

INTRODUCTION

1.1 ABOUT THE PROJECT

This project is centered around the creation of a fully functional Online Shoe Laundry Management System, which provide comprehensive care and expert cleaning. In this age dominated by technology and interconnectedness, shifting the home appliances store online is essential for maximizing efficiency and customer satisfaction. By offering specialized cleaning, repair and protection service, the system aims to extend the lifespan of shoe, enhance their appearance and improve overall customer satisfaction

Customers have the option to explore the services by utilizing the service page that describes various services. The administrator will have extensive control, overseeing all processes within the system. Customers visiting the website will have the opportunity to view and book various services based on their shoe type and material. This user-friendly system requires minimal maintenance, creating ample opportunities for online business and marketing strategies.

**REQUIREMENT ANALYSIS AND
SPECIFICATION**

2.1 SYSTEM STUDY

In the era of digital convenience, the Shoe Laundry Management System endeavors to transform the laundry experience for customers. It provides comprehensive care and expert cleaning for customer's shoe. It outlines services like cleaning and repairing shoes, explores ways to earn money, and describes how customers will place orders and how shoes will be picked up and delivered.

2.1.1 Existing System

The existing system is based on manual work and all the process are done manually, so they maintain registers and files for recording the details of the system. They maintain several registers for recording the entry of daily transactions such as billing of products to clients etc. They keep the bill book or cash book to maintain the record for each sale of the product or transaction in the system. In current system billing is manual and time consuming and use manual searching of items on shelf because of a manual system. Also, there is difficulty for the store to check the stock and retrieve the necessary data from the manually based data system. So generally, the current system does not arrange the items in systematic way and tracking of order is difficult. The manual system also implies that the appointments are manually written down and the staff calls every customer to remind them when the next appointment is scheduled.

2.1.2 Proposed System

The proposed system is interactive, user friendly and designed exclusively for the shoe laundry. The online shoe laundry store is a database system that is used to store the information regarding customer details, staff details, order details etc. The system manages a well organized database for storing the resources. This helps us to eliminate the entering of invalid data. Most problems of manual system can be solved. The computerization of the system allows the easy maintenance of the details. Large amount of data can be stored easily. In addition, updating and other changes can be done. The information can be retrieved with high speed and accuracy.

2.1.3. Feasibility Study

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, time and effort spent on it. Study lets the developer foresee the future of the project and its usefulness. Finding out whether a new system is required or not. The study is carried out to the best system that meet performance requirement. This entails identification, description and evaluation of candidate system and selection of the best system for the best system for the job. It simply identifies whether the proposed system is feasible to the organization or not.

There are three aspects in the feasibility study portion of the preliminary investigation

- Technical feasibility
- Economic feasibility
- Operational feasibility

2.1.3.1 Technical Feasibility

The system must be evaluated from technical viewpoint first. The assessment of this feasibility must be based on outline design of the system requirement in the terms of input, output, programs and procedure having identified an outline system, the investigation must go on to suggest the type of equipment, required method of developing the system, method of running the system once it has been designed. The project should be developed such that the necessary functions and performance are achieved within the constraints. The project is developed with latest technology. There are only minimal constraints involved in this project.

2.1.3.2 Economic Feasibility

Here an evaluation of development cost weighted against the ultimate income or benefit derived from the developed system. The cost for the development of the project has been evaluated and we want to check that the cost does Not exceed beneficial cost of the system. The economic and financial analysis is used for evaluating the effectiveness of the candidate system. This project also undergone economic feasibility study and found that it is feasible. So, the cost for development does Not exceed its beneficial cost. This brought to as the conclusion that the system is economically feasible in the context

2.1.3.3 Operational Feasibility

In operational feasibility the entire application is checked whether the system will be used if it is developed and implemented. Also, it is checked whether there will be resistance from user that may undermine the possible application benefits. There is no barrier for implementing the system. The system also helps to access the information immediately as need arises. Thus, the system is found to be operational feasible.

2.2. USER CHARACTERISTICS

The Shoe Laundry Management System is a user-friendly system designed to serve the customers better. This organized structure ensures smooth operations and great user experiences. The platform is designed to accommodate:

2.2.1 Administrator

2.2.2 Staff

2.2.3 Customer

2.2.1 Administrator

Admin is the super user and main controller of the system. Administrator controls all the activities of the store. Admin can add and view the staff. He/she can add the services. Admin can view the orders and can assign it to active employees. Admin can generate monthly reports.

2.2.2 Staff

Staff are responsible for maintaining the system. Staff members have fewer privileges than administrators but more than regular customers. They can edit, and view their details, manage order information. Staff members' responsibilities include managing their team's details under the administrator's supervision.

2.2.3 Customer

Customers have limited access and can use the system to view product details, prices, and other relevant information. They can add desired items to their cart, make purchases using debit or credit cards, and modify the cart contents before finalizing the purchase. Customers access the system by registering an account.

2.3 SYSTEM SPECIFICATION

2.3.1 Hardware Specification

The selection of hardware is very important for the existence and proper working of any software. When selecting the hardware, the size and capacity requirements are also noted. Below are the hardware specifications required by the system.

Processor	Intel Core i5-1021 1.60GHz
RAM	4 GB or above
Storage	512 GB or above
Other	Keyboard and Mouse

2.3.2 Software specification

Operating System	Windows 8.1/10 /11
Front End	PHP
Back End	MySQL

2.3.3 About the Software Tools and Platform

FRONT-END SPECIFICATION: PHP

PHP, short for PHP Hypertext Pre-processor, is a versatile programming language enabling web developers to create dynamic content that interacts with databases. Operating as a server-side scripting language embedded in HTML, PHP facilitates the management of dynamic content, databases, session tracking, and even the development of entire e-commerce sites. It seamlessly integrates with popular databases like MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. PHP boasts support for major protocols such as POP3, IMAP, and LDAP. With PHP4, the language expanded its horizons by incorporating support for Java and distributed object architectures (COM and CORBA), opening doors for n-tier development possibilities.

BACK-END SPECIFICATION: MYSQL

A database functions as a distinct application that stores data collections. Each database features specific APIs for creating, accessing, managing, searching, and replicating stored data. While other data storage methods like file systems or large hash tables in memory are conceivable, their usage would not match the speed and efficiency of data retrieval and writing achieved through databases like MySQL.

SYSTEM MODELING

3.1 MODULES AND DESCRIPTION

The online shoe laundry store provides comprehensive care and expert cleaning of the customers shoes. There are several modules in this system. They are:

1. Inventory Management
2. Employee Management
3. Customer Registration
4. Order Management
5. Shoe Management
 - 5.1 Type Management
 - 5.2 Shoe Management
6. Payment Management

1. INVENTORY MANAGEMENT

This module track and update inventory of cleaning products like cleaning cloth, polish, brush and equipment to clean and maintain various types of shoes and store details of the vendor.

2. EMPLOYEE MANAGEMENT

This module manages the details of the employees of the system. This is done by the admin. Admin can add and view the details of the employee. Employee details like employee id, employee name, employee address etc. are stored using this module. Employee can view and edit their details. The employee picks the order from the customer and delivers back after service.

3. CUSTOMER REGISTRATION

This module is for manages registration of the customer to the system. It can store customer details like name, address, contact number etc. Customer can view and edit their personal details.

4. ORDER MANAGEMENT

This module deals with capturing of new orders, monitor order progress through stages like inspection, cleaning, drying and quality check, tracking past orders and communication with customer including notification.

5. SHOE MANAGEMENT

This module manages the details of the shoes that the customer books for service. Customer can store the shoe type and material type at the time of booking service.

5.1 TYPE MANAGEMENT

This module manages the details of shoe type. Customer can add and view shoe type at the time of booking.

5.2 MATERIAL MANAGEMENT

This module manages the details about the materials details of the customer's shoes. Customer can add and view shoe type at the time of booking.

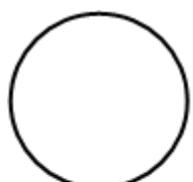
6. PAYMENT MANAGEMENT

This module facilitates the online payment process for customer. Customers are required to complete the payment after booking the service. The customer can make payments using 3 methods. They also can view the payment details.

3.2 DATA FLOW DIAGRAM

A data flow diagram (DFD) is a graphical tool used to illustrate and analyze the movement of data within a system. It serves as a fundamental tool from which other components of the system are developed. DFDs describe the logical flow of data between various elements in a system, such as people, departments, and workstations, independently of the physical components. These diagrams, often referred to as "bubble charts," are crucial for understanding system requirements and identifying key data transformations that will be translated into programs during system design. DFDs consist of interconnected bubbles representing processes, data sources or destinations, data stores, and information or data lines.

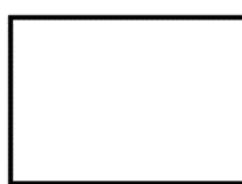
The four symbols used for drawing DFDs are:



Process (or Function)



