. **24/7 Accessibility:** The website is available around the clock, providing users with the flexibility to place orders at their convenience.
- f. **Interactive Chatbot:** The Chatbot assists users with text-based guidance, improving navigation and addressing queries in real-time.
- g. **Secure payment:** RazorPay provides a secure interface for online transactions which avoids security risks.

DISADVANTAGES

- a. **Technical Issues:** Server downtime and loading speed may temporarily disrupt the website surfing process.
- b. **Learning Curve:** Some users, particularly those less familiar with online shopping, may initially find the platform challenging to navigate.
- c. **Dependence on Internet:** Users require a stable internet connection, which may be unavailable in certain areas or situations.

FEASIBILITY STUDY

Technical Feasibility:

The "Steel Store Website" is highly technically feasible. The software seamlessly integrates with modern web technologies, ensuring that it fulfills the needs of both users and administrators effectively.

Key technical requirements for this system include:

- **Timely Output Production:** The website is designed to generate the desired output promptly, ensuring a swift buying process for users.
- **Responsive Design:** It adapts to various screen sizes and devices, guaranteeing a consistent user experience.
- **Data Processing Speed:** The system efficiently processes data, allowing users to browse and purchase steel products quickly.
- **Admin portal** includes the details of all the orders by different customers and is able to forward the order details to different tenders/manufacturers and delivery partner.

Financial Feasibility:

The "Steel Store Website" project is not only technically sound but also financially feasible. The costs associated with developing and implementing this software are well within the budget of businesses in the steel industry.

Furthermore, training costs are minimal as the platform is designed to be user-friendly, requiring little to no formal training. The necessary resources, including hardware and hosting, are readily available and affordable.

One of the significant financial benefits of this system is its potential to reduce labor costs and extra expenses associated with traditional procurement methods. By streamlining the purchasing process, it optimizes resource allocation and saves both time and money.

In conclusion, the "Steel Store Website" project is both technically and financially feasible. Its technical capabilities, alignment with modern web standards, and cost-effectiveness make it a viable solution for steel dealers and buyers, revolutionizing the way steel products are procured and enhancing the overall efficiency of businesses in the industry

Resources: As motioned earlier that the resources are easily available and the cost of training is almost negligible. Sometimes situations may arise when it may not be so much easy. For a person completely unaware of using a computer system could result in a training cost or for a very small organization the purchase of a computer, installment of the system and other charges may lead to a difficult matter.

Building the software for meeting the scope:

The development of the software for the "Steel Store" website is focused on delivering a streamlined and user-friendly experience that significantly simplifies the traditional process of purchasing steel products. With a straightforward "select-pay-buy" process, the software ensures a seamless and efficient transaction.

