

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590 018, KARNATAKA**



**WEB TECHNOLOGY AND IT'S APPLICATIONS
MINI PROJECT REPORT**

ON

“COURIER SERVICE MANAGEMENT SYSTEM”

Submitted in the partial fulfillment of requirements

FOR

**WEB TECHNOLOGY AND IT'S APPLICATIONS
(18CS63)**

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PROJECT GUIDE

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2022-2023

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Davanagere – 577004



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CERTIFICATE

This is to certify that **Jeevan H K, Mayur A Kasal, Mohith V Naik and Pranav Tilavalli** bearing USN **4BD20CS040, 4BD20CS054, 4BD20CS058 and 4BD20CS070** respectively of Computer Science and Engineering department have satisfactorily submitted the Mini Project report entitled **“COURIER SERVICE MANAGEMENT SYSTEM”** for **6th SEM WEB TECHNOLOGY AND IT’S APPLICATION MINI PROJECT (18CS63)**. The project report has been approved as it satisfies the academic requirement for the year 2023-23

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ACKNOWLEDGEMENT

Salutations to our beloved and highly esteemed institute, “**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**” for having well-qualified staff and labs furnished with the necessary equipment.

We express our sincere thanks to our resourceful guide **Dr. Naseer R** Assistant Professor, Department of Computer Science and Engineering, B.I.E.T., Davanagere, who helped us in every aspect of our project. We are in debted to his discussions about the technical aspects and suggestionspertaining to our project.

We are grateful to **Dr. Nirmala C R**, Professor and H.O.D, Department of Computer Science and Engineering, B.I.E.T., Davanagere, for endeavoring encouragement, facilities, and extended support.

We also express our wholehearted gratitude to our respected Principal, **Dr. H B Aravind** for his moral support and encouragement.

We would like to extend our gratitude to all staff of the **Department of Computer Scienceand Engineering** for the help and support rendered to us. We have benefited a lot from the feedback, and suggestions given by them.

We would like to extend our gratitude to all our family members and friends especially fortheir advice and moral support.

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Vision and Mission of the Institute

Vision

“To be a center of excellence recognized nationally internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention.

Mission

“BIET contributes to the growth and development of its students by imparting a broadbased engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.”

Vision and Mission of the Computer Science and Engineering Department

Vision

“To be a center-of-excellence by imbibing state-of-the-art technology in the field of Computer Science and Engineering, thereby enabling students to excel professionally and be ethical.”

Mission

1.	Adapting best teaching and learning techniques that cultivates Questioning and Reasoning culture among the students.
2.	Creating collaborative learning environment that ignites the critical thinking in students and leading to the innovation.
3.	Establishing Industry Institute relationship to bridge skill gap and make them industry ready and relevant.
4.	Mentoring students to be socially responsible by inculcating ethical and moral values.

Program Educational Objectives (PEOs):

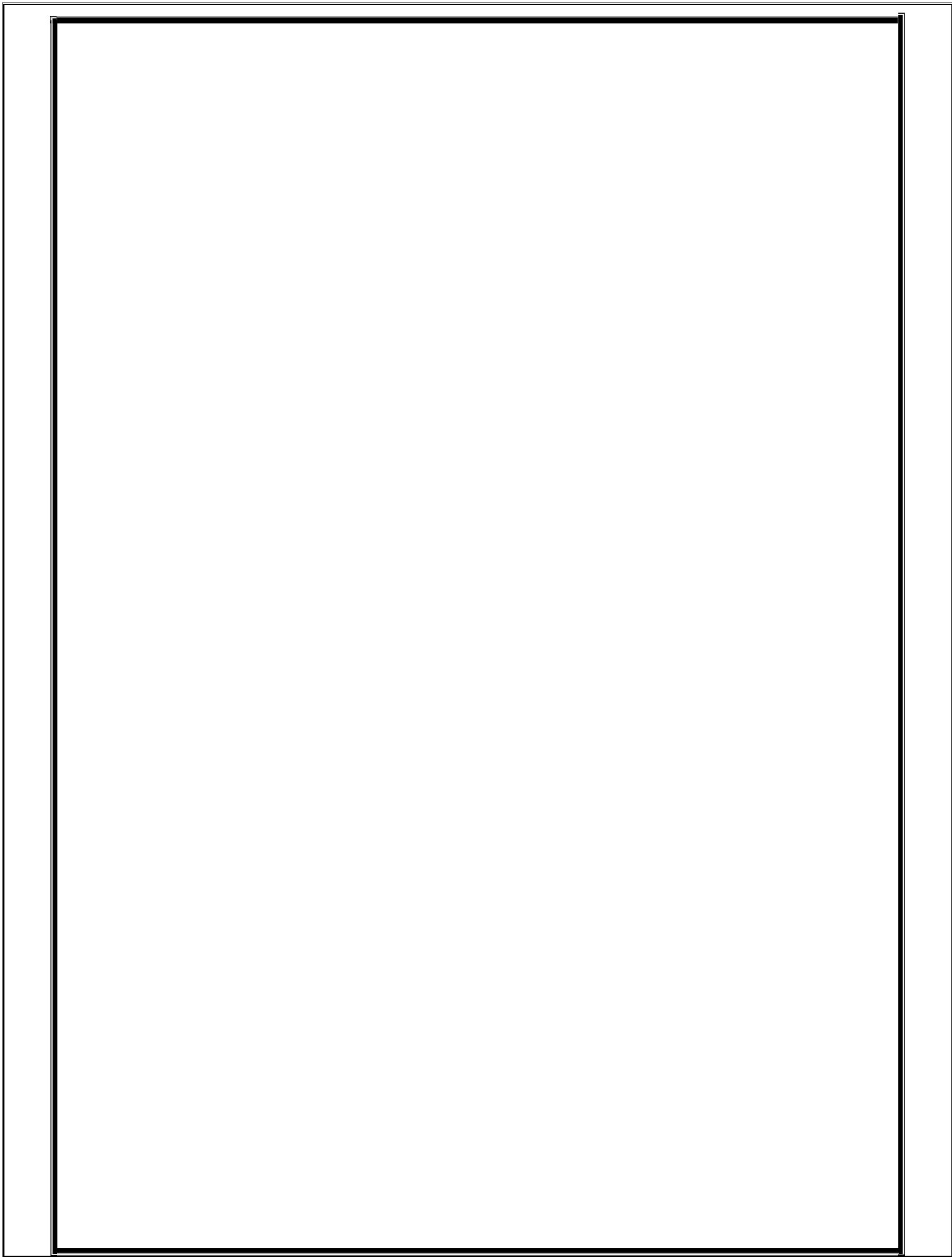
PEO1	To apply skills acquired in the discipline of computer science and engineering for solving Societal and industrial problems with apt technology intervention.
PEO2	To continue their carrier ion industry /academia or pursue higher studies and research.
PEO3	To become successful entrepreneurs, innovators to design and develop software products and services that meets societal, technical and business challenges.
PEO4	To work in the diversified environment by acquiring leadership qualities with effective communication skills accompanied by professional and ethical values.