External Entity



Data Store

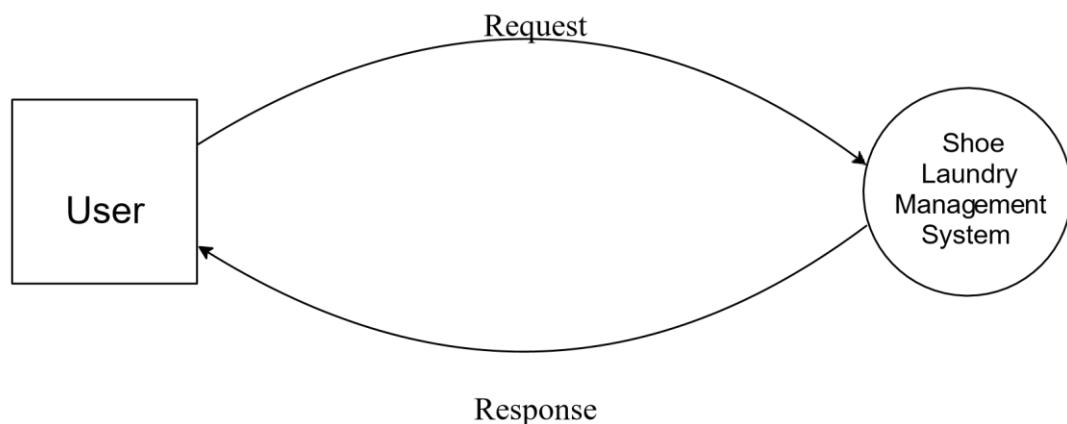


Data Flow

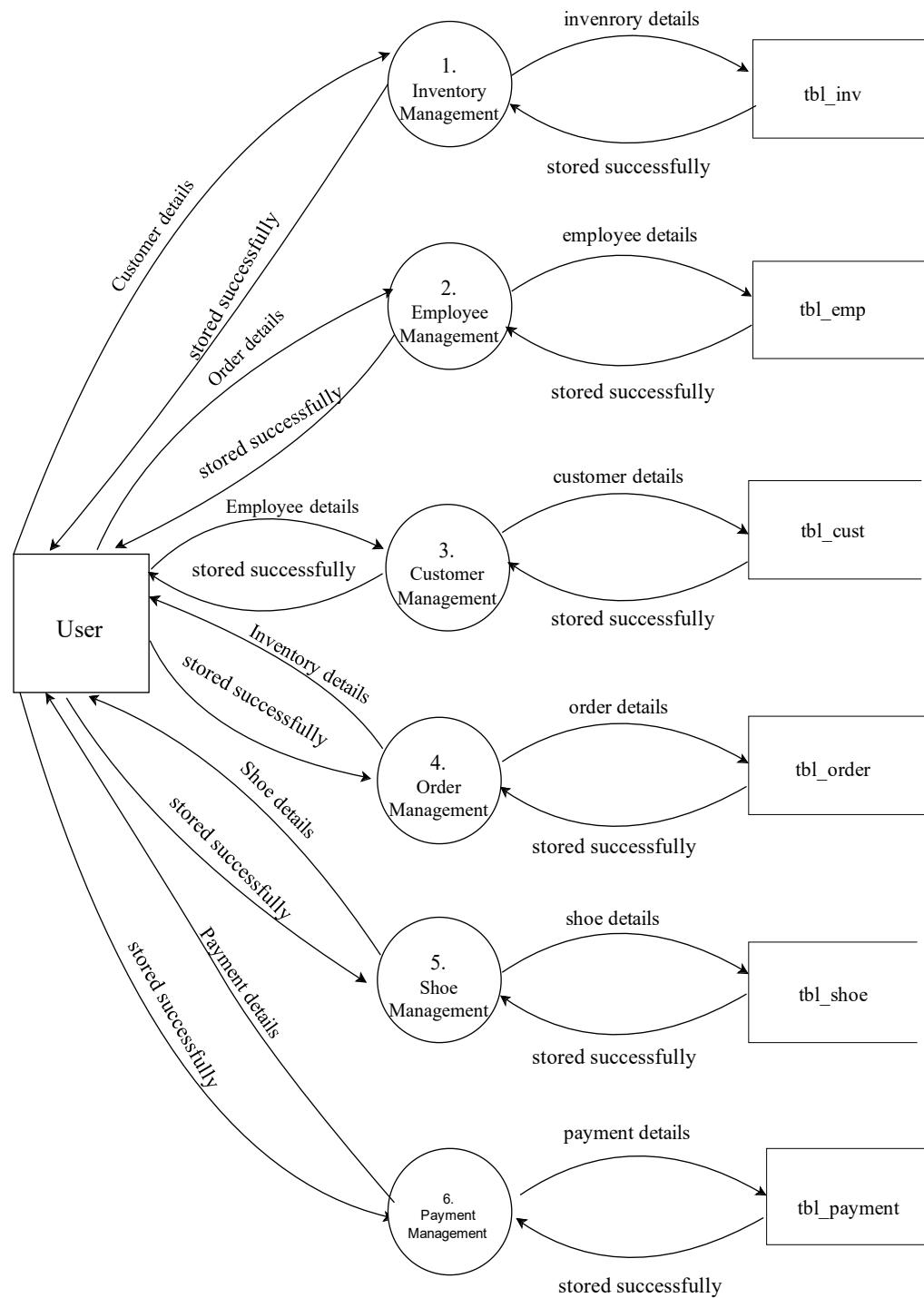
Rules for drawing data flow diagrams:

- Rule 1: Define the context of the diagram by identifying all input and output data flows.
- Rule 2: Choose a starting point for drawing the DFD.
- Rule 3: Provide meaningful labels for all data flow lines.
- Rule 4: Label processes with action verbs that relate to input and output data flows.
- Rule 5: Exclude insignificant functions usually handled during programming.
- Rule 6: Avoid including control or flow of control information.
- Rule 7: Avoid overcrowding the DFD with excessive information.
- Rule 8: Be open to starting the diagram over if necessary.

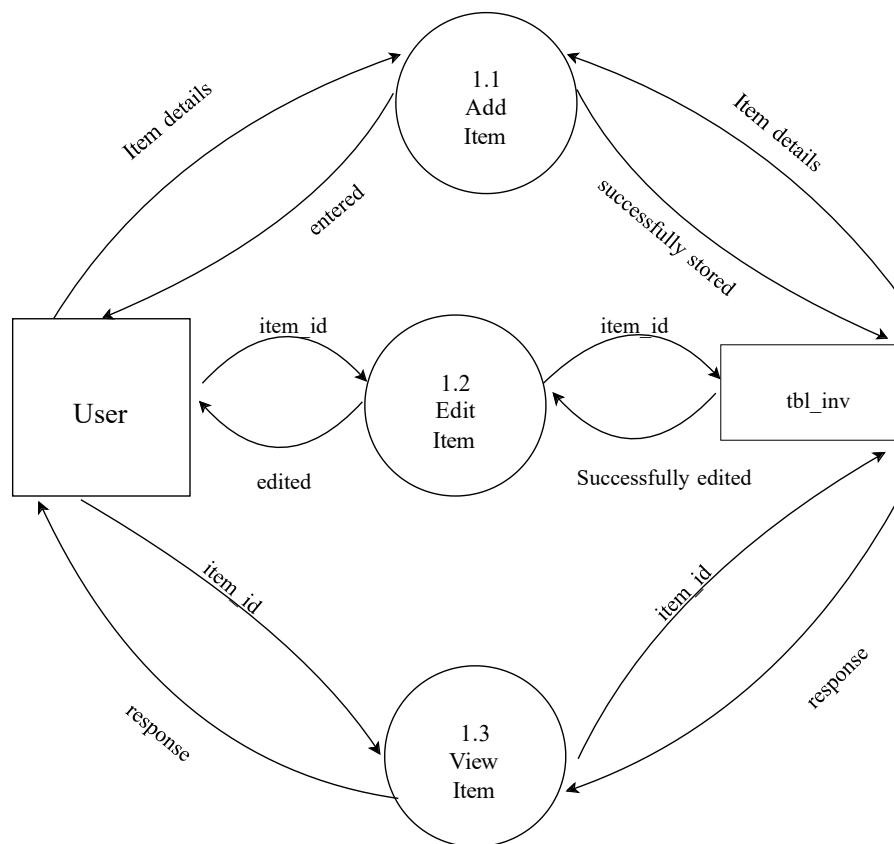
Level 0 DFD Showing Shoe Laundry Management System



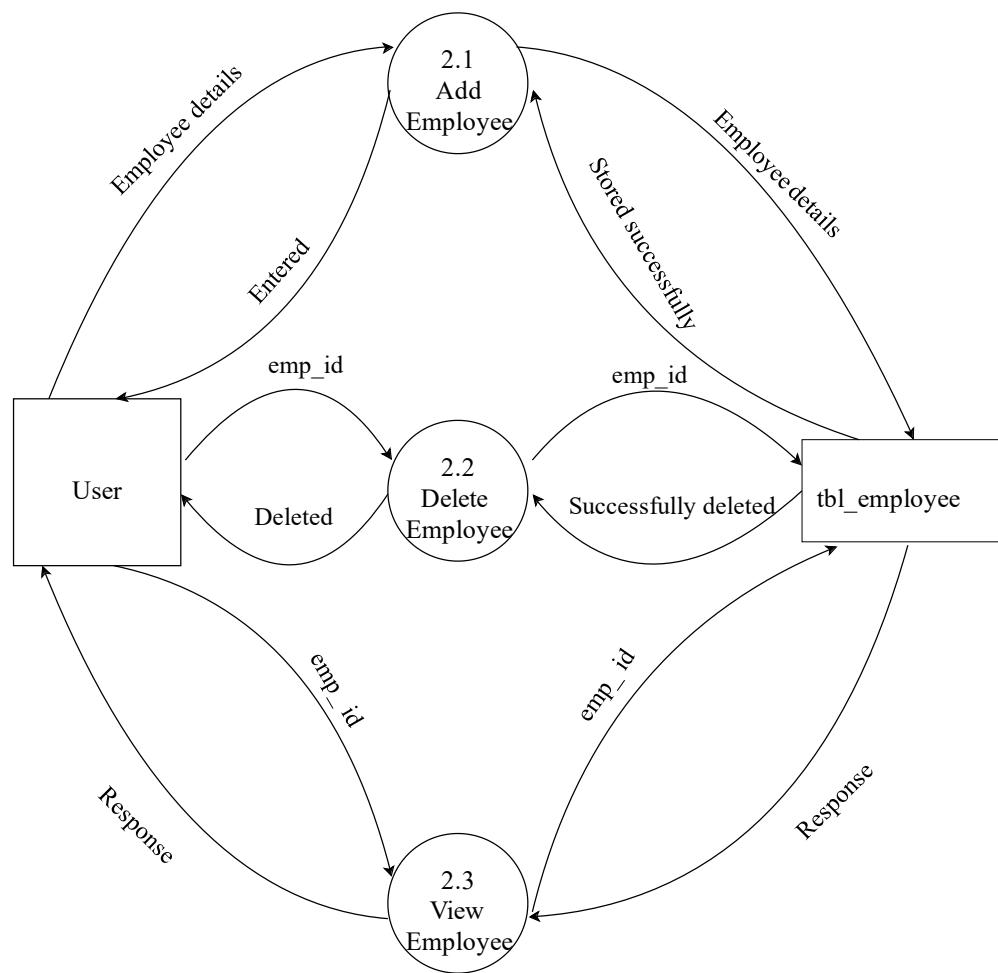
Level 1 DFD Showing Shoe Laundry Management System



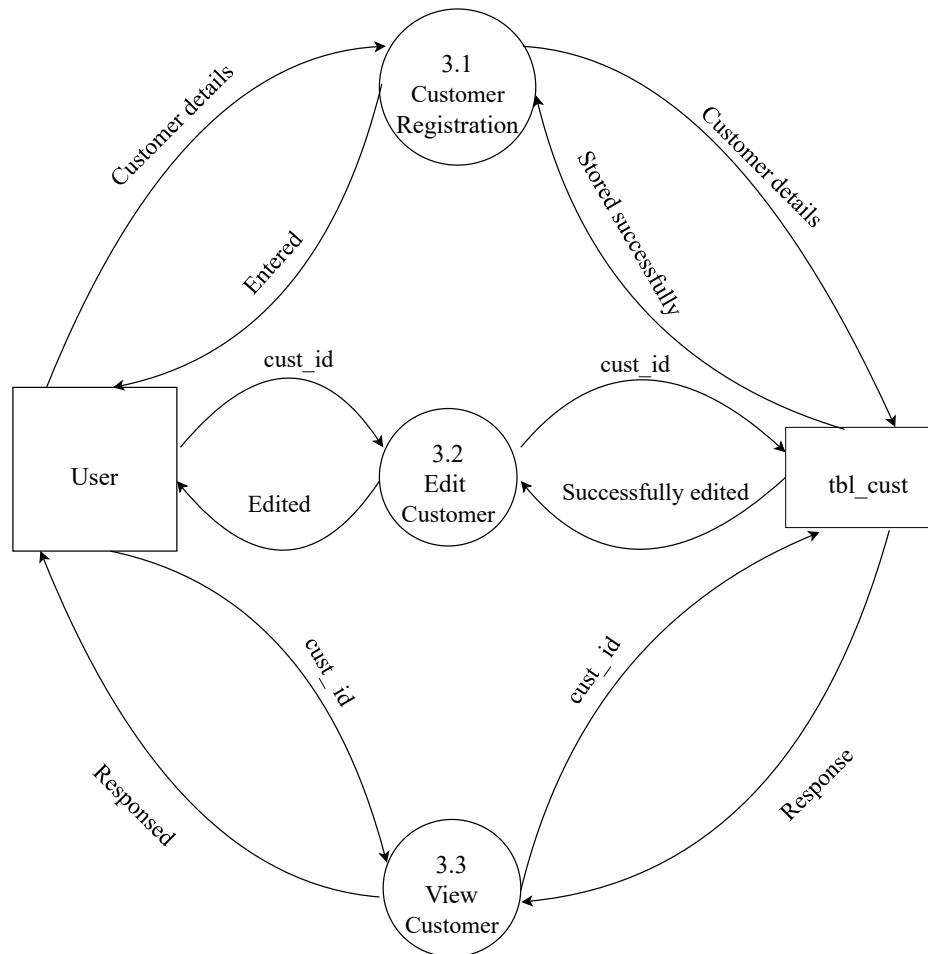
Level 2 DFD Showing Inventory Management