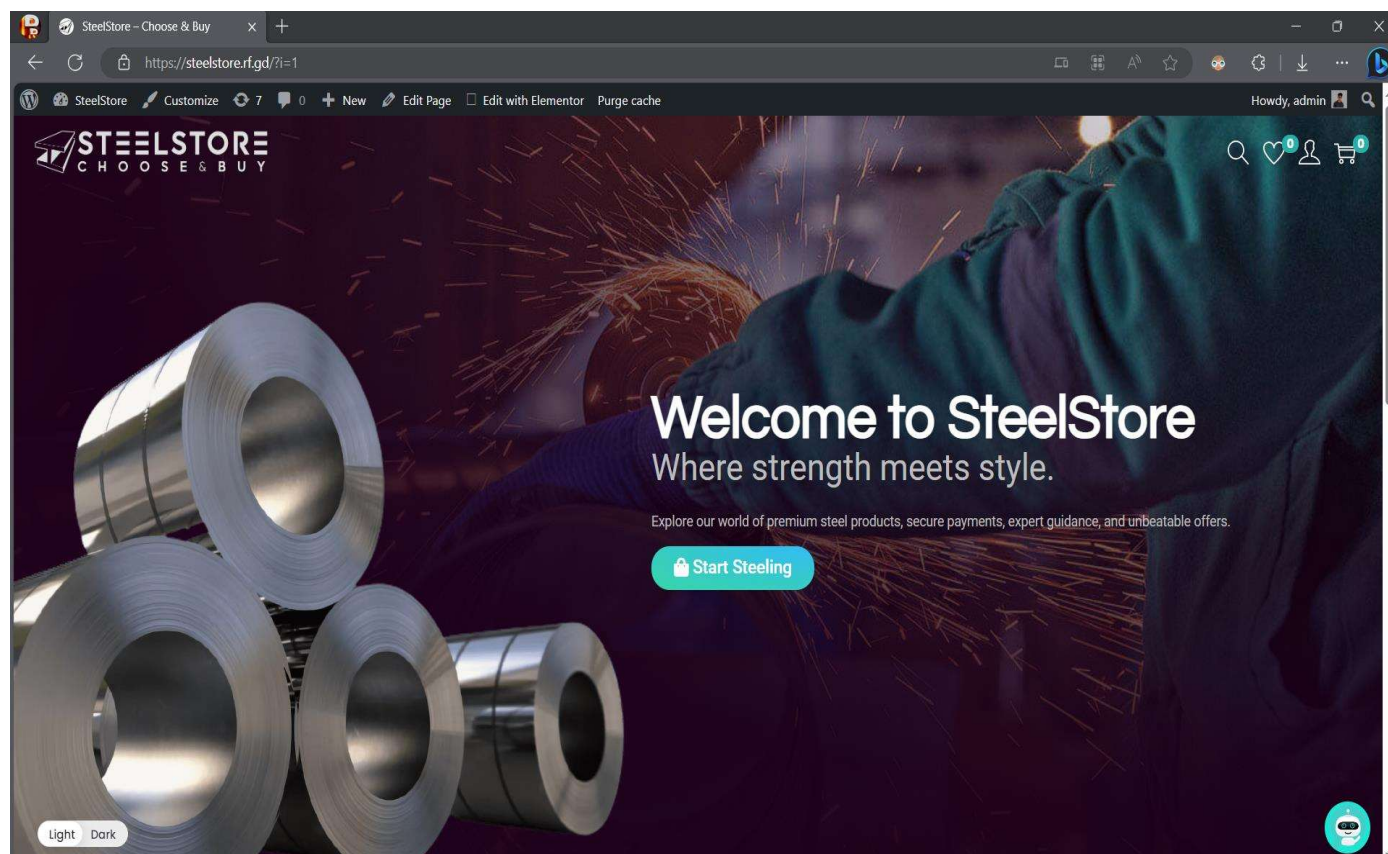
Moreover, the inclusion of a chatbot, which users can interact with through text-based conversations, adds an extra layer of convenience, providing guidance and assistance throughout their navigation of the website. The software's development aligns perfectly with the project's scope of making steel procurement faster, simpler, and more accessible.

STEELSTORE UI/UX GUIDE

Website URL: <https://steelstore.rf.gd/>

This is the landing page of the website.

One can “Start steeling” right away, with just one click on the blue button.



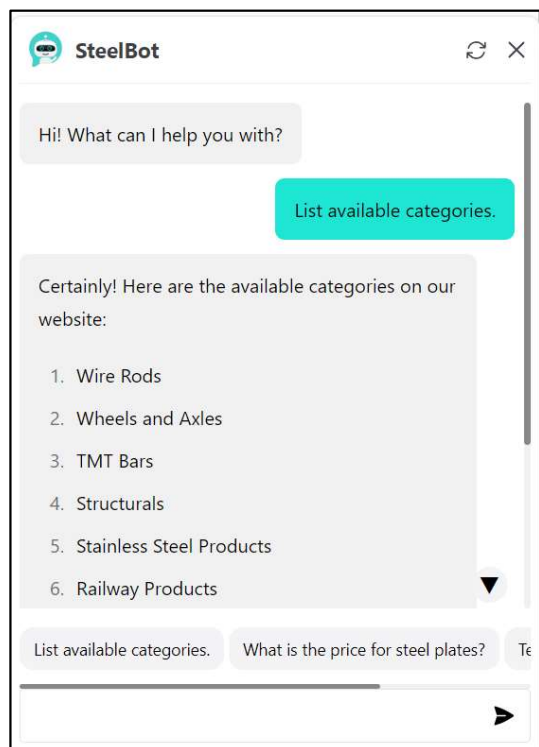
At the top right corner, user can avail the search, wishlist, profile, and cart features. As the user scrolls down below, they are greeted by a plethora of product categories.