Program Specific Outcomes (PSOs):

PSO1	Analyze and develop solutions for problems that are complex in nature but applying the knowledge acquired from the core subjects of this program.
PSO2	To develop secure, scalable, resilient and distributed applications for industry and societal Requirements.
PSO3	To learn and apply the concepts and contract of emerging technologies like artificial intelligence, machine learning, deep learning, big-data analytics, IOT, cloud computing etc for any real time problems.

COURSE OUTCOMES

CO1	Adapt HTML and CSS syntax and semantics to build web pages.
CO2	Construct and visually format tables and forms using HTML and CSS
CO3	Inspect JavaScript frameworks like jQuery and Backbone which facilitates developerto focus on core features.



ABSTRACT

The Courier Management System deals with the increasing demand of transporting necessary things from one place to another as there is a lot of E-commerce companies and individuals too need a medium for transportation of goods. The main role of the system is to assign the courier requests placed by the users and to deal with the timely delivery of the requests placed. The major drawback of the Courier companies nowadays is that there is a major imbalance in distribution of the courier jobs to the working personnel as there are a lot of requests are placed in day to day basis and also distances to be travelled by the personnel are sometimes really far away. So the most effective improvements can be done only by setting up more and more branches across the country which can save the travelling expenses and helps in the effective sales. The system is designed by using the tools like HTML, CSS, JavaScript, PHP. The major features of the system includes responsive design, simplified courier request placing, verification of phone number and email.

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LIST OF ACRONYMS

Sl.no	Acronyms	Expansion
1.	HTML	Hypertext Markup Language
2.	CSS	Cascading Style Sheet
3.	PHP	Hypertext Preprocessor
4.	SQL	Structure Query Language
5.	DBMS	Database Management System
6.	ER Diagram	Entity Relationship Diagram

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The Courier Service Management System is a web-based project designed to streamline and automate the operations of a courier service company. It offers a comprehensive platform for managing package tracking, delivery scheduling, and customer interactions. With its user-friendly interface and robust features, the system enhances efficiency, improves customer satisfaction, and provides real-time visibility into the entire delivery process. It also includes reporting and analytics capabilities to help businesses make data-driven decisions and optimize their courier services

1.2 HTML(Hypertext Markup Language)

HTML stands for Hypertext Markup Language. It is used to design web pages using a markup language. HTML is a combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text

1.3 CSS(Cascading Style Sheet)

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independently of the HTML that makes up each web page. It describes how a webpage should look: it prescribes colours, fonts, spacing, and much more. In short, you can make your website look however you want. CSS lets developers and designers define how it behaves, including how elements are positioned in the browser.

While HTML uses tags, CSS uses rulesets. CSS is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

1.4 PHP (HYPERTEXT PREPROCESSOR)

PHP is the most popular and widely used server-side scripting language for web development. It is used to make the Dynamic pages in websites. Rasmus Lerdorf was the creator of PHP in 1995. PHP codes are embedding in HTML source codes for making the page dynamic. PHP can deal with most of the requirements in web development like Database, File handling, String operations, Arrays, Graphics, File Uploads, Data processing etc. PHP can be used in any operating system with a web server Supports PHP. Apache web server is one of the popular web servers dealing with PHP + MySQL. Moreover, PHP is absolutely free to use.

1.5 PROBLEM STATEMENT

Due to the improvements in technology in faster processors in mobile phone chips and apps, the general user has shorter attention span. Many courier service websites do not have enough user-friendly user interfaces and have complicated details to be filled in by the user. Furthermore, the backend and frontend processes are fragmented and dilutes the customer satisfaction. Thus, there is a need for an end to end solution to plug this gap.

1.6 OBJECTIVES

The main objective of the Courier Management System is to manage the details of Courier, Email Notification, Delivery, Customer. It manages all the information about Courier, Receiver and Customer. The purpose of the project is to build an application program to reduce the manual work for managing the Courier, Email Notification, Bill and tracking details.

