

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



Internship Report

on

“COURIER MANAGEMENT SYSTEM”

**A report submitted in partial fulfillment of the requirements for the award a
degree of**

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

HARSHITHA N P

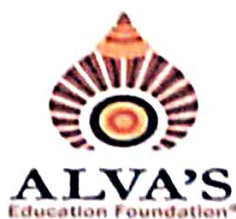
4AL20CS046

Under Supervision of

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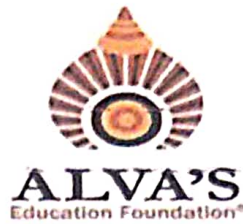


**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA**

2023 – 2024

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

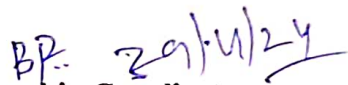
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
CERTIFICATE

This is to certify that the Internship report on **"COURIER MANAGEMENT SYSTEM"** submitted by **HARSHITHA N P(4AL20CS046)** is work done by him and submitted during the academic year 2023–24, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF ENGINEERING in COMPUTER SCIENCE AND ENGINEERING**


Internship Mentor
Department of CSE


Internship Coordinator
Department of CSE


Head of the Department
Department of CSE

Examiners

Name

Signature

1)

2)

Acknowledgement

First I would like to thank QSpiders for giving me the opportunity to do an internship within the organization.

I also would like all the people that worked along with me in QSpiders with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I am highly indebted to Managing Trustee **Mr. Vivek Alva** and Principal **Dr. Peter Fernandes**, Alva's Institute of Engineering and Technology, Mijar for the facilities provided to accomplish this internship.

I would like to thank my Head of the Department **Dr. Manjunath Kotari**, Professor, Department of Computer Science and Engineering for his constructive criticism throughout my internship.

I would like to thank my internship Coordinator **Dr. Bramha Prakash H P**, Associate Professor, Department of Computer Science and Engineering for his guidance throughout my internship.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

HARSHITHA N P
4AL20CS046



CERTIFICATE OF INTERNSHIP



Gamcat

10¹SECONDS



AERODYNAMICS
an agency



PROUDLY PRESENTED TO:

HARSHITHA N P

For the successful completion of 45 days of Internship Program on the topic "Java/Python Full Stack Development, Data Structures & Algorithms, Artificial Intelligence & Machine Learning, Aptitude and Soft Skill Training" conducted by Training & Assessment Partners and IIT Allahabad during March/April and August 2023.

Head - Training and
Placements

Head of the
Department

Principal

Alva's Institute of Engineering & Technology, Moodbidri
(Accredited by NAAC with A+ and NUA New Delhi (CSE & ECE))
<https://alvt.org.in>

ABSTRACT

QSpiders is a best-in-class learning solutions organization headquartered in India's IT capital, Bangalore. It offers a wide range of courses in the area of software testing and are official partners of the ISTQB. A "finishing school" in many ways, the institute provides young job aspirants the perfect launch-pad to build a rewarding career in the growing IT sector. From its humble beginnings, QSpiders has exponentially grown to be the world's largest software testing training organization spread across countries. At QSpiders, It ensure training is imparted by specialists with proven subject matter expertise and who have spent over a decade in their area of specialization. Its faculty are highly competent, skilled and dedicated to giving their best towards the professional development of students. Besides training, It also provide placement assistance to our students and most of the big corporates in the corporate world hire our trained talent. It is indeed our pleasure to have placed over thousands of job-seekers in various IT firms across India over the years with an aim to place thousands more! Building competency into over 5000 students a month, QSpiders is where talent meets opportunity and we believe your search for the dream job or the dream professional ends here.

DAILY LOGS

DAY	DATE	TOPICS COVERED
Day 1-Day10	15/11/2022 – 25/11/2022	Core Java
Day 11-Day 16	01/09/2023 – 05/09/2023	HTML, CSS, JavaScript
Day 17-Day 20	06/09/2023 – 09/09/2023	Servlet, JDBC and Frameworks
Day 21-Day 25	10/09/2023 – 15/09/2023	Core Java
Day 26- Day 32	08/10/2023 – 14/10/2023	Hibernate, Spring Boot, Spring MVC
Day 33-Day 45	15/10/2023 – 28/10/2023	MySQL

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INTERNSHIP OBJECTIVES

The main objective of this internship is to learn both backend and frontend technologies so that workers can work in any field of software development. To maximize the quality of work in the field of software development. It has been provided to impart practical problem-solving skills which in turn will enhance prospects of career growth.