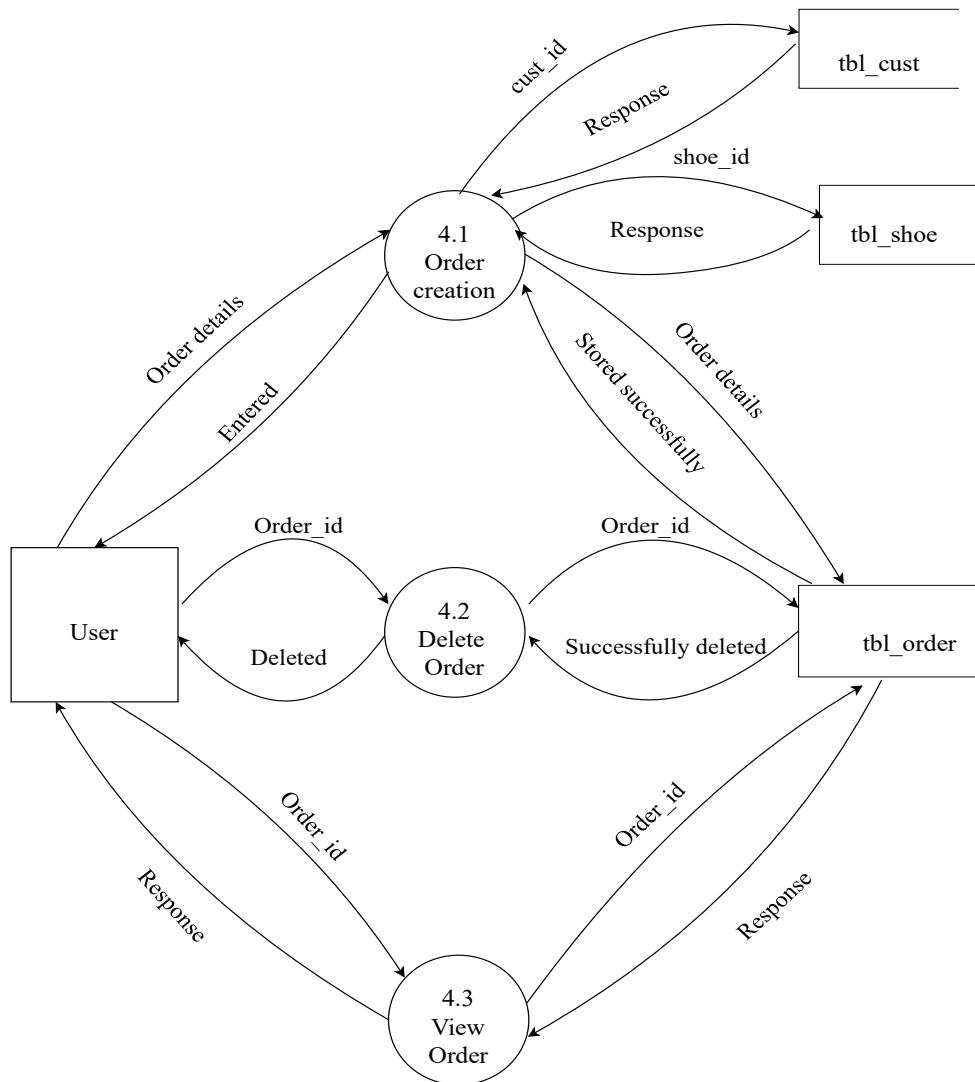
Level 2 DFD Showing Employee Management



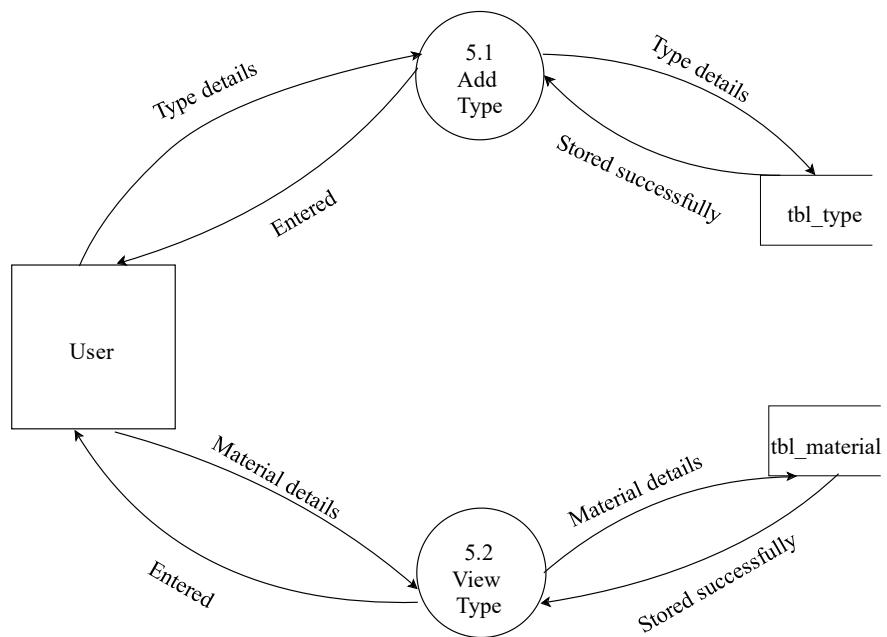
Level 2 DFD Showing Customer Management



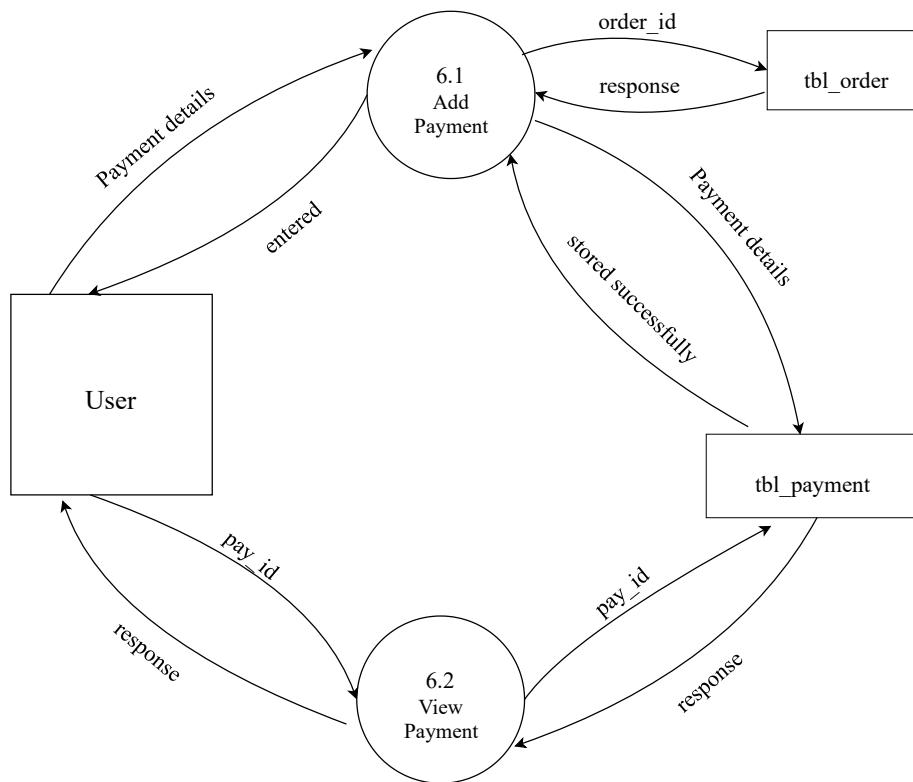
Level 2 DFD Showing Order Management



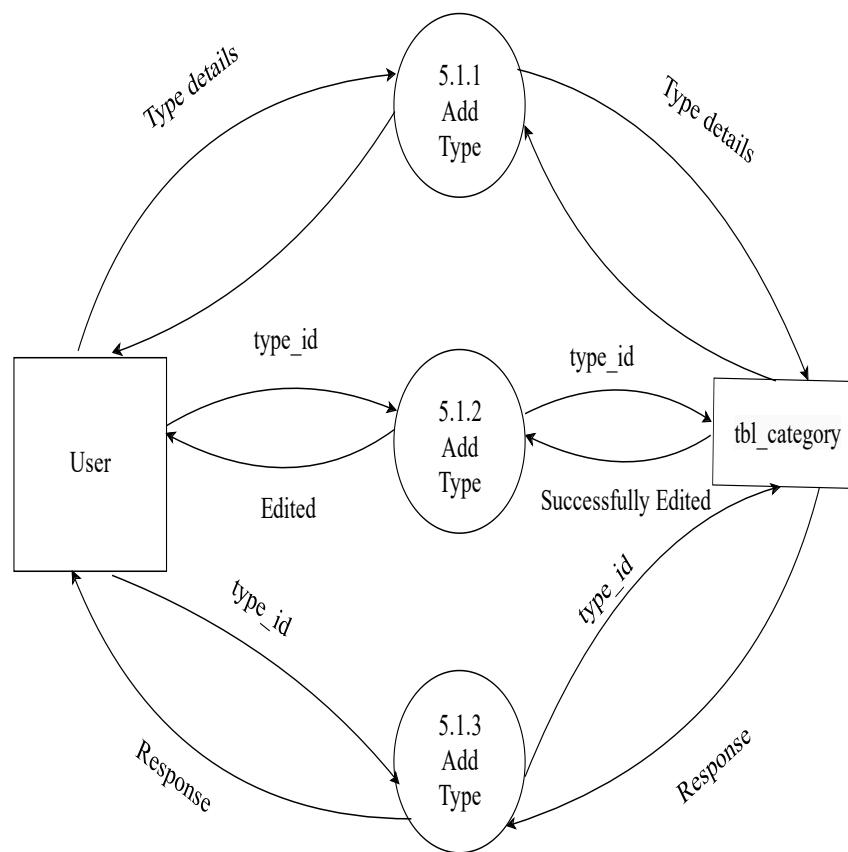
Level 2 DFD Showing Shoe Management



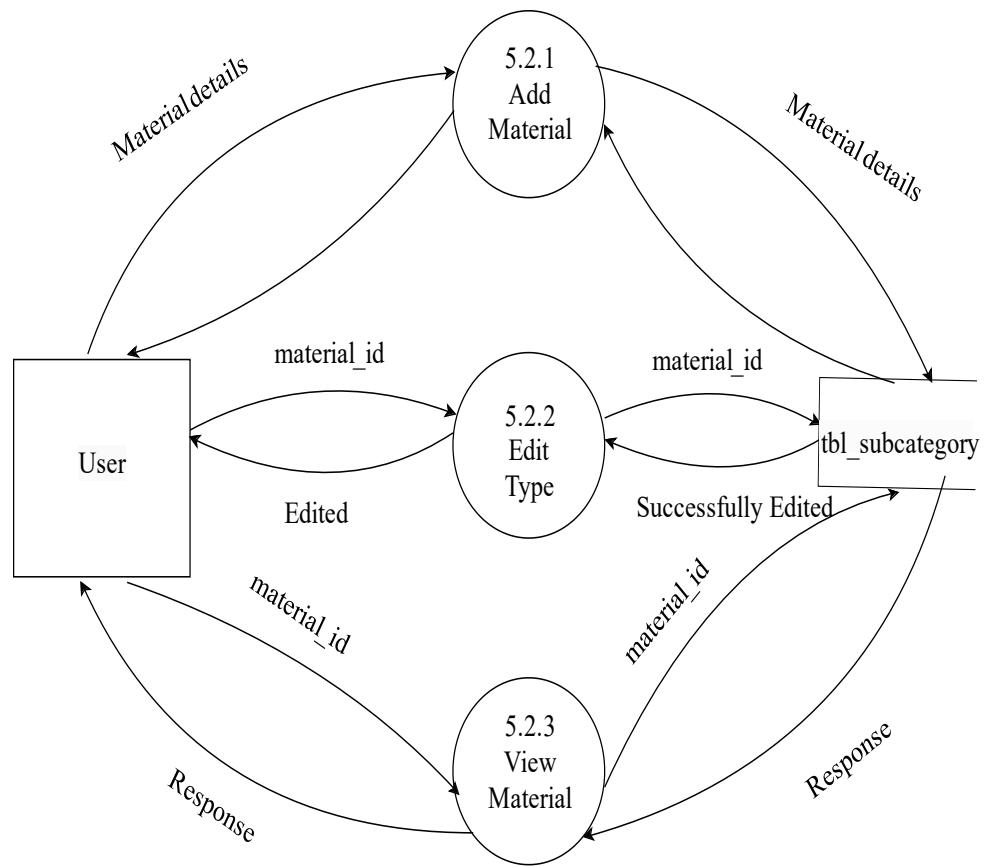
Level 2 DFD Showing Payment Management



Level 3 DFD Showing Type Management



Level 3 DFD Showing Material Management

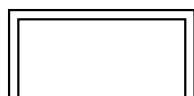


3.3 ENTITY RELATIONSHIP DIAGRAM

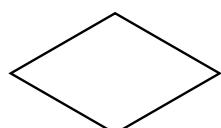
The ER model provides a conceptual way to perceive the real world, representing it as a collection of entities and the relationships between them. Central to this model is the Entity-Relationship diagram, a visual tool used to illustrate data components. ER modelling is extensively applied in the initial design phase of database applications, and its concepts are fundamental to various database design tools.