To achieve the above demands we have framed the following objectives:

- To deliver products to customers.
- To manage the email notification details online for bill details, payment details, Courier.
- provide faster deliveries of parcels, packages and documents than any other method of transporting packages.
- To offer a range of services including domestic and international courier delivery, cargo transport, warehousing and distribution, and e-commerce fulfillment.

CHAPTER 2

REQUIREMENT SPECIFICATION

2.1 HARDWARE REQUIREMENTS

The hardware required for the development of this project is:

- Processor : Intel Core i3 or above
- Processor speed : 2.4 GHz
- RAM : 8 GB RAM
- System Type : 64-Bit Operating System

2.2 SOFTWARE REQUIREMENTS

The software required for the development of this project is:

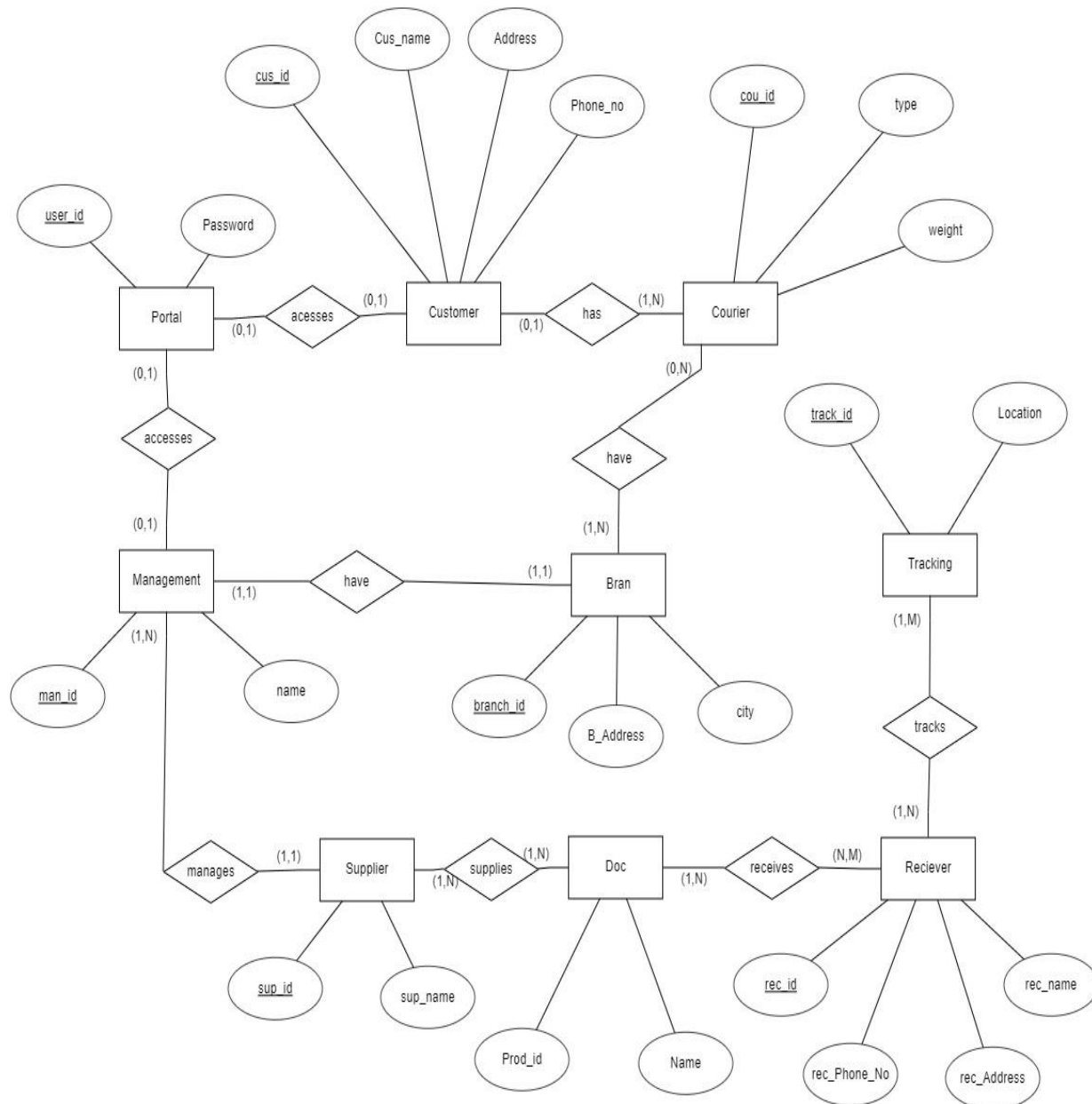
- Software : MySQL and Xampp.
- OS : Windows 7 and above
- Front End : HTML, CSS and jQuery.
- Programming Language : Php and SQL
- Database : MySQL

CHAPTER 3

DESIGNS

3.1 ENTITY RELATIONSHIP DIAGRAM:

COURIER SERVICE MANAGEMENT



3.2 DESCRIPTION

The ER Model figure shows conceptual view of the database. It works around real-world entities and the associations among them. At view level, the ER model is considered a good option for designing databases. So, let's see each entity

ADMIN TABLE

This entity stores the information about admin who registers and logs in using his username and password

USER TABLE

This entity stores the information about the user who registers. Attributes are user_id, name, email, password, gender, phone number.

BRANCH TABLE

This entity stores the information about the branch ID, branch address, City and man ID.

COURIER TABLE

This entity stores information about the courier ID, type, weight, cust ID, Branch ID.