CHAPTER 1

INTRODUCTION

QSpiders is the world's ace software training organization with an aim to bridge the gap between the demands of the industry and the curriculum of educational institutions. With centers across the Globe, the institute is a platform where young minds are given the opportunity to build successful careers. The company vision is to build an employee fit for agile workspace and provides more software related course which will help us to enlightening our carrier. The company is mainly focusing on Software Development, Software Testing, Core Java and Selenium, API Testing, Java Full Stack Development etc. The company will provide the sufficient training which will be helpful to crack the interview offered by other companies. It also provides placement opportunities for both graduates as well as students in different MNC's. QSpiders, JSpiders and PySpiders hold the record of supplying the highest number of industry-ready technical resources. They can supply over 3500 technical resources at any time to meet the industry's demand.



Fig-1.1 Logo of QSpiders

CONTACT DETAILS:

Websites: <https://www.qspiders.com/>

Headquarters:

Bangalore

Year Founded:

2003

Chapter 2

ANALYSIS & REQUIREMENT SPECIFICATION

2.1 Purpose

The Courier Management System serves as a comprehensive platform designed to streamline and optimize the processes involved in handling courier services. It facilitates efficient management of incoming and outgoing shipments, tracking deliveries in real-time, managing inventory, scheduling pickups and deliveries, generating reports, and ensuring seamless communication between stakeholders such as customers, couriers, and administrators. By centralizing these operations into a unified system, it enhances transparency, accuracy, and accountability in the courier service, ultimately leading to improved customer satisfaction and operational efficiency for courier companies.

2.2 Scope

The scope of the project is managing a consistency and storage of data by and dedicated data administrator.1. It provides most of the features that a Database Management System should have. It is developed by using MySQL database. It has been implemented in WINDOWS platform.

2.3 Functional Requirements:

Three modules are used in this project namely Admin, user, planner Admin: can insert, analyse the table's User: can register their and information Planner: can plan the wedding.

2.4 Non Functional Requirements:

Hardware specification

Processor	: i5 Core Processor
Clock speed	: 2.5GHz
Monitor	: 1024 * 768 Resolution Color

Chapter 3

DESIGN OF THE PROJECT

This project has been developed using MySQL software which is queries oriented. Changes at the queries and the way in which it uses a system state may cause anticipated changes in the behaviour of other result.