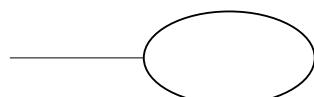
Entity Type



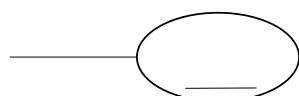
Weak Entity Type



Relationship Type



Attribute

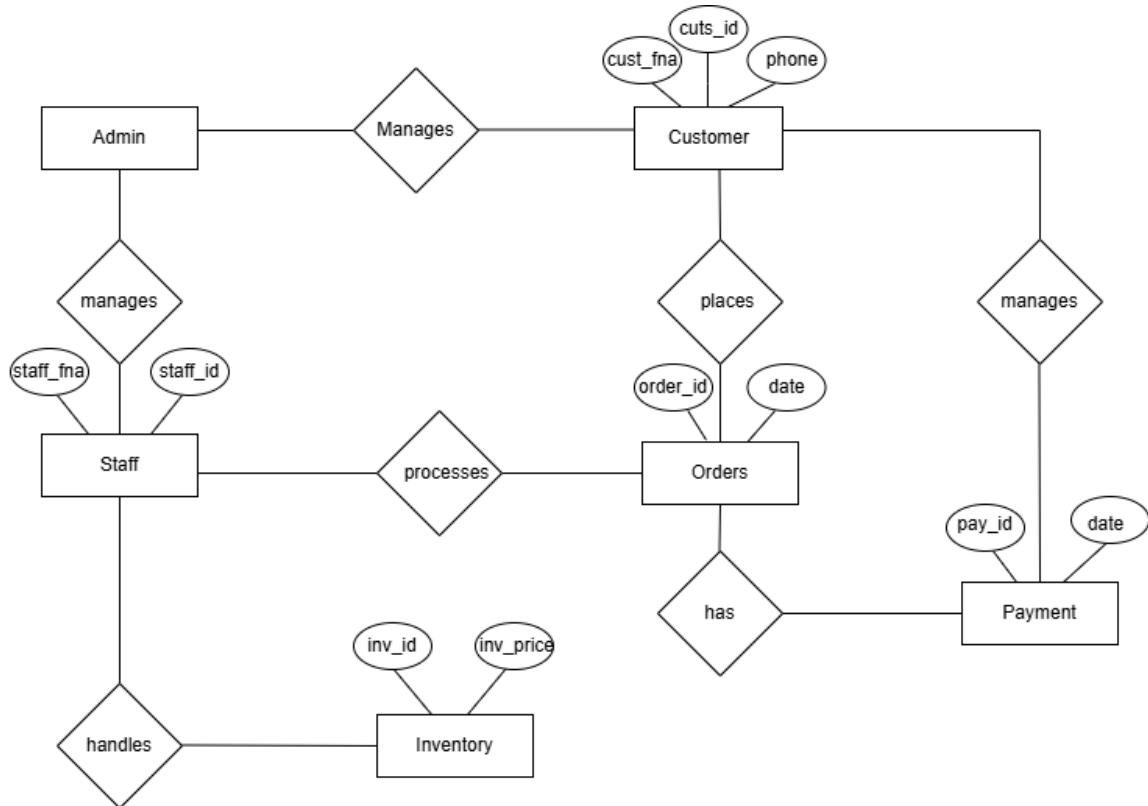


Key attribute



Multivalued Attribute

Entity Relationship diagram for Shoe Laundry Management System



SYSTEM DESIGN

4.1 INPUT DESIGN

Input design is the process of converting a user-oriented description of the inputs to a computer-based system into a programmer-oriented specification. The quality of system input determines the quality of system output. Input specification describes the manner in which data enter the system for processing. Input design features can ensure the reliability of the system and produce result from accurate data or they can result in the production of errors. The input design also determines whether the user can interact efficiently with the system.

Input design requires consideration of the needs of the data entry operator. Three data entry considerations are:

- The field length must be documented
- The sequence of fields must match the sequence of the fields on the source document.
- The data format must be identified to the data entry operator.

In our system almost all inputs are being taken from the databases. To provide adequate inputs we have to select necessary values from the databases and arrange it to the appropriate controls.

Inaccurate input data are the most common cause of errors in data processing. Errors entered by data entry can be controlled by input design. Input design is the process of converting user-oriented inputs to a computer-based format. There are three major approaches for entering data into the computer. They are menus, formatted forms and prompts. A menu is a selection list that simplifies computer data access or entry. Instead of remembering what to enter, the user chooses from the list of options. A formatted form is a preprinted form or a template that request the user to enter data in appropriate location. It is a fill-in-the-blank type form. The form is flashed on the screen as a unit. In prompt the system displays one enquiry at a time, asking the user for a response.

Home Page

Description: This is the homepage for all users.

The screenshot displays the homepage of the Shoe Laundry Management System. At the top, there is a navigation bar with links for Services, About Us, Testimonials, Contact, Login, and FAQ. Social media icons for Facebook, Twitter, Instagram, and LinkedIn are also present. The main header features a large image of a person's hands working on a shoe, with a central overlay containing the text "Welcome to Shoe Laundry!" and "Your trusted partner for shoe care and restoration." A red "Book Our Services" button is located below this text. Below the header, the section "Our Services" is shown with five categories: Shoe Cleaning, Shoe Restoration, Waterproofing, Shoe Deodorizing, and Shoe Repair, each accompanied by a small image and a brief description. The "Before & After" section follows, displaying five pairs of shoes showing the results of cleaning services. A "Special Offer!" section offers 20% off the first cleaning service. The footer contains a call-to-action "Ready to Refresh Your Shoes?" and a "Explore Our Services" button, along with a copyright notice for 2024.

Welcome to Shoe Laundry!
Your trusted partner for shoe care and restoration.
[Book Our Services](#)

Our Services

- Shoe Cleaning**
Expert cleaning for all types of shoes, removing dirt and stains.
- Shoe Restoration**
Restore your shoes to their original glory with our repair services.
- Waterproofing**
Protect your shoes from water damage with our waterproofing treatments.
- Shoe Deodorizing**
Eliminate odors and keep your shoes smelling fresh.
- Shoe Repair**
Professional repairs for damaged soles, seams, and more to extend the life of your favorite shoes.

Before & After

- Before & After Cleaning

Special Offer!

Get **20% off** your first shoe cleaning service when you book online!
Hurry, this offer is available for a limited time only! Bring your shoes back to life with our premium cleaning and restoration services.

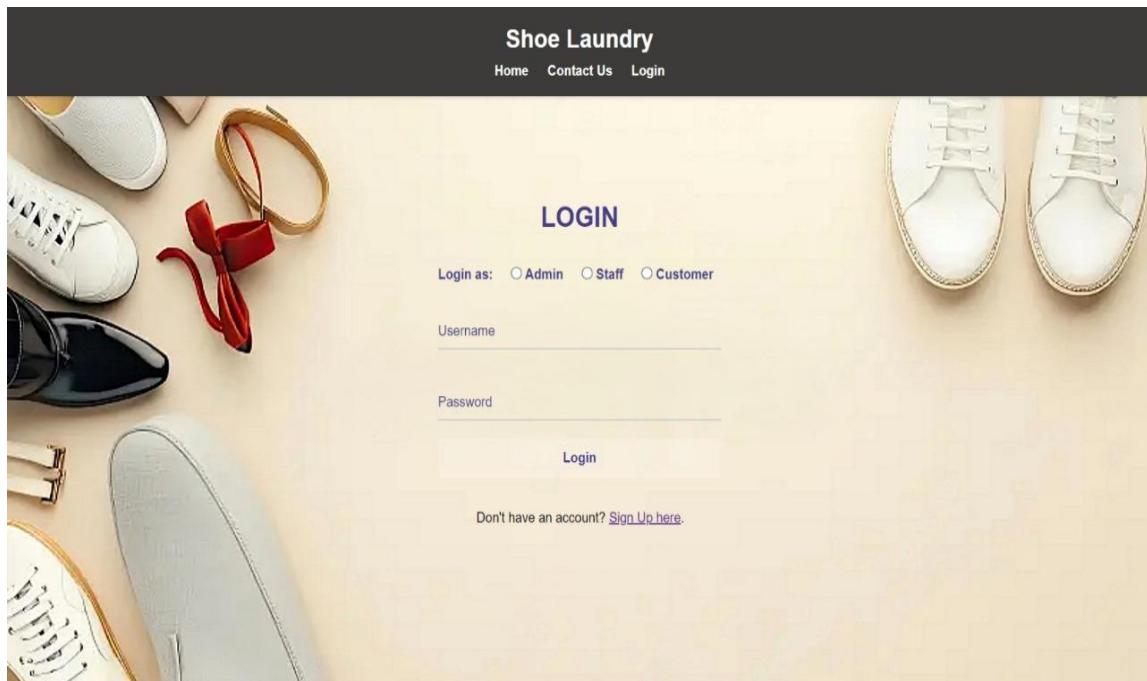
Ready to Refresh Your Shoes?

[Explore Our Services](#)

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Login Form

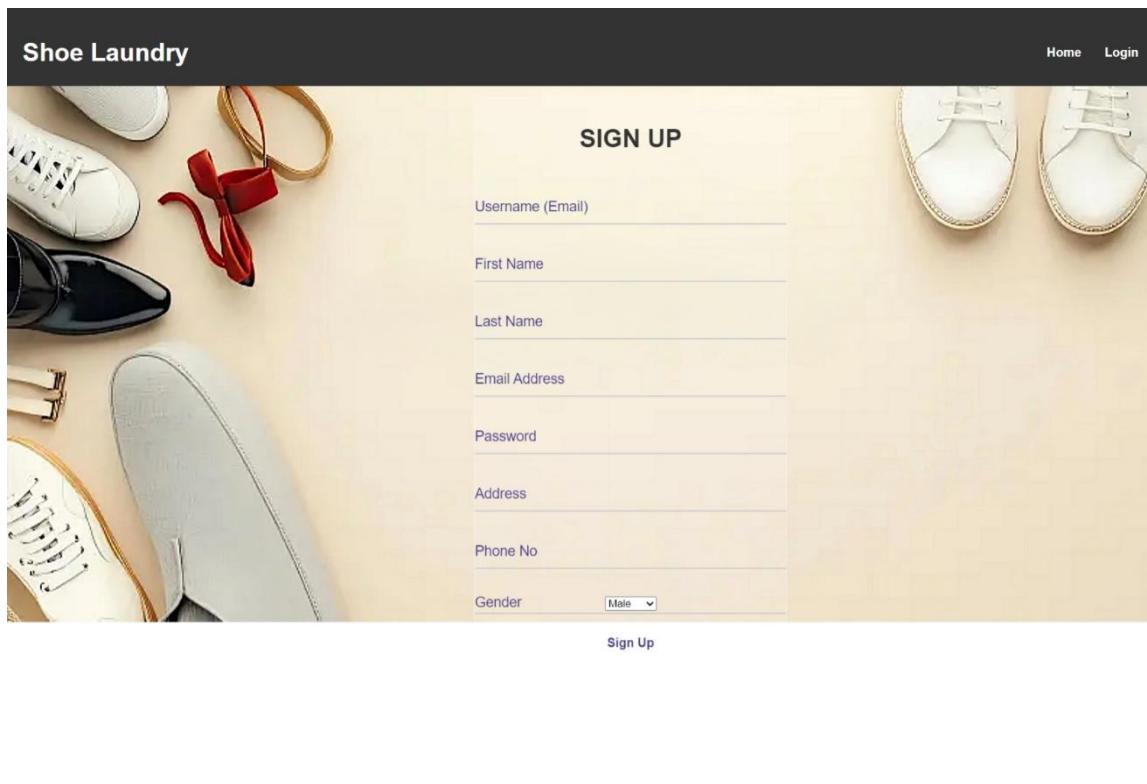
Description: This is the login page for all users.



The login page features a dark header with the "Shoe Laundry" logo and navigation links for "Home", "Contact Us", and "Login". The background is a light beige color with a subtle grid pattern. A decorative arrangement of various shoes (white sneakers, black dress shoes, grey loafers) and accessories (red and gold belts) is positioned on the left side. On the right side, there is a pair of white lace-up shoes. The central area contains the word "LOGIN" in large, bold, uppercase letters. Below it, a radio button group allows users to "Login as: Admin", "Staff", or "Customer". There are two input fields: "Username" and "Password", each with a corresponding label above it. A "Login" button is centered below the password field. At the bottom, a link "Don't have an account? [Sign Up here.](#)" is visible.