DOC TABLE

This entity stores the details of Product name, supplier ID, receiver ID.

RECEIVER TABLE

This entity stores receiver ID, receiver phone, receiver address, receiver name.

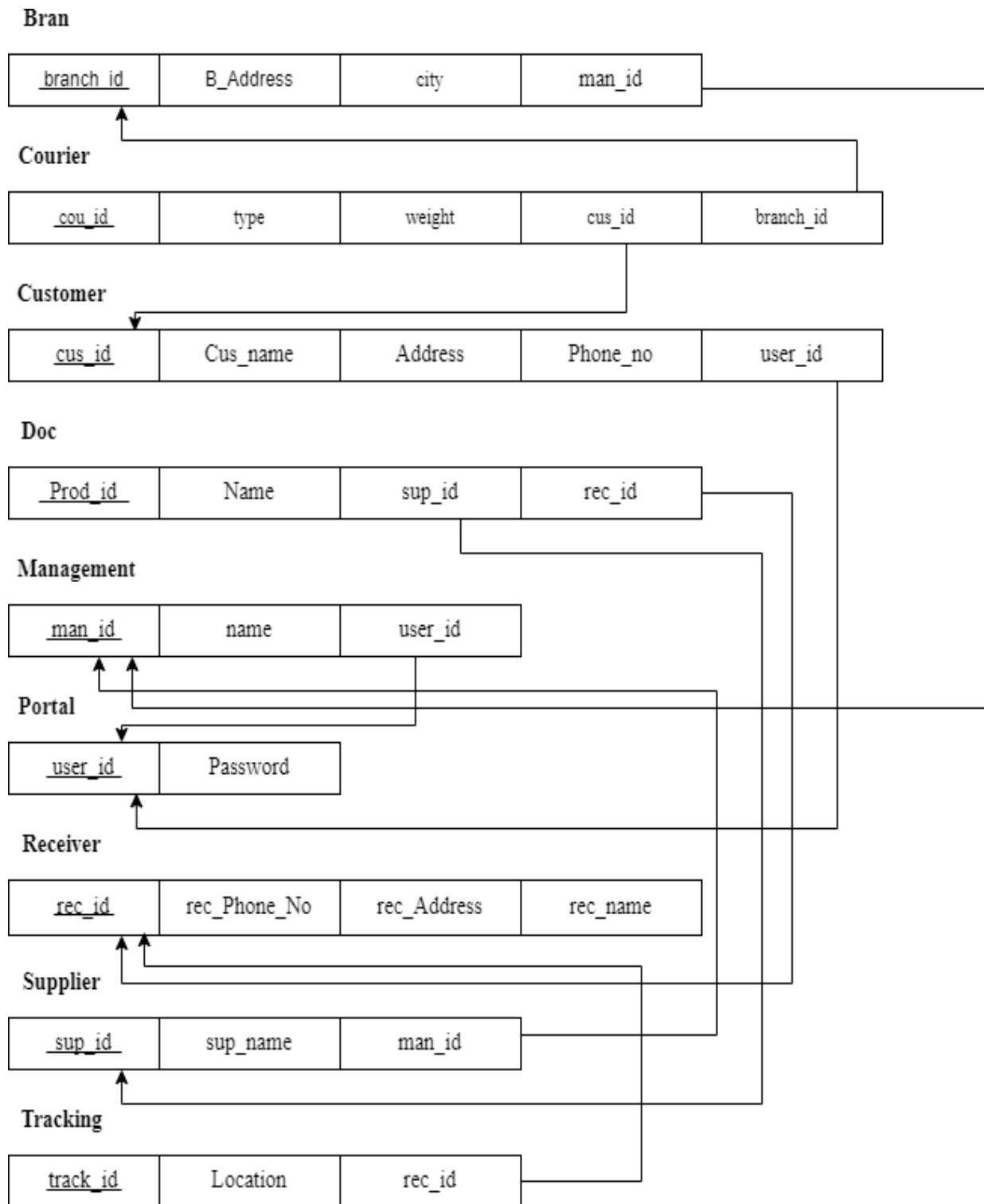
SUPPLIER TABLE

This entity stores the details of the supplier ID, supplier name and man ID.

TRACKING TABLE

This entity stores the details of tracking ID, location and receiver ID.

3.3 Schema Diagram



CHAPTER 4

IMPLEMENTATION CODE

4.1 Connection code for front end and back end:

```
<?php
    $istrue = false; if(isset($_POST['Cus_Name'])) {
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "courier_management_system";

    $conn = new mysqli($servername, $username, $password, $dbname); if
    ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
    }
```

4.2 SQL Statements:

Create Commands:

```
CREATE TABLE `bran` (
  `branch_id` int(11) NOT NULL,
  `B_Address` varchar(88) DEFAULT NULL,
  `city` varchar(88) DEFAULT NULL,
  `man_id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

INSERT INTO `bran` (`branch_id`, `B_Address`, `city`, `man_id`)
VALUES(8001, 'Ashok Chowk', 'Solapur', 5001),
(8002, 'Royal Mint', 'Madrid', 5002),
(8003, 'World Street', 'Royal Spain', 5003);
```

```
CREATE TABLE `courier` (  
  `cou_id` int(11) NOT NULL,  
  `type` varchar(88) DEFAULT NULL,  
  `weight` int(10) DEFAULT NULL,  
  `cus_id` int(11) DEFAULT NULL,  
  `branch_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `courier`

--