3.1 ER-Diagram:

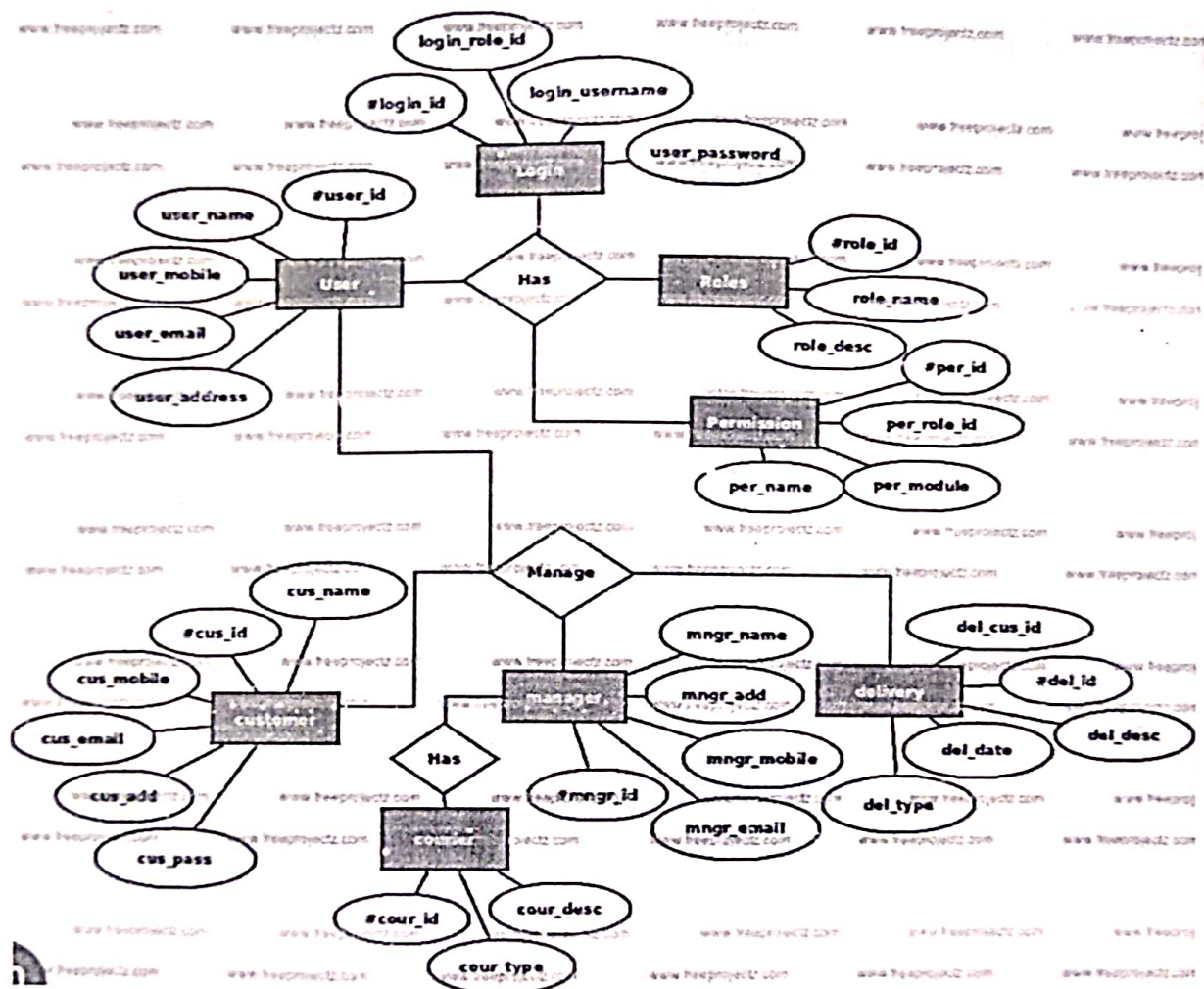


Fig 3.1 E R Diagram

The image is an Entity-Relationship (ER) diagram for a membership management system. An ER diagram is a type of flowchart that illustrates how data is organized in a database. It visually represents the entities (e.g., customers, orders), the attributes of those entities (e.g., customer name, order date), and the relationships between those entities (e.g., a customer can place many orders).

Chapter 4

IMPLEMENTATION

The project is implemented using MySQL database along with PHP and HTML. In this project, we use the below mentioned concepts for implementing different type of effects like HTML pages to demonstrate on a web page as a stand-alone or web based application.

4.1 Implementation of Table Creation page:

```
CREATE TABLE `branches` (  
  `id` int(30) NOT NULL,  
  `branch_code` varchar(50) NOT NULL,  
  `street` text NOT NULL,  
  `city` text NOT NULL,  
  `state` text NOT NULL,  
  `zip_code` varchar(50) NOT NULL,  
  `country` text NOT NULL,  
  `contact` varchar(100) NOT NULL,  
  `date_created` datetime NOT NULL DEFAULT current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

The tables created are

- Login
- User
- Role
- Permission
- Customer
- Manager
- Delivery
- Courier

4.1 SOURCE CODE

```
CREATE TABLE `parcels` (  
  `id` int(30) NOT NULL,  
  `reference_number` varchar(100) NOT NULL,  
  `sender_name` text NOT NULL,  
  `sender_address` text NOT NULL,  
  `sender_contact` text NOT NULL,  
  `recipient_name` text NOT NULL,
```



```
`recipient_address` text NOT NULL,  
`recipient_contact` text NOT NULL,  
`type` int(1) NOT NULL COMMENT '1 = Deliver, 2=Pickup',  
`from_branch_id` varchar(30) NOT NULL,  
  