FEATURES OF SteelStore:

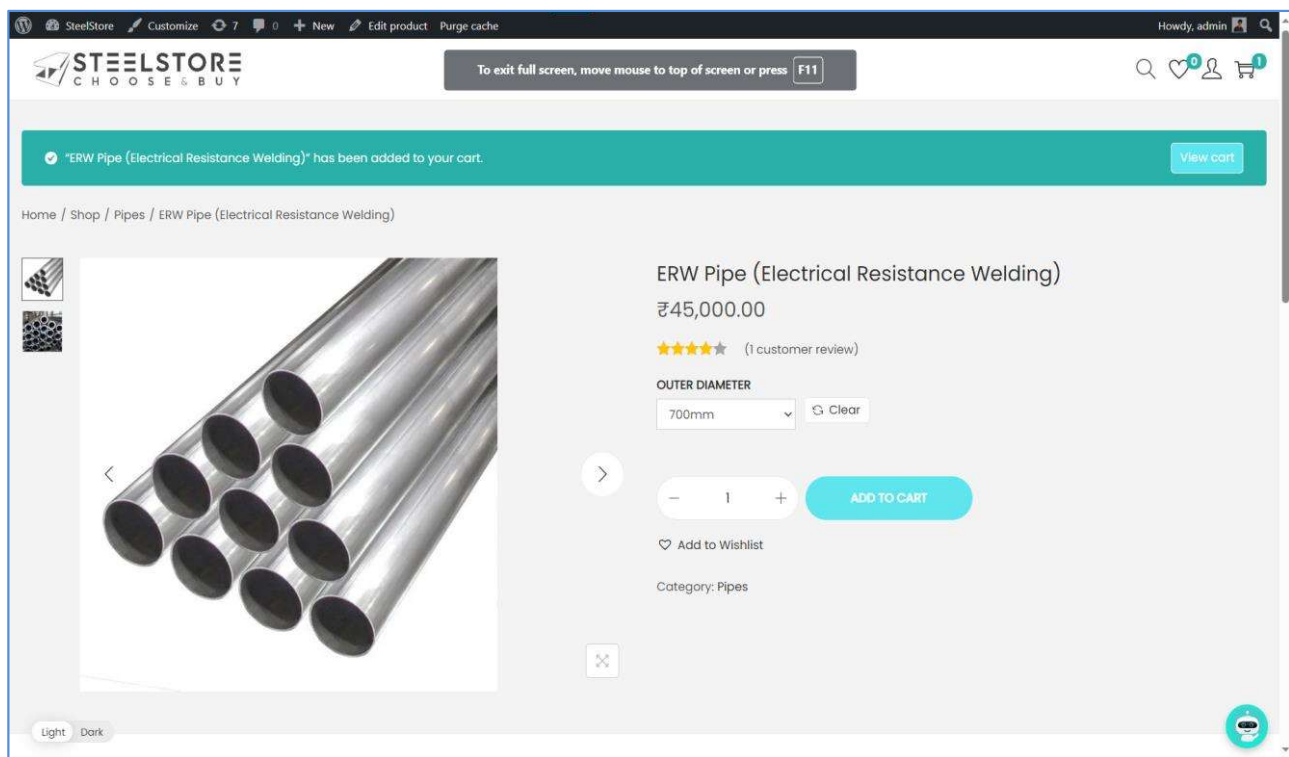
As we scroll through the website, the landing page shows the user multiple categories to choose from. This is listed as “Shop by Category”