```
INSERT INTO `courier` (`cou_id`, `type`, `weight`, `cus_id`, `branch_id`)  
VALUES(5001, 'Premium', 2, 18031040, 8002),  
(5002, 'Normal', 1, 18031041, 8002),  
(5003, 'Premium', 10, 18031040, 8001);
```

Table structure for table `customer`

--

```
CREATE TABLE `customer` (  
  `cus_id` int(11) NOT NULL,  
  `Cus_Name` varchar(88) DEFAULT NULL,  
  `Address` varchar(88) DEFAULT NULL,  
  `Phone_No` number(10) DEFAULT NULL,  
  `user_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `customer`

--

```
INSERT INTO `customer` (`cus_id`, `Cus_Name`, `Address`, `Phone_No`, `user_id`)  
VALUES(18031040, 'Sharma', 'Mumbai', '9028376154', 2001),  
(18031041, 'Kohli', 'Banglore', '9807674530', 2002);
```

Table structure for table `doc`

--

```
CREATE TABLE `doc` (  
  `Prod_id` int(11) NOT NULL,  
  `Name` varchar(88) DEFAULT NULL,  
  `sup_id` int(11) DEFAULT NULL,  
  `rec_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `doc`

```
INSERT INTO `doc` (`Prod_id`, `Name`, `sup_id`, `rec_id`)
VALUES(9001, 'Ashish', 4001, 180310401),
(9002, 'Rahul', 4002, 180310411);
```

Table structure for table `management`
--

```
CREATE TABLE `management` (
  `man_id` int(11) NOT NULL,
  `name` varchar(88) DEFAULT NULL,
  `user_id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--
-- Dumping data for table `management`
--

```
INSERT INTO `management` (`man_id`, `name`, `user_id`)
VALUES(5001, 'Fozail', 1001),
(5002, 'Ananya', 1002),
(5003, 'Nairobi', 1003);
```

Table structure for table `portal`
--

```
CREATE TABLE `portal` (
  `user_id` int(11) NOT NULL,
  `Password` varchar(88) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--
-- Dumping data for table `portal`
--

```
INSERT INTO `portal` (`user_id`, `Password`)
VALUES(1001, '1111'),
(1002, '2222'),
(1003, '3333'),
(2001, 'Sharma@123'),
(2002, 'Kohli@123');
```

Table structure for table `receiver`

--

```
CREATE TABLE `receiver` (  
  `rec_id` int(11) NOT NULL,  
  `rec_Phone_No` varchar(10) DEFAULT NULL,  
  `rec_Address` varchar(88) DEFAULT NULL,  
  `rec_Name` varchar(88) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `receiver`

--

```
INSERT INTO `receiver` (`rec_id`, `rec_Phone_No`, `rec_Address`, `rec_Name`)  
VALUES(180310401, '9807675474', 'Delhi', 'Shikhar'),  
(180310402, '9087687576', 'Russia', 'Valdamir'),  
(180310411, '9283708076', 'Ranchi', 'Mahendra');
```

Table structure for table `supplier`

--

```
CREATE TABLE `supplier` (  
  `sup_id` int(11) NOT NULL,  
  `sup_name` varchar(88) DEFAULT NULL,  
  `man_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `supplier`

--

```
INSERT INTO `supplier` (`sup_id`, `sup_name`, `man_id`)  
VALUES(4001, 'Jackie Chan', 5001),  
(4002, 'Oslo', 5002),  
(4003, 'Jobs', 5003);
```

Table structure for table `tracking`

--

```
CREATE TABLE `tracking` (  
  `track_id` int(11) NOT NULL,  
  `Location` varchar(88) DEFAULT NULL,  
  `rec_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

--

-- Dumping data for table `tracking`

--

```
INSERT INTO `tracking` (`track_id`, `Location`, `rec_id`)
VALUES(7001, 'Mumbai', 180310401),
(7002, 'Banglore', 180310411),
(7003, 'Mumbai', 180310402);
```