Customer Management

Description: Register Customer & Edit Customer.



The sign up page has a dark header with the "Shoe Laundry" logo and navigation links for "Home" and "Login". The background is a light beige color with a subtle grid pattern. A decorative arrangement of various shoes (white sneakers, black dress shoes, grey loafers) and accessories (red and gold belts) is positioned on the left side. On the right side, there is a pair of white lace-up shoes. The central area contains the word "SIGN UP" in large, bold, uppercase letters. To the right of the title, there is a vertical list of form fields with labels: "Username (Email)", "First Name", "Last Name", "Email Address", "Password", "Address", "Phone No", and "Gender". The "Gender" field includes a dropdown menu set to "Male". At the bottom of the form area, there is a "Sign Up" button.

Employee Management

Description: Add and edit employee

Shoe Laundry

- Dashboard
- Customers
- Orders
- Report
- Employees**
- Payments
- Inventory
- Assign Orders
- Add Services
- Shoes

ADD NEW EMPLOYEE

First Name:

Last Name:

Username:

Password:

Phone:

Department:

Status: Active

Add Employee

[Back to Employee](#)

4.2 OUTPUT DESIGN

One of the important features of an information system for users is the output it produces. Output is the information delivered to users through the information system. Without quality output, the entire system appears to be unnecessary that users will avoid using it. Users generally merit the system solely by its output. In order to create the most useful output possible. One works closely with the user through an interactive process, until the result is considered to be satisfactory.

Output design has been an ongoing activity almost from the beginning of the project. In the study phase, outputs were identified and described general in the project directive. A tentative output medium was then selected and sketches made for each output. In the feasibility analysis, a “best” new system was selected; its description identified the input and output media. In the design phase the system has included an evaluation and selection of specific equipment for the system.

Outputs from computer systems are required primarily to communicate the results of processing to the user. They are also used to provide a permanent copy of these results for later consultation.

Home Page

Description: This is the homepage for all users.

The screenshot shows the homepage of the Shoe Laundry Management System. At the top, there is a navigation bar with links for Services, About Us, Testimonials, Contact, Login, and FAQ, along with social media icons. The main header features a large image of a person's hands working on a shoe, with a central overlay containing the text "Welcome to Shoe Laundry!" and "Your trusted partner for shoe care and restoration." Below this is a "Book Our Services" button. The next section, "Our Services," displays five cards with images and descriptions: Shoe Cleaning, Shoe Restoration, Waterproofing, Shoe Deodorizing, and Shoe Repair. Each card includes a small image, the service name, and a brief description. The following section, "Before & After," shows five pairs of shoes, each with a "Before & After Cleaning" label below it. The final section, "Special Offer!" offers a 20% discount on the first cleaning service. A large call-to-action button at the bottom encourages users to explore services.

Welcome to Shoe Laundry!
Your trusted partner for shoe care and restoration.
[Book Our Services](#)

Our Services

Shoe Cleaning
Expert cleaning for all types of shoes, removing dirt and stains.

Shoe Restoration
Restore your shoes to their original glory with our repair services.

Waterproofing
Protect your shoes from water damage with our waterproofing treatments.

Shoe Deodorizing
Eliminate odors and keep your shoes smelling fresh.

Shoe Repair
Professional repairs for damaged soles, seams, and more to extend the life of your favorite shoes.

Before & After

Before & After Cleaning

Special Offer!

Get **20% off** your first shoe cleaning service when you book online!

Hurry, this offer is available for a limited time only! Bring your shoes back to life with our premium cleaning and restoration services.

Ready to Refresh Your Shoes?

[Explore Our Services](#)

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Admin Dashboard

Description: Admin dashboard where admin can manage website.

The Admin Dashboard features a sidebar menu on the left with the following items:

- Dashboard
- Customers
- Orders
- Report
- Employees
- Payments
- Inventory
- Assign Orders
- Add Services
- Shoes
- Messages

The main content area includes a welcome message and several summary boxes:

- Total Customers: 20
- Total Employees: 7
- Total Orders: 12
- Reorder items: 7
- New Orders: 4
- Completed Orders: 14
- Pending Orders: 4
- Total Revenue: ₹4,182.00
- Inventory Items: 10

A chart titled "New Orders in the Last 7 Days" shows the number of new orders per day from November 8 to November 11, 2024.

CUSTOMERS MANAGEMENT

Search Customers...

ID	Name	Phone	Gender	Created at	Actions
134	Ananya	8783340941	Female	2024-11-11 20:18:05	View
120	navya	8753897678	Female	2024-11-11 13:14:34	View
119	reenu	37454390	Female	2024-11-11 13:14:23	View
113	ekaparna	34790780	Female	2024-11-11 13:14:05	View
117	sneha	7565545	Female	2024-11-11 13:13:50	View
112	atwana	56789753	Female	2024-11-11 13:13:27	View
121	rose	8605434	Female	2024-11-11 13:13:14	View
111	alhira	1234567891	Female	2024-11-11 13:12:49	View
125	alwin	1234567891	Male	2024-11-11 13:12:14	View
126	alwin	1234567891	Male	2024-11-11 13:12:04	View
127	ilya	1209856328	Female	2024-11-11 13:11:54	View
124	anna	2653678	Female	2024-11-11 13:11:44	View

MONTHLY BOOKING AND PAYMENT REPORT

This section displays a bar chart comparing Total Bookings and Total Price for November 2024.

The Y-axis represents Amount, ranging from 0 to 2,500. The X-axis shows two time points: 2024-10 and 2024-11.

Legend: Total Bookings (Blue), Total Price (Red)

Date	Total Bookings	Total Price
2024-10	~100	~900
2024-11	~10	~2100

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Shoe Laundry
-----
Dashboard
Customers
Orders
Report
Employees (highlighted)
Payments
Inventory
Assign Orders
Add Services
Shoes

```

EMPLOYEES MANAGEMENT

List of all employees

Employee ID	Name	Status	Actions
1	employee1	active	<button>View</button> <button>Set Inactive</button>
2	employee2	active	<button>View</button> <button>Set Inactive</button>
3	employee3	active	<button>View</button> <button>Set Inactive</button>
5	employee4	active	<button>View</button> <button>Set Inactive</button>
6	cemployee1	active	<button>View</button> <button>Set Inactive</button>
9	cemployee2	active	<button>View</button> <button>Set Inactive</button>
10	cemployee3	active	<button>View</button> <button>Set Inactive</button>

[Add New Employee](#)

```

Shoe Laundry
-----
Dashboard
Customers
Orders
Report
Employees
Payments
Inventory
Assign Orders
Add Services
Shoes

```

ADD NEW EMPLOYEE

Fill in the form to add a new employee:

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="password"/>
Phone:	<input type="text"/>
Department:	<input type="text"/>
Status:	<input type="text"/> Active

[Add Employee](#)

[Back to Employee](#)