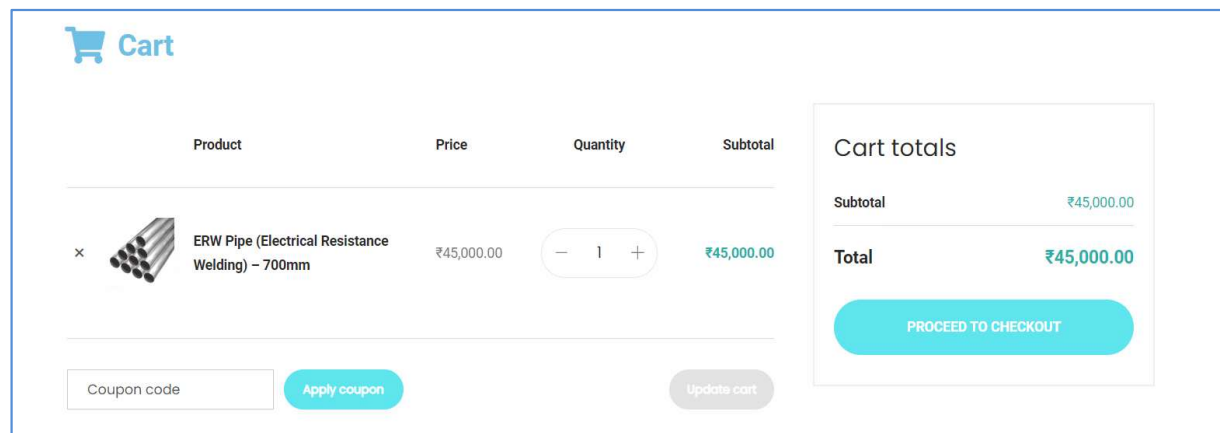
The same can be enquired of our Chatbot. The bot provides pre-defined options to help user choose one and proceed. The interface looks like below:



User can individually click on a product of their choice and know further details, including the product dimensions and price point for the selected dimension. It is at this page that the user can easily “Add to Cart” the same. The page also provides a “wishlist” feature.



At the cart page, user can also avail a coupon code, and “apply coupon” to get some discount as applicable. Thereafter, they can easily ‘proceed to checkout’.



Below is the checkout page. User needs to fill their details like Name, contact and address. And simply click on the “Place Order” button to place an order.

STEELSTORE
CHOOSE & BUY

🔍

👤

🛒

Checkout & Confirmation

Have a coupon? [Click here to enter your code](#)

First name *

Last name *

Country / Region *

India

Street address *

House number and street name

Apartment, suite, unit, etc. (optional)

Town / City *

State *

Delhi

PIN Code *

Phone *

Email address *

PRODUCT

SUBTOTAL

ERW Pipe (Electrical Resistance Welding)
- 700mm × 1

₹45,000.00

Subtotal

₹45,000.00

Total

₹45,000.00

☒ Cash on delivery

Pay with cash upon delivery.

☐ Credit Card/Debit Card/NetBanking

Pay by Razorpay

Your personal data will be used to process your order, support your experience throughout this website, and for other purposes described in our privacy policy.

☐ I have read and agree to the website terms and conditions *

PLACE ORDER

The next page looks something like this. Accessed in dark mode:

SteelStore

Customize

7

0

New

Edit Page

Edit with Elementor

Purge cache

Howdy, admin

Checkout & Confirmation

Thank you for shopping with us. Your account has been charged and your transaction is successful. We will be processing your order soon.

Order number:

882

Date:

September 29, 2023

Total:

₹45,000.00

Payment method:

Cash on delivery

Pay with cash upon delivery.

ORDER DETAILS

PRODUCT

TOTAL

ERW Pipe (Electrical Resistance Welding) – 700mm × 1
Outer Diameter: 700mm

₹45,000.00

Subtotal:

₹45,000.00

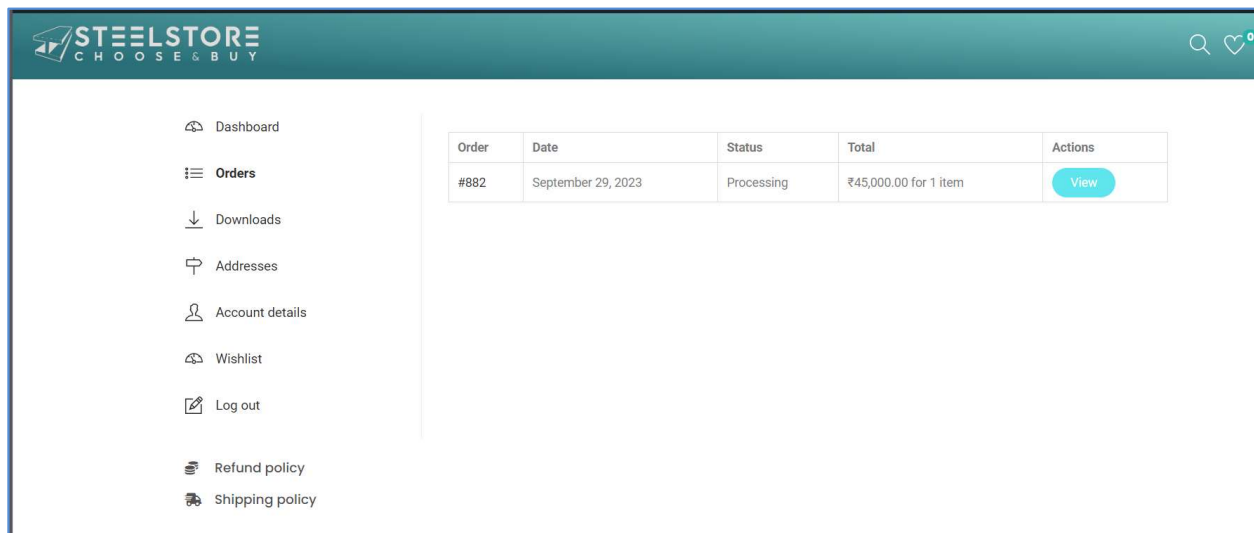
Payment method:

Cash on delivery

TOTAL:

₹45,000.00

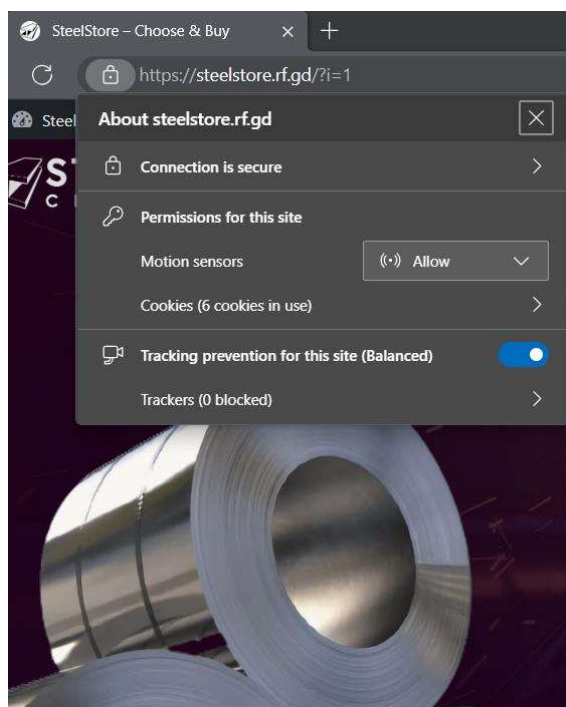
From the 'Profile' icon at top-right, user can access their Dashboard, and view their latest orders. This is beneficial to track order status:



ADDITIONAL FUNCTIONALITIES

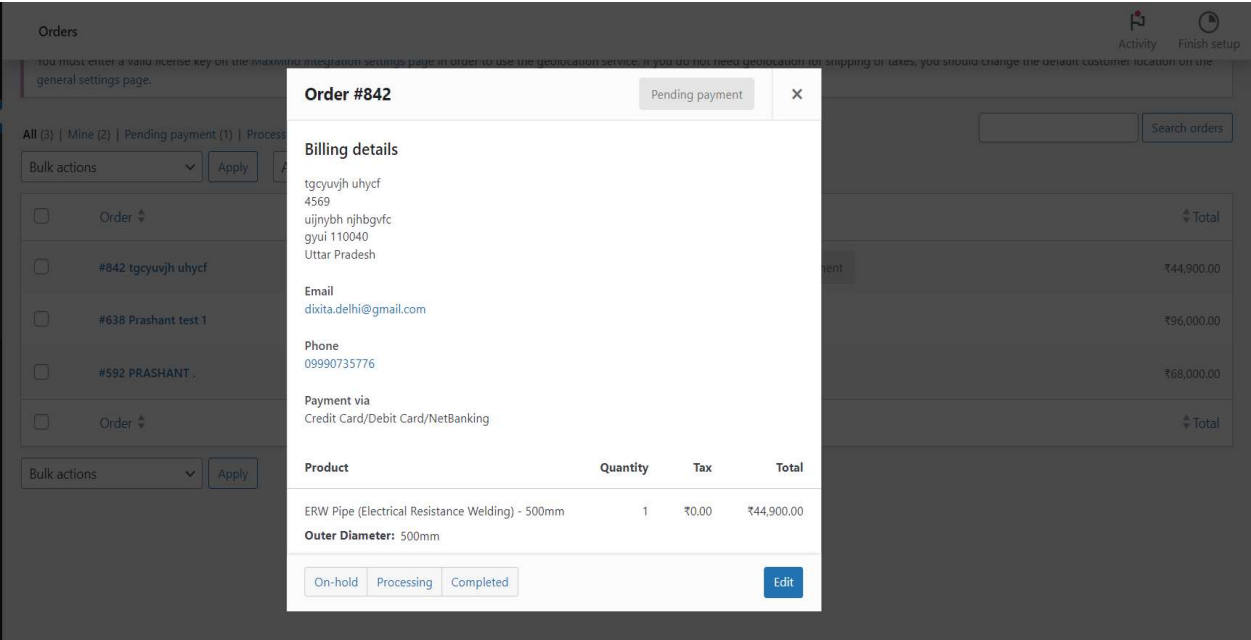
The website is secure with an SSL certificate.