CHAPTER 5

SNAPSHOTS

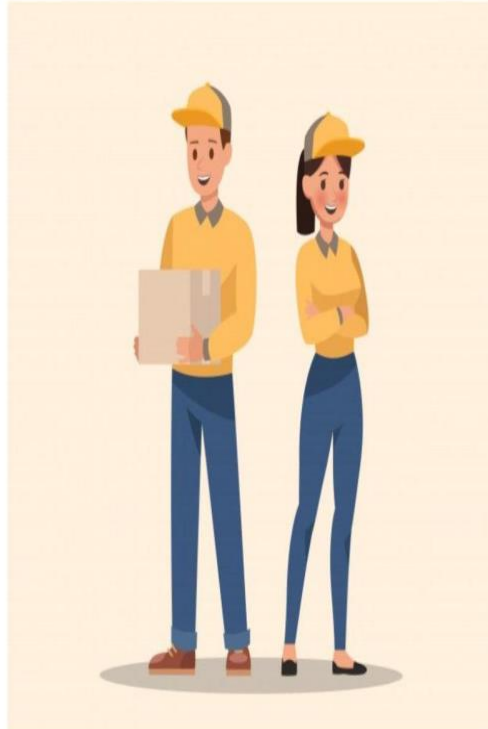
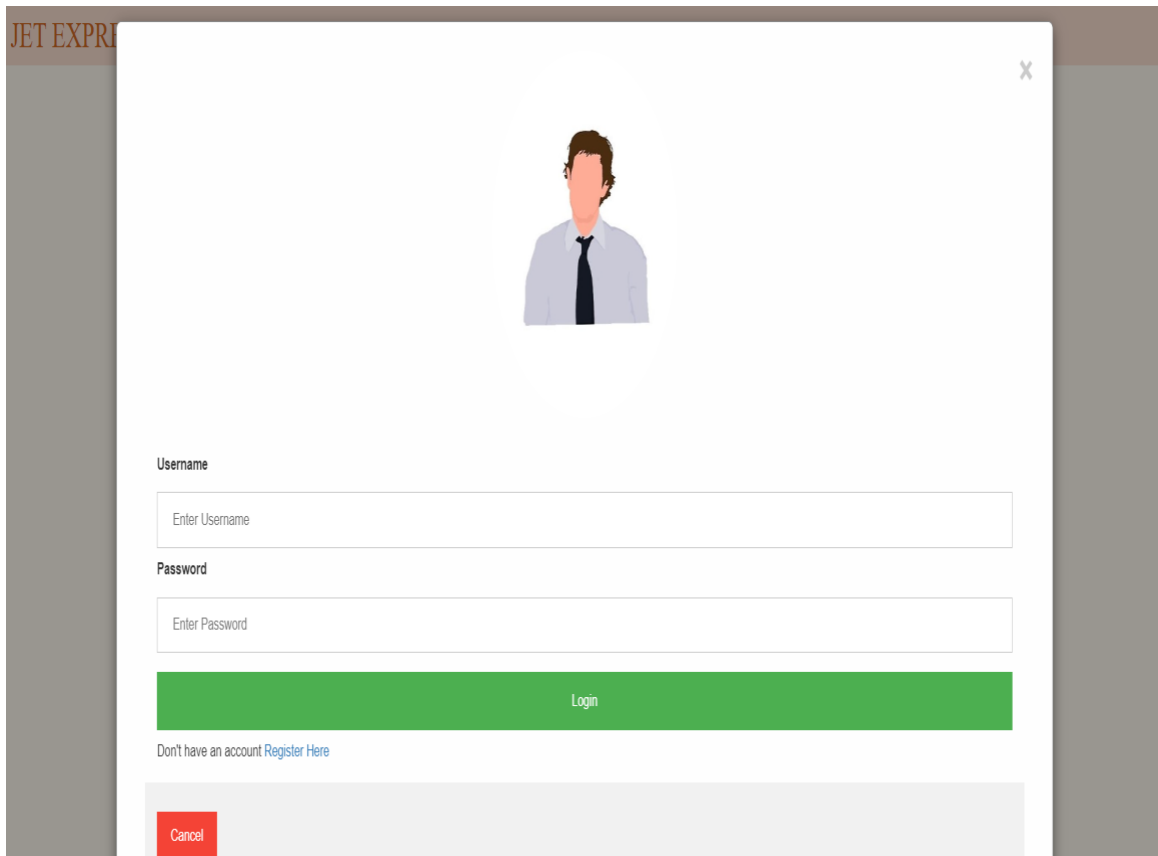


Fig 5.1: Courier service front page

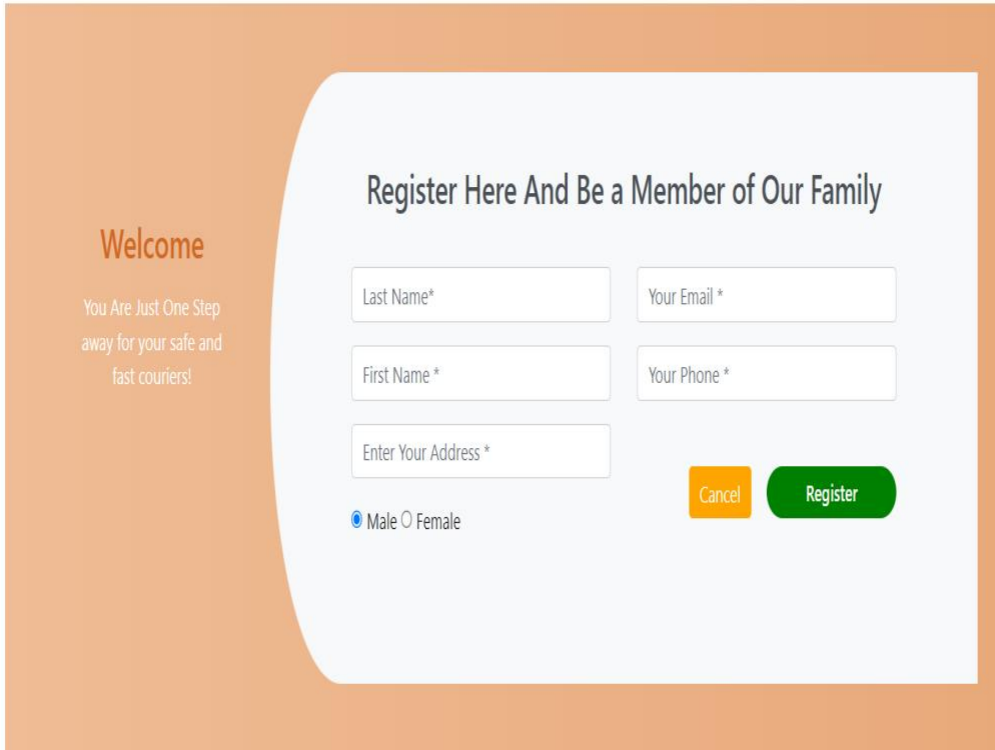


Fig 5.2: Contact details



The image shows a user login page for a system. At the top left, the text "JET EXPRI" is partially visible. The main content area is white and contains a placeholder for a user profile picture, represented by a cartoon illustration of a man in a light blue shirt and dark tie. Below the profile picture, there are two input fields: one for "Username" with the placeholder text "Enter Username", and one for "Password" with the placeholder text "Enter Password". Below these fields is a green button labeled "Login". Under the "Login" button, there is a link that says "Don't have an account [Register Here](#)". At the bottom left of the form, there is a red button labeled "Cancel". A small "X" icon is located in the top right corner of the white form area.