`to_branch_id` varchar(30) NOT NULL,  
`weight` varchar(100) NOT NULL,  
`height` varchar(100) NOT NULL,  
`width` varchar(100) NOT NULL,  
`length` varchar(100) NOT NULL,  
`price` float NOT NULL,  
`status` int(2) NOT NULL DEFAULT 0,  
`date_created` datetime NOT NULL DEFAULT current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
CREATE TABLE `parcel_tracks` (  
  `id` int(30) NOT NULL,  
  `parcel_id` int(30) NOT NULL,  
  `status` int(2) NOT NULL,  
  `date_created` datetime NOT NULL DEFAULT current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
CREATE TABLE `system_settings` (  
  `id` int(30) NOT NULL,  
  `name` text NOT NULL,  
  `email` varchar(200) NOT NULL,  
  `contact` varchar(20) NOT NULL,  
  `address` text NOT NULL,  
  `cover_img` text NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

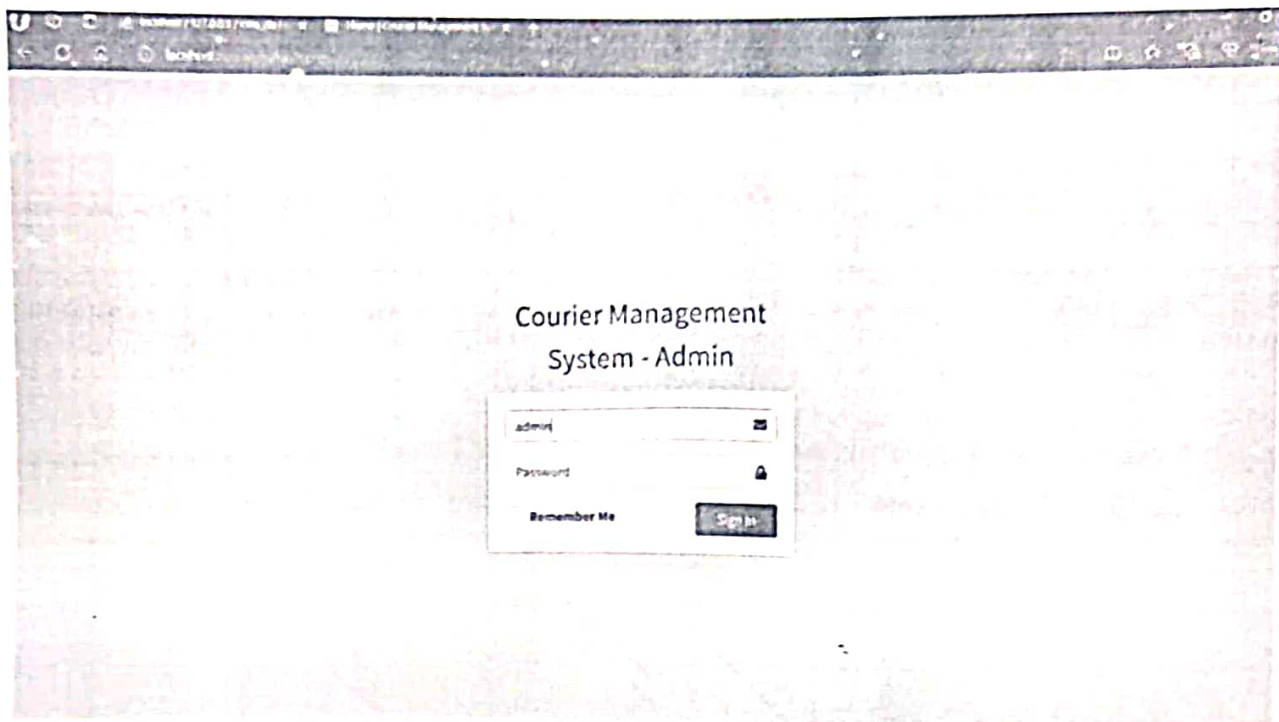
```
ALTER TABLE `branches`
```

```
ADD PRIMARY KEY ('id');
ALTER TABLE `parcels`
ADD PRIMARY KEY ('id');

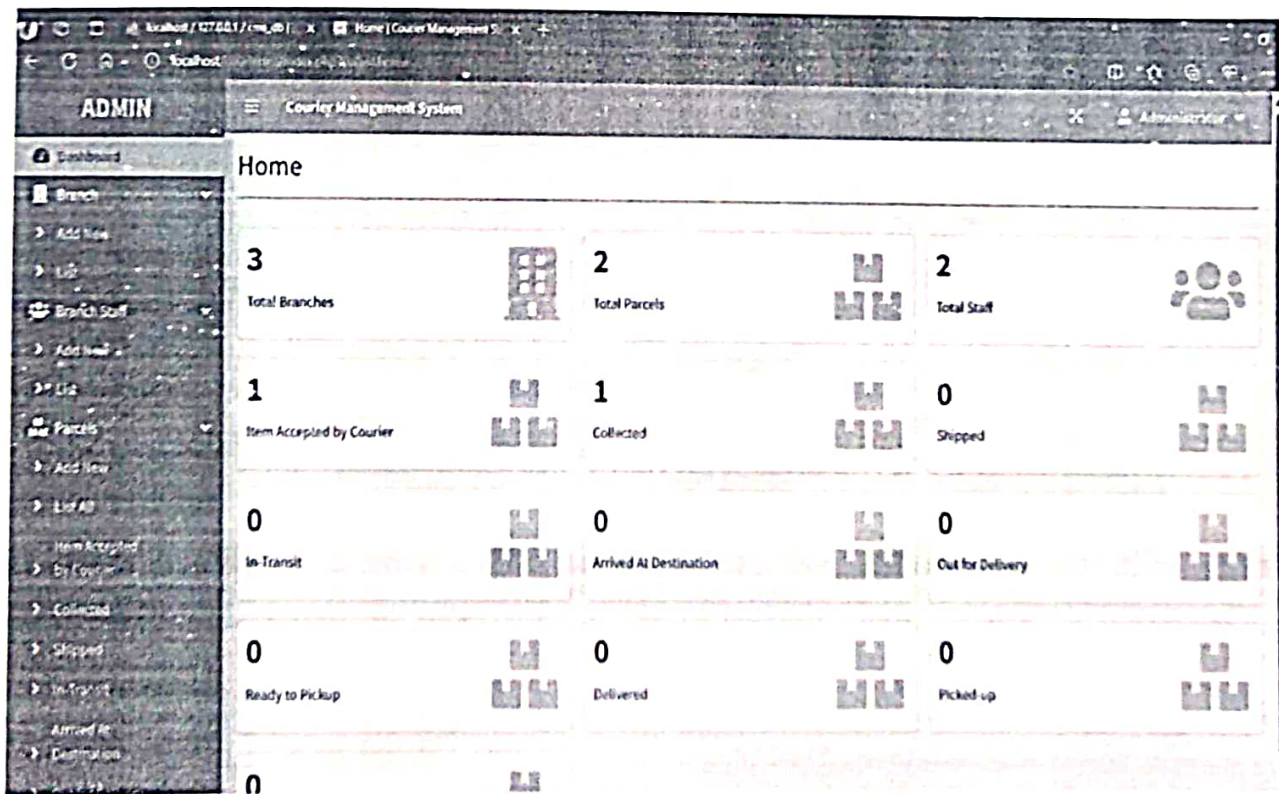
ALTER TABLE `parcel_tracks`
ADD PRIMARY KEY ('id');
ALTER TABLE `system_settings`
ADD PRIMARY KEY ('id');
ALTER TABLE `users`
ADD PRIMARY KEY ('id');
ALTER TABLE `branches`
MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
ALTER TABLE `parcels`
MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
ALTER TABLE `parcel_tracks`
MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=11;
ALTER TABLE `system_settings`
MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
ALTER TABLE `users`
MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
COMMIT;
```