```

Shoe Laundry
-----
Dashboard
Customers
Orders
Report
Employees
Payments
Inventory
Assign Orders
Add Services
Shoes

```

PAYMENT DETAILS

Details of payment #156

Payment ID	156
Customer Name	navya varghese
Phone	8753897678
Amount	₹280.00
Payment Date	Nov 08, 2024
Status	1

[Back to Payment](#)

Shoe Laundry Management System

Shoe Laundry

- Dashboard
- Customers
- Orders
- Report
- Employees
- Payments
- Inventory**
- Assign Orders
- Add Services
- Shoes
- Messages

INVENTORY

Item ID	Item Name	Price	Stock	Actions
1	Brush	₹399.01	10	Edit View Delete
2	Cleaning cloth	₹329.03	26	Edit View Delete
3	Cleanser	₹499.02	47	Edit View Delete
4	Petroleum jelly	₹229.00	43	Edit View Delete
5	Laundry Detergent	₹627.00	10	Edit View Delete
6	Removing stains	₹350.00	15	Edit View Delete
7	Bleach	₹150.00	20	Edit View Delete
8	Bleach pen	₹1,500.00	30	Edit View Delete
9	Leather Conditioner	₹579.00	35	Edit View Delete
17	Waterproofing sprays	₹88.00	88	Edit View Delete

[Create New Item](#)

EDIT INVENTORY ITEM

Price:

Stock:

A soft-bristled brush can wipe away dirt.

Item Description: brush can wipe away dirt.

Reorder Level:

Supplier Name: SHOEGR

Last Restock Date: 01-09-2024

[Update Item](#) [Cancel](#)

[Back to Inventory](#)

ASSIGN ORDERS TO COURIER

<p>Booking ID: 49 Username: liya@gmail.com Service Type: 3 Delivery Date: 2024-11-06 Delivery Time: 20:18:00 Phone: 2147483647 Number of Shoes: 1 Shoe Type: Boot Material Type: Canvas</p> <p>Select Courier Assign to Courier</p>	<p>Booking ID: 50 Username: sandrab@gmail.com Service Type: 2 Delivery Date: 2024-11-07 Delivery Time: 15:50:00 Phone: 2147483647 Number of Shoes: 1 Shoe Type: Boot Material Type: Leather</p> <p>Select Courier Assign to Courier</p>	<p>Booking ID: 51 Username: annag@gmail.com Service Type: 3 Delivery Date: 2024-11-13 Delivery Time: 20:49:00 Phone: 1234567890 Number of Shoes: 1 Shoe Type: Sandals Material Type: Suede</p> <p>Select Courier Assign to Courier</p>
<p>Booking ID: 55 Username: sreya@gmail.com Service Type: 2 Delivery Date: 2024-11-14 Delivery Time: 06:00:00 Phone: 2147483647 Number of Shoes: 1 Shoe Type: Boot Material Type: Suede</p> <p>Select Courier Assign to Courier</p>	<p>Booking ID: 57 Username: navya@gmail.com Service Type: 10 Delivery Date: 2024-11-09 Delivery Time: 04:00:00 Phone: 1234567898 Number of Shoes: 1 Shoe Type: Sneaker Material Type: Suede</p> <p>Select Courier Assign to Courier</p>	<p>Booking ID: 67 Username: arya@gmail.com Service Type: 23 Delivery Date: 2024-11-16 Delivery Time: 04:00:00 Phone: 2147483647 Number of Shoes: 1 Shoe Type: 2 Material Type: 14</p> <p>Select Courier Assign to Courier</p>

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Shoe Laundry Management System

Shoe Laundry

- Dashboard
- Customers
- Orders
- Report
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- Payments
- Inventory
- Assign Orders
- Add Services
- Shoes

ASSIGN ORDERS TO EMPLOYEES

Booking ID: 34 Username: shreya@gmail.com Service Type: 2 Delivery Date: 2024-10-16 Delivery Time: 13:00:00 Phone: 2147483647 No. of Shoes: 1 Shoe Type: Sneaker Material Type: Leather	Booking ID: 42 Username: liya@gmail.com Service Type: 8 Delivery Date: 2024-10-24 Delivery Time: 02:00:00 Phone: 1234567898 No. of Shoes: 1 Shoe Type: Sneaker Material Type: Canvas	Booking ID: 46 Username: arya@gmail.com Service Type: 6 Delivery Date: 2024-11-13 Delivery Time: 10:25:00 Phone: 2147483647 No. of Shoes: 1 Shoe Type: Boot Material Type: Canvas
employee1 w	employee1 w	employee1 w
<input type="button" value="Assign"/>	<input type="button" value="Assign"/>	<input type="button" value="Assign"/>

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Shoe Laundry

- Dashboard
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- Add Services
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ASSIGN COMPLETED ORDERS TO COURIER

Completed Orders			
Order ID	Customer Name	Order Date	Assign to Courier
34	shreya@gmail.com	2024-10-14	Select Courier <input type="button" value="Assign"/>
42	liya@gmail.com	2024-10-22	Select Courier <input type="button" value="Assign"/>
46	arya@gmail.com	2024-11-01	Select Courier <input type="button" value="Assign"/>
47	sandrab@gmail.com	2024-11-02	Select Courier <input type="button" value="Assign"/>

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Shoe Laundry

- Dashboard
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SERVICES

[Add a New Service](#)

Service ID	Service Name	Category	Price	Description	Photo	Actions
1	Basic Cleaning	Main	150.00	Our Basic Cleaning service is perfect for refreshing your shoes with a thorough cleaning. We remove dirt, stains, and surface debris, leaving your shoes looking fresh and revitalized. Ideal for everyday shoes that need a quick refresh.		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Deep Cleaning	Main	300.00	Our Deep Cleaning service provides a comprehensive cleaning solution for heavily soiled shoes. We clean the interior and exterior, removing embedded dirt, grime, and bacteria, restoring the shoes to a like-new condition.		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	Repair Service	Main	240.00	We offer expert repair services to fix worn-out or damaged shoes. From sole replacement to stitching repairs, we ensure that your shoes are restored to their original condition, giving them a longer life. Ideal for shoes with structural damage or heavy wear.		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	Stain Removal	Main	250.00	Our Stain Removal service targets tough stains on all types of materials, including suede, leather, and fabric. Using specialized techniques, we carefully remove stubborn stains, ensuring your shoes look clean and pristine without any damage to the fabric.		<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Shoe Type ID	Shoe Type Name	Actions	
1	Sneakers	Edit	Delete
2	Boot	Edit	Delete
3	Formal Shoes	Edit	Delete
4	Sandals	Edit	Delete
5	Heels	Edit	Delete
6	Running Shoes	Edit	Delete
7	Slippers	Edit	Delete
8	Loafers	Edit	Delete
9	Wedges	Edit	Delete
10	Flip Flops	Edit	Delete

Material ID	Material Name	Actions	
1	Leather	Edit	Delete
2	Suede	Edit	Delete
3	Canvas	Edit	Delete
4	Synthetic	Edit	Delete
5	Rubber	Edit	Delete
6	Mesh	Edit	Delete
7	Fleece	Edit	Delete
8	Fabric	Edit	Delete
9	Wood	Edit	Delete
10	Cork	Edit	Delete
11	Plastic	Edit	Delete
12	Denim	Edit	Delete
13	Silk	Edit	Delete
14	Velvet	Edit	Delete
15	Linen	Edit	Delete

Staff Dashboard

Description: Staff Dashboard

Employee ID	1
Name	employee1
Status	active
Department	washing

Assigned Orders			
Order ID	Service Type	Status	Order Date
30	Stain Removal	Assigned	2024-10-31
40	Leather Treatment	Assigned	2024-10-25

Performance Summary			
Attendance: 100%	Monthly Score: 4.8/5	Completed Orders: 0	

Staff Profile

Description: Staff Profile

The screenshot shows the 'Shoe Laundry Staff Dashboard' with a blue header bar containing navigation links: Dashboard, Profile (selected), Attendance, Notifications, Inventory, Orders, Orders Managed, and Logout. Below the header is a blue sub-header bar labeled 'Profile Details'. The main content area displays a table of staff profile details:

Employee ID	1
First Name	employee1
Last Name	w
Username	em1@gmail.com
Phone	55598788
Department	washing
Status	active

At the bottom left of the content area is a blue button labeled 'Edit Details'.

Staff Attendance

Description: Staff Attendance

The screenshot shows the 'Shoe Laundry Staff Attendance' page with a blue header bar containing navigation links: Dashboard, Profile, Attendance (selected), Notifications, Inventory, Orders, Orders Managed, and Logout. Below the header is a blue sub-header bar labeled 'Mark Attendance'. The main content area contains a form for marking attendance:

Attendance Status:

Present

Mark Attendance

View Attendance

Staff Attendance

Description: Staff Attendance

The screenshot shows the 'Attendance' section of the Shoe Laundry Management System. At the top, there's a navigation bar with links for Dashboard, Profile, Attendance (which is highlighted), Notifications, Inventory, Orders, Orders Managed, and Logout. Below the navigation is a blue header bar with the text 'Mark Attendance'. Underneath is a form titled 'Attendance Status:' with a dropdown menu showing 'Present'. Below the dropdown are two buttons: 'Mark Attendance' and 'View Attendance'.

Staff Notifications

Description: Staff Notifications

The screenshot shows the 'Notifications' section of the Shoe Laundry Management System. At the top, there's a navigation bar with links for Dashboard, Profile, Attendance, Notifications (which is highlighted), Inventory, Orders, Orders Managed, and Logout. Below the navigation is a blue header bar with the text 'Notifications'. Underneath is a form titled 'Send a New Notification' with fields for 'Customer Email' and a message area containing placeholder text 'Write your message here...'. A 'Send Notification' button is at the bottom. Below this is a section titled 'Messages Sent by Admin' with a table showing two entries. Finally, there's a section titled 'Your Sent Notifications' with a table showing one entry, followed by a message stating 'No notifications sent yet.'

Date Sent	Admin Name	Message
2024-11-14 20:50:47	employee1 w	Well done
2024-11-14 20:46:24	employee1 w	good work

Date Sent	Customer Email	Message
No notifications sent yet.		

Staff Inventory

Description: Staff Inventory

Shoe Laundry Inventory Items		
Dashboard	Profile	Attendance
Notifications	Inventory	Orders
Orders Managed		Logout
Inventory		
Item Name	Quantity	Action
Brush	9	Qty used Use Item
Cleaning cloth	26	Qty used Use Item
Cleanser	47	Qty used Use Item
Petroleum jelly	43	Qty used Use Item
Laundry Detergent	10	Qty used Use Item
Removing stains	15	Qty used Use Item
Bleach	20	Qty used Use Item
Bleach pen	30	Qty used Use Item
Leather Conditioner	35	Qty used Use Item
Waterproofing sprays	88	Qty used Use Item

Staff Orders

Description: Staff New Orders

Shoe Laundry Orders Received					
Dashboard	Profile	Attendance	Notifications	Inventory	Orders
Orders Managed		Logout			
Your Assigned Orders					
New Orders Assigned To You					
Order ID	Customer Name	Status	Order Date	Update Status	View Details
16	rosemary@gmail.com	Assigned	2024-10-05	Pending Update	View Details
17	shreya@gmail.com	Assigned	2024-10-05	Pending Update	View Details
30	sreya@gmail.com	Assigned	2024-10-14	Pending Update	View Details
40	navya@gmail.com	Assigned	2024-10-21	Pending Update	View Details

Courier Dashboard

Description: Courier dashboard

The screenshot shows the 'Shoe Laundry Courier Staff Dashboard'. At the top, there is a navigation bar with links: Dashboard, Profile, Attendance, Notifications, Orders, PickUp, Out for Delivery, Orders Delivered, and Logout. Below the navigation bar, a blue header bar displays the text 'Welcome, cemployee1'. The main content area contains a table with four rows of employee information: Employee ID (6), Name (cemployee1), Status (active), and Department (Courier). Below this table, a section titled 'Assigned Orders' displays a table with four columns: Order ID, Customer Name, Status, and Order Date. The table has three rows with data: Order ID 39 (Customer shreya@gmail.com, Status In Progress, Date 2024-10-17); Order ID 61 (Customer angel@gmail.com, Status Pending, Date 2024-11-11); and Order ID 62 (Customer ananya@gmail.com, Status paid, Date 2024-11-11).

Employee ID	6
Name	cemployee1
Status	active
Department	Courier

Order ID	Customer Name	Status	Order Date
39	shreya@gmail.com	In Progress	2024-10-17
61	angel@gmail.com	Pending	2024-11-11
62	ananya@gmail.com	paid	2024-11-11

Courier Staff Profile

Description: Courier Staff Profile

The screenshot shows the 'Shoe Laundry Courier Staff Profile' page. At the top, there is a navigation bar with links: Dashboard, Profile, Attendance, Notifications, Orders, PickUp, Out for delivery, Orders Delivered, and Logout. Below the navigation bar, a blue header bar displays the text 'Profile Details'. The main content area contains a table with seven rows of profile information: Employee ID (6), First Name (cemployee1), Last Name (c), Username (cm1@gmail.com), Phone (8789764590), Department (Courier), and Status (active). At the bottom left of the content area, there is a blue button labeled 'Edit Details'.

Employee ID	6
First Name	cemployee1
Last Name	c
Username	cm1@gmail.com
Phone	8789764590
Department	Courier
Status	active

Courier Staff Orders

Description: Courier Staff orders

The screenshot shows a web-based application for managing laundry orders. At the top, a blue header bar displays the title "Shoe Laundry Orders Received". Below the header is a navigation menu with links: Dashboard, Profile, Attendance, Notifications, Orders (which is highlighted in dark grey), PickUp, Out for delivery, Orders Delivered, and Logout. A large blue banner below the menu is titled "Your Assigned Orders". Underneath this banner, a section titled "New Orders Assigned to You" contains a table with three rows of order data. The columns are labeled Order ID, Customer Name, Status, Order Date, and View Details. The first row shows Order ID 39 assigned to shreya@gmail.com with status In Progress and date 2024-10-17. The second row shows Order ID 61 assigned to angel@gmail.com with status Pending and date 2024-11-11. The third row shows Order ID 62 assigned to ananya@gmail.com with status paid and date 2024-11-11.

Order ID	Customer Name	Status	Order Date	View Details
39	shreya@gmail.com	In Progress	2024-10-17	View Details
61	angel@gmail.com	Pending	2024-11-11	View Details
62	ananya@gmail.com	paid	2024-11-11	View Details

Courier Staff Pickup

Description: Courier Staff Pickup

The screenshot shows a web-based application for managing laundry pickup. At the top, a blue header bar displays the title "Shoe Laundry Order Pickup". Below the header is a navigation menu with links: Dashboard, Profile, Attendance, Notifications, Orders, PickUp (which is highlighted in dark grey), Out for delivery (which is also highlighted in dark grey), Orders Delivered, and Logout. A large blue banner below the menu is titled "Orders Out for Delivery". Underneath this banner, a section titled "Your Assigned Deliveries" contains a table with two rows of delivery data. The columns are labeled Order ID, Customer Name, Phone Number, Delivery Address, Order Date, and Order Status. The first row shows Order ID 23 assigned to shreya@gmail.com with phone number 8605434, address hje, ghk, Ernakulam, 682307, date 2024-10-07, and status dropdown "Select Status" with a green "Update Status" button. The second row shows Order ID 42 assigned to liya@gmail.com with phone number 1234567898, address wee, qwq, Ernakulam, 682316, date 2024-10-22, and status dropdown "Select Status" with a green "Update Status" button.

Order ID	Customer Name	Phone Number	Delivery Address	Order Date	Order Status
23	shreya@gmail.com	8605434	hje, ghk, Ernakulam, 682307	2024-10-07	Select Status <input type="button" value="Update Status"/>
42	liya@gmail.com	1234567898	wee, qwq, Ernakulam, 682316	2024-10-22	Select Status <input type="button" value="Update Status"/>

Shoe Laundry

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Our Services



Basic Cleaning

Our Basic Cleaning service is perfect for refreshing your shoes with a thorough cleaning. We remove dirt, stains, and surface debris, leaving your shoes looking fresh and revitalized. Ideal for everyday shoes that need a quick refresh.



Deep Cleaning

Our Deep Cleaning service provides a comprehensive cleaning solution for heavily soiled shoes. We clean the interior and exterior, removing embedded dirt, grime, and bacteria, restoring the shoes to a like-new condition.



Repair Service

We offer expert repair services to fix worn-out or damaged shoes. From sole replacement to stitching repairs, we ensure that your shoes are restored to their original condition, giving them a longer life. Ideal for shoes with structural damage or heavy wear.



Stain Removal

Our Stain Removal service targets tough stains on all types of materials, including suede, leather, and fabric. Using specialized techniques, we carefully remove stubborn stains, ensuring your shoes look clean and pristine without any damage to the fabric.



Custom Service

For shoes that require unique or personalized care, our Custom Service is the perfect choice. Whether it's a special repair, cleaning, or a combination of services, we tailor our approach to meet the specific needs of your shoes, ensuring they get the best treatment possible.



Polishing

Our Polishing service is perfect for restoring the shine and gloss of your leather shoes. Using premium polishes, we bring back the luster and protect your shoes from further wear and tear, ensuring they stay looking sharp.



Leather Treatment

Keep your leather shoes looking luxurious with our Leather Treatment service. We use high-quality conditioners and treatments to nourish and protect the leather, preventing cracks, restoring softness, and maintaining the shine.



Lace Replacement

Replace your old, frayed laces with our Lace Replacement service. Choose from a variety of colors and materials to match your shoes and add a fresh, stylish touch. Perfect for worn-out or missing laces.



Insole Replacement

Replace your worn-out insoles with our Insole Replacement service. We offer comfortable and durable insoles that will improve the fit of your shoes, providing better support and cushioning for all-day comfort.



Color Restoration

Restore the original color of your shoes with our Color Restoration service. Whether it's faded leather or scuffed fabric, we bring back the rich hues of your shoes, ensuring they look vibrant and well-maintained.