Fig 5.3: User login page



The image shows a web registration form titled "Register Here And Be a Member of Our Family". The form is set against an orange background. On the left, there is a "Welcome" message in orange text, followed by the text "You Are Just One Step away for your safe and fast couriers!". The registration form itself is a light gray rounded rectangle containing several input fields: "Last Name*", "Your Email*", "First Name*", "Your Phone*", and "Enter Your Address*". Below these fields are radio buttons for "Male" (selected) and "Female". To the right of the form are two buttons: an orange "Cancel" button and a green "Register" button.

Welcome

You Are Just One Step away for your safe and fast couriers!

Register Here And Be a Member of Our Family

Last Name*

Your Email *

First Name *

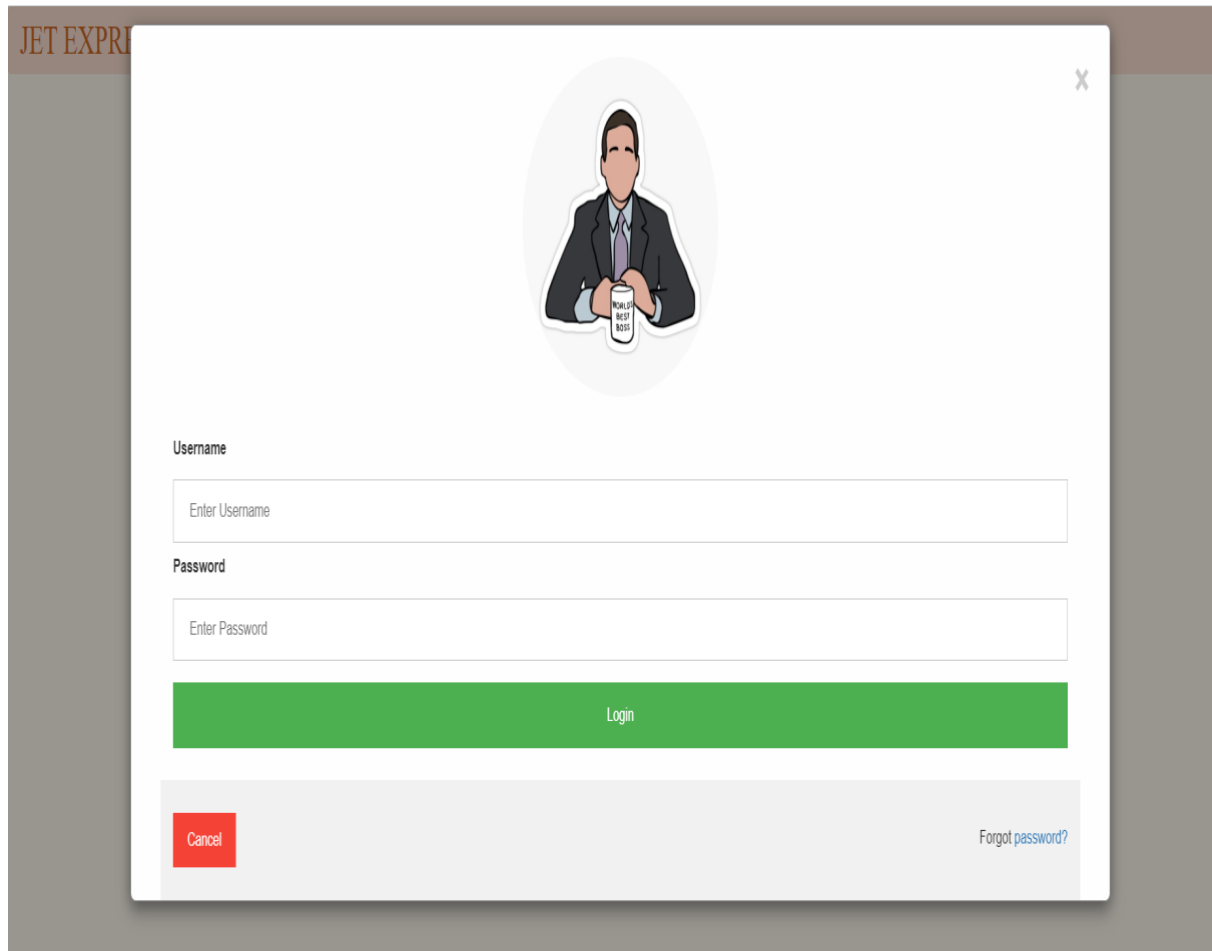
Your Phone *

Enter Your Address *

☒ Male ☐ Female

Cancel Register

Fig 5.4: New user registering page



The image shows a web application interface for an admin login. At the top left, the text "JET EXPRI" is partially visible. The main content area is a white modal window with a close button (X) in the top right corner. Inside the modal, there is a circular profile picture of a man in a suit holding a coffee cup. Below the profile picture, there are two input fields: "Username" with a placeholder "Enter Username" and "Password" with a placeholder "Enter Password". A green "Login" button is positioned below the password field. At the bottom left of the modal is a red "Cancel" button, and at the bottom right is a blue link that says "Forgot password?".