Chapter 5

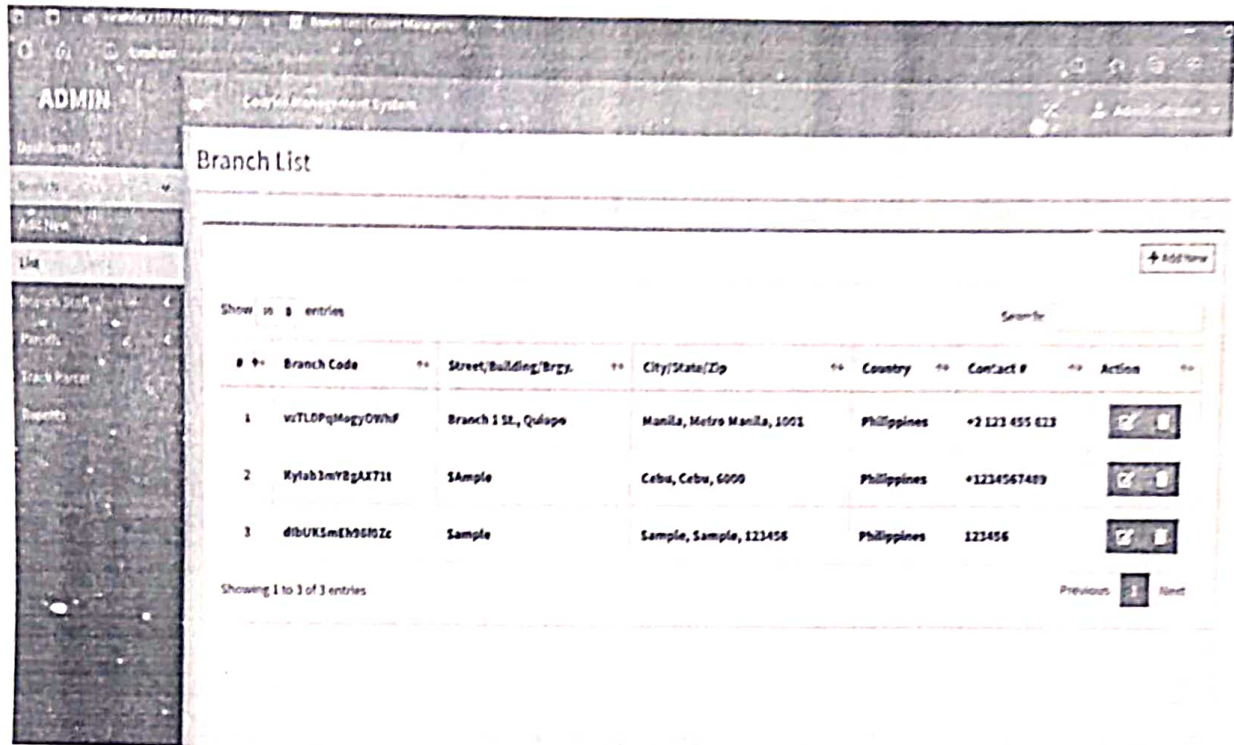
SNAPSHOTS



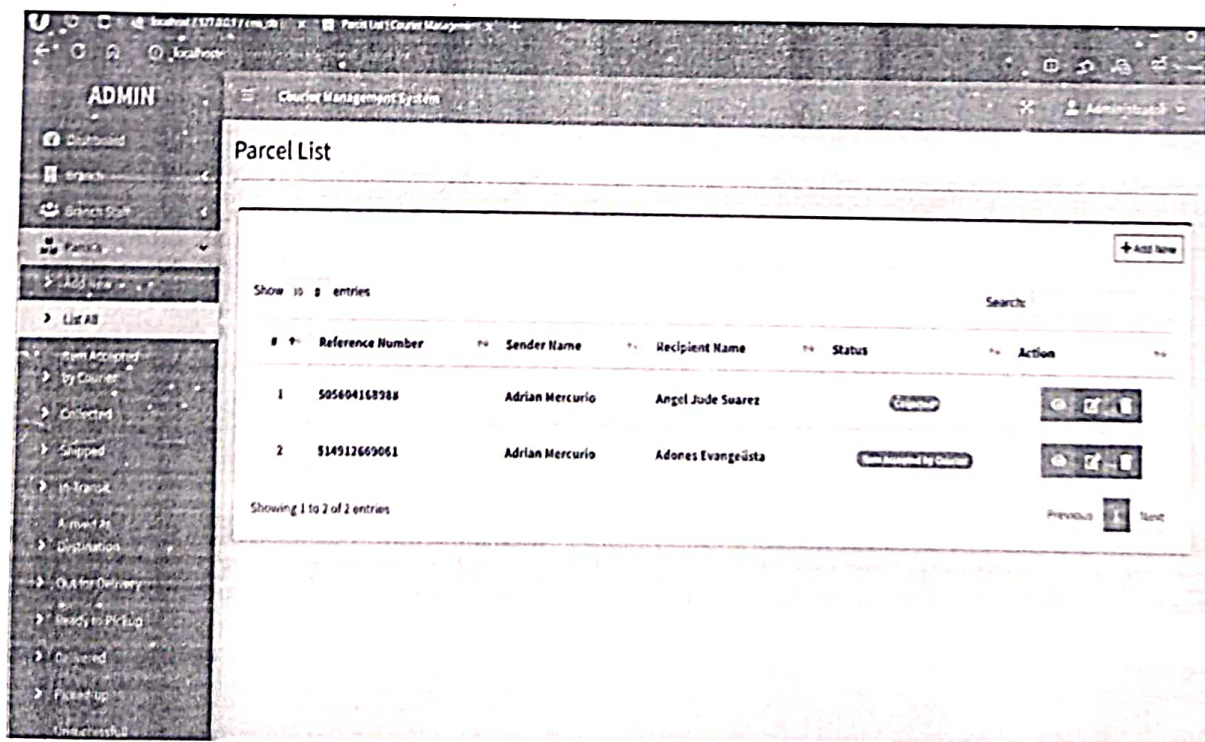