Heel Replacement

Our Heel Replacement service restores worn-out heels on your shoes, ensuring comfort and stability. Whether you need a complete heel replacement or just a refresh, we will ensure your shoes are as good as new.



Scratch Repair

Our Scratch Repair service effectively removes scratches and scuffs from your shoes, restoring their smooth appearance. We use specialized products and techniques to smooth out imperfections, leaving your shoes looking flawless.



Stain Guard Application

Protect your shoes from future stains with our Stain Guard Application. We apply a protective coating that prevents dirt and stains from penetrating the fabric, helping to keep your shoes clean for longer.



Shoe Cleaning

We provide expert cleaning for all types of shoes, ensuring they look fresh and new. Our cleaning process includes removing dirt, stains, and odors while preserving the material.



Shoe Restoration

Bring your old shoes back to life with our restoration service. We repair scuffs, replace laces, and fix soles to ensure your shoes are as good as new.



Waterproofing

Protect your shoes from water damage with our Waterproofing service. We apply a high-quality waterproofing treatment that creates a barrier against moisture, keeping your shoes dry and safe in any weather.



Shoe Deodorizing

Say goodbye to smelly shoes! Our deodorizing service removes odors and leaves your shoes smelling fresh and clean.



Stain Removal

Our Stain Removal service targets tough stains on all types of materials, including suede, leather, and fabric. Using specialized techniques, we carefully remove stubborn stains, ensuring your shoes look clean and pristine without any damage to the fabric.



Sole Repair

Extend the life of your shoes with our sole repair service. We expertly repair worn-out or damaged soles, ensuring your shoes are both comfortable and durable for continued wear.



Leather Conditioning

Keep your leather shoes looking luxurious with our conditioning service. We use high-quality products to nourish and protect leather, restoring shine and softness while preventing cracks and wear.

Testmonilas Page

Description: Customers opinion

The screenshot shows a section titled "What Our Customers Say" containing five testimonial cards. Each card includes a quote, the name of the customer, and a small decorative icon.

- "Excellent service! My shoes have never looked better! The team is professional and attentive." - **Jane D.**
- "Highly recommend Shoe Laundry! Fast and reliable service. My sneakers came back looking brand new!" - **John S.**
- "I was amazed by the quality of the cleaning! They removed stains I thought were permanent." - **Emily R.**
- "The customer service was fantastic. They listened to my needs and exceeded my expectations!" - **Michael T.**
- "I'll never go anywhere else for shoe care! Shoe Laundry is the best!" - **Sarah W.**

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The screenshot shows the Shoe Laundry login interface. It features a dark header with the logo and navigation links. The main area has a light background with a collage of various shoes at the bottom. The login form includes fields for Username and Password, and a "Login" button. A link for new users to sign up is also present.

Shoe Laundry

Home Login

SIGN UP

Username (Email)

First Name

Last Name

Email Address

Password

Address

Phone No

Gender Male

Sign Up

Shoe Laundry

Home Profile Logout

YOUR PAST ORDERS

Service Type	Shoe Type	Material Type	Delivery Date
Polishing	Boot	Suede	2024-11-09
Leather Treatment	Sneaker	Suede	2024-11-09
Leather Treatment	Formal Shoes	Leather	2024-11-04
Leather Treatment	Boot	Leather	2024-10-25
Deep Cleaning	Sneaker	Synthetic	2024-10-17

GO TO NOTIFICATIONS

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Shoe Laundry

Home Services About Us Testimonials Contact SignUp FAQ Logout

YOUR PROFILE

Name: navya varghese

Email: navya@gmail.com

Phone: 8753897678

Address: abc jjj

Edit Details

VIEW PAST ORDERS

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4.3 DATABASE DESIGN

4.3.1 Normalization

Designing a database is a complex task and the normalization theory is a useful aid in this design process. The process of normalization is concerned with transformation of conceptual schema into computer representation form.

A bad database design may lead to certain undesirable situations such as,

- Repetition of information
- Inability to represent certain information
- Loss of information

To minimize these anomalies, normalization may be used. If the database is in a normalized form, the data can be restructured and can maintain it easily. This is important that the databases using that we are using may free from data redundancy and inconsistency. For this need we maintain the tables in a normalized manner.

First Normal Form

A relation is in first Normal Form (1NF), if and only if all its attributes are based on single domain. The objective of normalizing a table is in to remove its repeating groups and ensure that all entries of the resulting table have at most single value.

Second Normal Form

A table is said to be in second Normal Form (2NF), when it is in 1 NF and every attribute in the record is functionally dependent upon the whole key, and not just a part of the key.

Third Normal Form

A relation that is in First and Second Normal Form and in which no non-primary-key attribute is transitively dependent on the primary key, then it is in Third Normal Form (3NF).

TABLE DESIGN

1. Table Name: tbl_login

Table Description: Table Login details

FIELD	DATA TYPE	CONSTRAINT	DESCRIPTION
Username	Varchar(25)	Primary Key	Email for User Login
Password	Varchar(10)	Not Null	User Password
Login_Type	Varchar(10)	Not Null	Type of user
Login_status	Boolean	Not Null	Active/Inactive

Table Name: tbl_inv

Table Description: Item details

FIELD	DATATYPE	CONSTRAINT	DESCRIPTION
Item_id	Int(5)	Primary Key	Item Id
Oredr_id	Int(5)	Foreign Key	Order Id
Item_name	Varchar(20)	Not Null	Item name
Quantity	Int(5)	Not Null	Quantity of product in stock
Unit Price	Int(5)	Not Null	Price
Last_update	Int(5)	Not Null	Last item Update

Table Name: tbl_emp

Table Description: Employee Details

FIELD	DATATYPE	CONSTRAINT	DESCRIPTION
Emp_id	Int(5)	Primary Key	Employee id
Username	Varchar(20)	Foreign Key	Employee email
Emp_fname	Varchar(20)	Not Null	Employee first name
Emp_lname	Varchar(20)	Not Null	Employee last name
Emp_address	Varchar(20)	Not Null	Employee address
Emp_phone	Numeric(10)	Not Null	Employee phone number
Emp_gender	Varchar(20)	Not Null	Employee gender
Department	Varchar(20)	Not Null	Department of the employee
Emp_join	Date	Not Null	Employee join date
Emp_status	Boolean	Not Null	Active/Inactive

2. Table Name: tbl_cust

Table Description: Customer details

FIELD	DATA TYPE	CONSTRAINT	DESCRIPTION
Cust_id	Int(5)	Primary Key	Customer id
Username	Varchar(20)	Not Null	Customer email
Cust_fname	Varchar(20)	Not Null	Customer first name
Cust_lname	Varchar(20)	Not Null	Customer last name
Cust_address	Varchar(20)	Not Null	Customer address
Cust_phone	Numeric(10)	Not Null	Customer phone number
Cust_gender	Varchar(20)	Not Null	Customer gender
Cust_status	Boolean	Not Null	Active/Inactive

3. Table Name: tbl_order

Table Description: Order details

FIELD	DATATYPE	CONSTRAINT	DESCRIPTION
Order_id	Int(5)	Primary Key	Order id
Cust_id	Int(5)	Foreign Key	Customer id
Shoe_type	Varchar(20)	Not Null	Type of shoe
Order_date	Date	Not Null	Date of order
House_name	Varchar(20)	Not Null	Building/house name of customer
Street_name	Varchar(20)	Not Null	Street name
District	Varchar(20)	Not Null	District
Pincode	Int(10)	Not Null	pincode
Pickup_date	Date	Not Null	Pickup date
Pickup_time	Time	Not Null	Pickup time
Total_cost	Decimal(10,0)	Not Null	Cost of service
Order_status	Varchar(20)	Not Null	Status of order

6. Table Name: tbl_material

Table Description: Material details

FIELD	DATA TYPE	CONSTRAINT	DESCRIPTION
Material_id	Int(7)	Primary Key	Material id
Material_name	Varchar(25)	Not Null	Material Name

7. Table Name: tbl_type

Table Description: Details of shoe type

FIELD	DATA TYPE	CONSTRAINT	DESCRIPTION
Type_id	Int(5)	Primary Key	Type id
Type_name	Varchar(20)	Not Null	Type Name

8. Table Name: tbl_payment

Table Description: Payment details

FIELD	DATA TYPE	CONSTRAINTS	DESCRIPTION
Payment_id	Int(5)	Primary Key	Payment id
Cust_id	Int(5)	Foreign Key	Customer id
Order_id	Int(5)	Foreign Key	Order id
Total_cost	Decimal(10,0)	Not Null	Total cost
Payment_method	Varchar(20)	Not Null	Method of payment
Payment_status	Varchar(20)	Not Null	Payment status
Pay_date	Varchar(20)	Not Null	Date of payment

TESTING

5.1 INTRODUCTION

Testing is the process of examining the software to compare the actual behaviour with that of the expected behaviour. The major goal of software testing is to demonstrate that faults are not present. In order to achieve this goal, the tester executes the program with the intent of finding errors. Though testing cannot show absence of errors but by not showing their presence it is considered that these are not present.

System testing is the first Stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operations commences. Testing is vital to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct and the goal will be successfully achieved. A series of testing are performed for the proposed system before the proposed system is ready for user acceptance testing.

Levels of Testing

5.1.1 Unit Testing

5.1.2 Integration Testing

5.1.3 Output Testing

5.1.4 Validation Testing

5.1.1 Unit Testing

In this each module is tested individually before integrating it to the final system. Unit test focuses verification in the smallest unit of software design in each module. This is also known as module testing as here each module is tested to check whether it is producing the desired output and to see if any error occurs.

5.1.2 Integration Testing

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. It occurs after unit testing and before validation testing.

Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing. The purpose of integration testing is to verify functional, performance, and reliability requirements placed on major design items.

5.1.3 Output Testing

No system could be useful if it does not produce the required output in the specific format. Output testing is performed to ensure the correctness of the output and its format. The output generated or displayed by the system is tested asking the users about the format required by them.

5.1.4 Validation Testing

In software project management, software testing, and software engineering, validation is the process of checking that a software system meets specifications and that it fulfills its intended purpose. The errors which are uncovered during integration testing are connected during this phase.

Unit Testing

Form	Procedure	Expected Result	Actual Result	Status
Entry Form	Choose whether to Login or Register			
Login Form	Enter valid username and password	Should validate user and providelink to user accounts	Got entry to accounts	Pass
Add Staff Form	Enter all mandatory fields	Should validate all entered fields and flash a message indicating staff added successfully	Message indicating staff added successfully is shown	Pass
Customer Registration Form	Enter all mandatory fields	Should validate all entered fields and flash a message indicating customer successfully registered	Message indicating successful registration is shown	Pass

Payment Form	Enter all mandatory fields	Should validate all entered fields and flash a message indicating payment successful	Message indicating payment successful is shown	Pass
Card Form	Enter CVV number	Should validate CVV and flash a message indicating payment successful	Message indicating payment successful is shown	Pass
Card Form	Enter all mandatory fields	Should validate all entered fields and flash a message indicating payment successful	Message indicating staff payment successful is shown	Pass
Reports	Click report to see the reports	Should display reports	Correct report is displayed	Pass

Integration Testing

Form	Expected Result	Actual Result	Status
Login and user account forms	Get entry to appropriate user page is displayed	Appropriate user page is displayed	Pass
Staff Form	Must add Staff details successfully	Insertion is successful	Pass
Customer Registration Form	Must add Customer details successfully	Insertion is successful	Pass
Payment Form	Must enter payment details successfully	Specified entry updated	Pass
Card Form	Must enter payment details successfully	Specified entry updated	Pass
Reports	Must display reports	Reports displayed	Pass

Validation Testing

Form	Expected Result	Actual Result	Status
Create user	Check all mandatory fields and validate all entered data fields	If any error found display message and the same screen is displayed else record saved and confirmed	Pass
Edit User	Edit the row corresponding to the value entered	If the value entered is invalid error message is thrown otherwise message indicating successful deletion	Pass

IMPLEMENTATION

6.1 INTRODUCTION

Implementation is the stage in the project where theoretical design is turned into a working system and is giving confidence on the new system for the users which will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints on implementations, design of methods to achieve the changeover, an evaluation, of change over methods. Apart from planning major tasks of preparing the implementation are education and training of users. The major complex system being implemented the more evolved will be the system analysis and the design effort required just for implementation. An implementation coordination committee based on policies of individual organisation has been appointed. The implementation process begins with preparing plan for implementation of the system. According to this plan the activities are to be carried out discussions made regarding the equipment and resources and the additional equipment has to be acquired to implement the new system.

Implementation is the final and important phase. The most critical stage in achieving a successful new system and in giving the users confidence that the new system will work and be effective. The system can be implemented only after thorough testing is done and if found to working according to the specification.

6.2 INSTALLATION PROCEDURE

Installation of software refers to the final installation of the package in the real environment, to the satisfaction of the intended users and the successful operation of the system. In many organizations, those who commission the software development project will not be the one to operate them. In the initial stage, the person who is not sure that the software will make the jobs easier will doubt about the software.

Implementation is the stage of the project where the theoretical design is turned into a working system. At this stage, the main work load, the greatest upheaval and the major impact on the existing system shifts to the user department. If the implementation is not carefully planned and controlled, it can cause confusion.

Implementation includes all those activities that take place to convert from the old system to new one. Proper implementation is essential to provide a reliable system to meet the organizational requirements. Successful implementation may guarantee improvement in the organization using the new system, but improper installation will prevent it. The process of putting the developed system in to actual use is called system implementation.

6.3 IMPLEMENTATION PLAN

The Implementation Plan describes how the information system will be deployed, installed and transitioned into an operational system. The plan contains an overview of the system, a brief description of the major tasks involved in the implementation, the overall resources needed to support the implementation effort, and any site-specific implementation requirements. The plan is developed during the Design Phase and is updated during the Development Phase the final version is provided in the Integration and Test Phase and is used for guidance during the Implementation Phase.

CONCLUSION

7.1 FUTURE ENHANCEMENT

We have tried our best to present the information effectively, yet there can be further enhancement in the application. We have taken care of all the critical aspects, which were needed to be taken care of. Because of fast changes in the world of programming this system will gradually get outdated and less effective. For the time being it's possible to overcome problems by amendments and minor modifications to acknowledge the need of fundamental design.

Though the new system provides base for improving the efficiency of operations, there are a lot of future enhancements that can be added to this project. Keeping this in view, a provision has been made in the system to facilities easy modification updating in the future. Any modification will not affect the normal working of the system.

The development system is very interactive, coded in such a way to ensure maximum user friendliness and also allows flexibility for future.

It can be extended in such a way that:

- Improve the security.
- Improve the performance.

BIBLIOGRAPHY

BIBLIOGRAPHY

Websites References

Following websites are referred to create this project reports.

- www.stackoverflow.com
- www.mysqltutorial.com
- www.geeksforgeeks.org
- www.w3schools.com
- www.getbootstrap.com

APPENDICES

APPENDICES

APPENDIX A

Sample Source Code/Pseudo Code

Login Page Code