Fig 5.5: Admin login page

The image shows a web form for registering a new courier. The form is titled "Enter the Courier and Receiver Information." and is set against a light orange background. On the left side of the form, there is a "Welcome" message in orange text, followed by the text "You Are Just One Step away from sending the courier!". The form itself is a white rounded rectangle containing several input fields. On the left side of the form, there are three input fields: "What Your Courier Contains?", "Enter the Weight(in KGs)", and "Enter the Type of Courier". On the right side, there are five input fields: "Receiver's First Name*", "Receiver's Last Name *", "Enter Destination Address *", "Receiver's Email *", and "Receiver's Phone No*". At the bottom right of the form, there are two buttons: an orange "Cancel" button and a green "SUBMIT" button.

Welcome

You Are Just One Step
away from sending the
courier!

Enter the Courier and Receiver Information.

What Your Courier Contains?

Receiver's First Name*

Enter the Weight(in KGs)

Receiver's Last Name *

Enter the Type of Courier

Enter Destination Address *

Receiver's Email *

Receiver's Phone No*

Cancel

SUBMIT

Fig 5.6: Registering for new courier



Fig 5.7: Admin front page

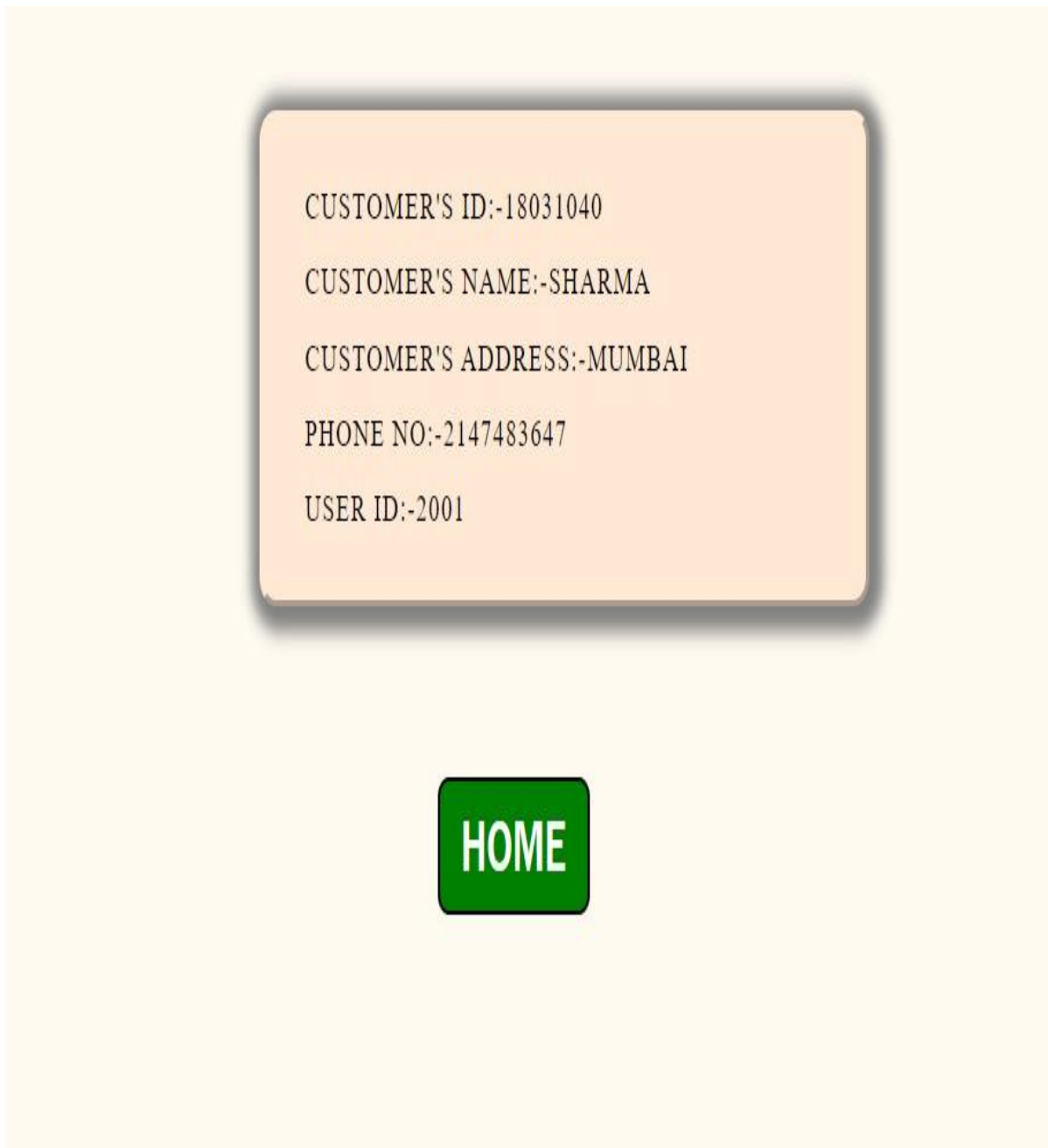


Fig 5.8: Customer details display for admin

CONCLUSION

The Courier Service Management System is a comprehensive web project that streamlines and enhances the efficiency of courier operations. With its user-friendly interface and robust features, it enables seamless tracking of parcels, automated scheduling and dispatching of deliveries, and effective management of customer information. The system's integration with GPS technology ensures real-time tracking and timely delivery updates, ultimately improving customer satisfaction. Overall, the Courier Service Management System proves to be a valuable tool for courier companies, optimizing their processes and enhancing their service quality.

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