**Project Report**

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| Title | Secure TCP Reverse Tunneling via SSH on Cloud VPS for NAT/Firewall Traversal |

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| Review No. | Date | Review Title | Signature | Remark |
| 1. | 28-Aug-24 | Project Title, Organisation and tools |  |  |
| 2. | 12-Sep-24 | Abstract |  |  |
| 3. | 03-Oct-24 | System Study |  |  |
| 4. | 24-Oct-24 | System Design |  |  |
| 5. | 05-Dec-24 | Development Stage - I |  |  |
| 6. | 20-Jan-25 | Development Stage - II |  |  |
| 7. | 20-Feb-25 | Development Stage - III |  |  |
| 8. | 12-Mar-25 | Rough copy submission with Demo |  |  |
| 9. | 28-Mar-25 | Mock Viva voce |  |  |
| 10. | 04-Apr-25 | Fair Copy Submission |  |  |

**Title:**

Step-upWholesale

**Organisation:**

Saleem Traders, No. 201, Raja Mill Road

Pollachi

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| --- | --- |
| Frontend | HTML |
| Design | Bootstrap CSS |
| Backend | PHP |
| Database/ORM | MySQL |
| Version Control | Git/Github |

**Tools:**

**Abstract:**

This project focuses on developing a comprehensive website for a

wholesale footwear shop where the admin can manage users and footwear

stock. The platform enables the admin to create user accounts for retail

footwear shop owners. Each retailer is given a unique ID and password to log

in and view available footwear stock, place orders, and track their purchases.

The admin has control over user management, stock inventory, and order

tracking, making the platform a centralized solution for wholesale transactions.

This website simplifies the wholesale process, improves efficiency in stock

management, and provides a seamless experience for both the admin and

retail users.

**Modules/Services:**

**Admin Module:**

* User Management
* Footwear Inventry Management
* Order Management
* Report and Analysis

**User Module:**

* User Authentication
* Browse and Search Footwear
* Order Placement
* Order Tracking
* Feedback and Support

### **SYSTEM STUDY**

**Existing System:**

The current system for managing wholesale footwear transactions is largely manual, relying on traditional methods such as, Stock is managed through physical records or spreadsheets, which are prone to human error. Retailers place orders via phone or email, leading to potential miscommunication and delays. Admins manually manage retailer details, which makes it difficult to handle large numbers of users efficiently. Retailers do not have a platform to view stock in real-time, check availability, or track their orders.

**Drawbacks of the Existing System:**

* **Inefficiency:** Manual processes consume significant time and effort for admin and retailers.
* **Human Errors:** Prone to mistakes in stock management, order handling, and user details.
* **No Real-Time Updates:** Retailers cannot see real-time stock levels or track their orders effectively.
* **Miscommunication:** Orders placed via phone or email can result in errors or misunderstandings.
* **Scalability Issues:** Difficult to handle an increasing number of users and orders.
* **No Data Security:** Sensitive user and order information may be exposed due to lack of secure storage and access controls.

**Proposed System:**

The proposed system introduces a web-based platform for the wholesale footwear business. It aims to streamline operations through automation and real-time data management. Key features include, Admin functionalities such as, Create and manage retailer accounts with unique credentials. Add, update, and delete footwear stock with real-time availability updates. Manage and track orders placed by retailers. Retailer functions such as, Secure login with admin-provided credentials. Browse footwear stock, view detailed product information, and check availability. Place orders online and track order status in real-time. Access order history and manage account details.

**Advantages of the Proposed System:**

* **Efficiency**: Automates repetitive tasks such as user management, stock updates, and order tracking.
* **Real-Time Updates:** Retailers can access live stock data and track orders instantly.
* **Error Reduction:** Eliminates manual errors in stock and order handling.
* **User-Friendly Interface:** Simplifies interactions for both admin and retailers,reducing training requirements.
* **Data Security:** Implements secure authentication and encrypted storage for user and transaction data.
* **Scalability**: Can handle an increasing number of users, orders, and products.
* **Improved Communication:** Ensures clarity in order placement and status updates through automated notifications.
* **Reports and Analytics:** Allows the admin to generate sales and stock reports for better decision-making.