One can access the website in both light and dark modes, and easily switch between the two, using a toggle, located at the bottom left.

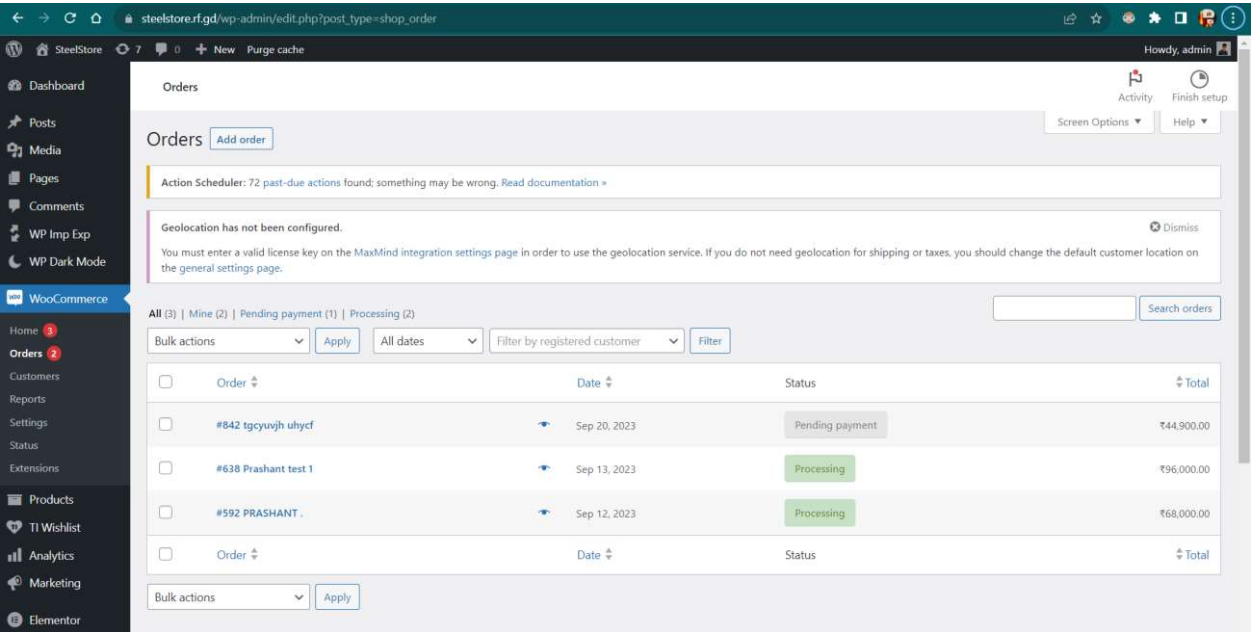


ADMIN SIDE

Admin can view and send all the order details when necessary.



Admin can view all the orders – past and present – with date of order, order status and prices at this page.



CONCLUSION

The "**SteelStore**" website project revolutionizes the steel procurement process, simplifying it for dealers and buyers through a user-friendly platform.

It enhances efficiency, reduces time, and offers 24/7 access to curated product categories.

While demonstrating technical and financial feasibility, the project leverages state-of-the-art technologies and features a Chatbot for user guidance.

This project is built keeping in mind that it is to be used by a large number of users including the admin.

This project, equipped with a range of user-friendly features, demonstrates the power of technology to quickly enhance efficiency and convenience.