```
<?php  
session_start();  
include("connect.php");  
  
$username = " ";  
$password = " ";  
$login_error = " ";  
  
if ($_SERVER['REQUEST_METHOD'] == 'POST') {  
  
    $username = trim($_POST['username']);  
    $password = $_POST['password'];  
    $user_type = $_POST['user_type'];  
  
    if ($user_type === 'admin') {  
  
        $query = "SELECT * FROM admin WHERE username = ? AND  
password = ?";  
  
        $stmt = $conn->prepare($query);  
        $stmt->bind_param("ss", $username, $password);  
        $stmt->execute();  
        $result = $stmt->get_result();  
  
        if ($result->num_rows == 1) {  
            $_SESSION['admin'] = $username;  
            header("Location: dashboard.php");  
            exit();  
        }  
    }  
}
```

```
    } else {

        $login_error = "Invalid admin credentials./";

    }

} elseif ($user_type === 'staff') {

    $query = "SELECT employee_id, username, password FROM employees
WHERE username = ?";

    $stmt = $conn->prepare($query);

    $stmt->bind_param("s", $username);

    $stmt->execute();

    $result = $stmt->get_result();

    if ($result->num_rows == 1) {

        $employee = $result->fetch_assoc();

        if (password_verify($password, $employee['password'])) {

            $_SESSION['employee_id'] = $employee['employee_id'];

            $_SESSION['username'] = $employee['username'];

            header("Location: dash.php");

            exit();

        } else {

            $login_error = "Invalid staff password./";

        }

    } else {

        $query = "SELECT courier_id, username FROM courier WHERE
username = ?";

        $stmt = $conn->prepare($query);

        $stmt->bind_param("s", $username);

        $stmt->execute();

        $result = $stmt->get_result();
```

```
if ($result->num_rows == 1) {  
    $courier = $result->fetch_assoc();  
    $_SESSION['courier_id'] = $courier['courier_id'];  
    $_SESSION['username'] = $courier['username'];  
    header("Location: cor_dashboard.php");  
    exit();  
}  
else {  
    $login_error = "Invalid staff or courier credentials.";  
}  
}  
}  
}  
  
elseif ($user_type === 'customer') {  
    $query = "SELECT cust_id, cust_fname, password FROM customers  
    WHERE username = ?";  
    $stmt = $conn->prepare($query);  
    $stmt->bind_param("s", $username);  
    $stmt->execute();  
    $stmt->store_result();  
    if ($stmt->num_rows == 1) {  
        $stmt->bind_result($cust_id, $cust_fname, $hashed_password);  
        $stmt->fetch();  
        if (password_verify($password, $hashed_password)) {  
            $_SESSION['username'] = $username;  
            $_SESSION['cust_fname'] = $cust_fname;  
            $_SESSION['cust_id'] = $cust_id;  
            header("Location: books.php");  
            exit();  
        }  
    }  
}
```

```
        } else {

            $login_error = "Invalid customer password./";

        }

    } else {

        $login_error = "No customer account found./";

    }

}

$stmt->close();

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login</title>

<link rel="stylesheet" href="st.css">

<style>

.radio-group {

    display: flex;

    gap: 15px;

    align-items: center;

    margin-bottom: 15px;

}

.radio-group input[type="radio"] {

    accent-color: blue;

    transform: scale(1.2);

}
```

```
}

.radio-group label {
    color: #483d8b;
    font-weight: bold;
    margin-right: 10px;
}

</style>

</head>

<body>

<header>

<h1>Shoe Laundry</h1>

<p><a href="home.php">Home</a> | <a href="contact.php">Contact Us</a></p>

</header>

<div class="login-container">

<section class="login-form">

<form method="POST" action="login.php">

<h2>LOGIN</h2><br>

<div class="radio-group">

<label>Login as:</label>

<label><input type="radio" name="user_type" value="admin" required> Admin</label>

<label><input type="radio" name="user_type" value="staff" required> Staff</label>

<label><input type="radio" name="user_type" value="customer" required> Customer</label>

</div>

<?php if (!empty($login_error)): ?>
```

```
<div class="error-message" style="color: red;"><?php echo  
htmlspecialchars($login_error); ?></div>  
  
<?php endif; ?>  
  
<div class="input-field">  
  
    <input type="text" name="username" value="<?php echo  
htmlspecialchars($username); ?>" required>  
  
    <label>Username</label>  
  
</div>  
  
<div class="input-field">  
  
    <input type="password" name="password" required>  
  
    <label>Password</label>  
  
</div>  
  
<button type="submit">Login</button>  
  
</form>  
  
<p>Don't have an account? <a href="signup.php">Sign Up here</a>.</p>  
  
</section>  
  
</div>  
  
</body>  
  
</html>
```

Signup Page Code

```
<?php
include("connect.php");

// Initialize variables for form input
$username = "";
$cust_fname = "";
$cust_lname = "";
$cust_address = "";
$phone = "";
$gender = "";
$signup_error = "";

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the posted input
    $username = trim($_POST['username'] ?? "");
    $cust_fname = trim($_POST['firstname'] ?? "");
    $cust_lname = trim($_POST['lastname'] ?? "");
    $cust_address = trim($_POST['address'] ?? "");
    $password = $_POST['password'] ?? "";
    $phone = trim($_POST['phone'] ?? "");
    $gender = $_POST['gender'] ?? "";

    // Validate input fields
    if (empty($username) || empty($cust_fname) || empty($cust_lname) ||
empty($cust_address) || empty($password) || empty($phone)) {
        $signup_error = "All fields are required.";
    } else {
        // Validate email format
        if (!filter_var($username, FILTER_VALIDATE_EMAIL)) {
            $signup_error = "Invalid email format.";
        }
    }
}
```

```
 } elseif (!preg_match("/^\d{10}$/", $phone)) { // Check if phone number is 10 digits

$signup_error = "Phone number must be 10 digits./";

} else {
    // Hash the password for security
    $hashed_password = password_hash($password, PASSWORD_DEFAULT);

    // Check if username or phone already exists in the database
    $check_sql = "SELECT * FROM customers WHERE username = ? OR phone =
?";

    $check_stmt = $conn->prepare($check_sql);
    if ($check_stmt) {
        $check_stmt->bind_param("ss", $username, $phone);
        $check_stmt->execute();
        $check_stmt->store_result();

        if ($check_stmt->num_rows > 0) {
            $signup_error = "Username or phone number already exists. Please use a different one.";
        } else {
            // Insert new user if validations pass
            $sql = "INSERT INTO customers (username, password, cust_fname,
cust_lname, cust_address, phone, gender) VALUES (?, ?, ?, ?, ?, ?, ?)";
            $stmt = $conn->prepare($sql);
            if ($stmt) {
                $stmt->bind_param("sssssss", $username, $hashed_password,
$cust_fname, $cust_lname, $cust_address, $phone, $gender);

                if ($stmt->execute()) {
                    // Redirect to login page after successful signup
                    header("Location: login.php");
                    exit();
                }
            }
        }
    }
}
```

```
 } else {
    $signup_error = "Sign up failed! Please try again.";
}
} else {
    $signup_error = "Database error! Please try again later.";
}
}
$check_stmt->close();
} else {
    $signup_error = "Database error! Please try again later.";
}
if (isset($stmt)) {
    $stmt->close();
}
}
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sign Up</title>
    <link rel="stylesheet" href="st.css">
</head>
<body>
    <header>
        <h1>Shoe Laundry</h1>
        <p><a href="home.php">Home </a>
            <a href="contact.php">Contact Us </a>
            <a href="login.php">Login</p></a>
    </header>
```

```
<div class="wrapper">
    <section class="sign-form">
        <form method="POST" action="signup.php">
            <h2>SIGN UP</h2>
            <?php if (!empty($signup_error)): ?>
                <div class="error-message" style="color: red;"><?php echo
htmlspecialchars($signup_error); ?></div>
            <?php endif; ?>
            <div class="input-field">
                <input type="text" name="username" value="<?php echo
htmlspecialchars($username); ?>" required>
                <label>Email</label>
            </div>
            <div class="input-field">
                <input type="text" name="firstname" value="<?php echo
htmlspecialchars($cust_fname); ?>" required>
                <label>First Name</label>
            </div>
            <div class="input-field">
                <input type="text" name="lastname" value="<?php echo
htmlspecialchars($cust_lname); ?>" required>
                <label>Last Name</label>
            </div>
            <div class="input-field">
                <input type="password" name="password" required>
                <label>Password</label>
            </div>
            <div class="input-field">
                <input type="text" name="address" value="<?php echo
htmlspecialchars($cust_address); ?>" required>
                <label>Address</label>
            </div>
            <div class="input-field">
```

```
<input type="text" name="phone" value="<?php echo htmlspecialchars($phone); ?>" required>
    <label>Phone No</label>
    </div>
    <div class="input-field">
        <label>Gender</label>
        <select name="gender" required>
            <option value="Male" <?php echo ($gender == "Male") ? 'selected' : ">>Male</option>
            <option value="Female" <?php echo ($gender == "Female") ? 'selected' : ">>Female</option>
        </select>
    </div>
    <button type="submit">Sign Up</button>
</form>
</section>
</div>
</body>
</html>
```