5.1 Admin page



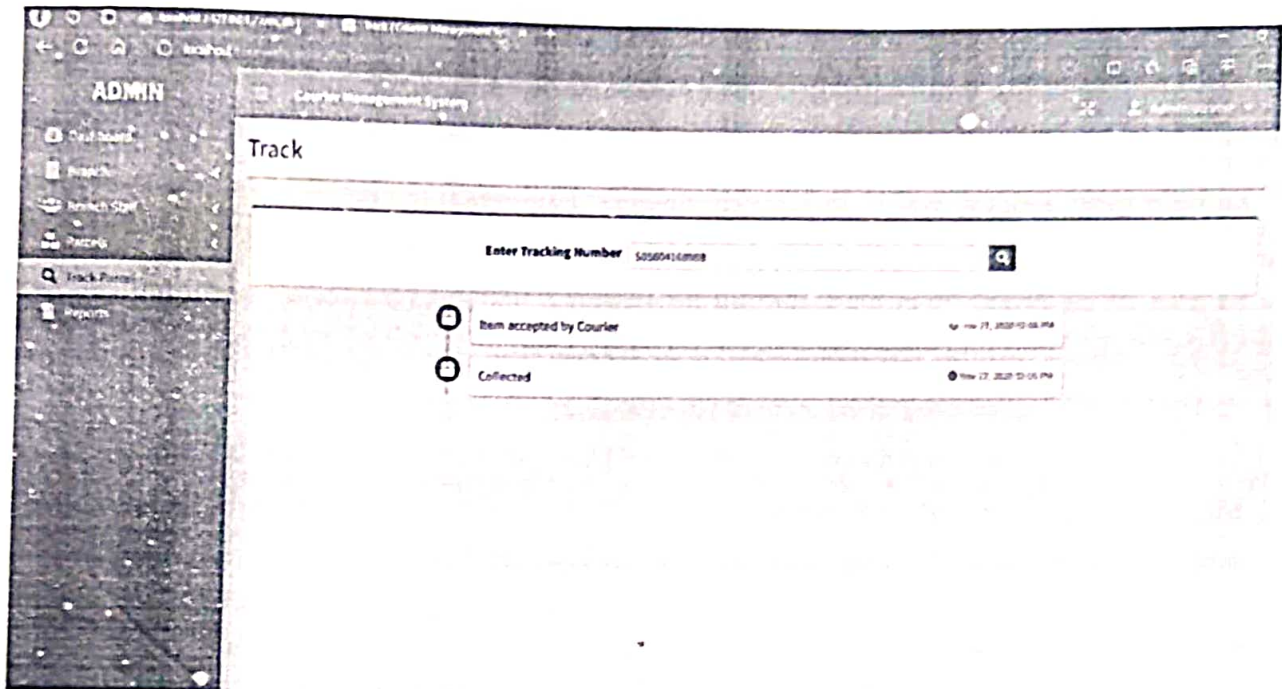
5.2 Home page of admin



5.3 Branch list Page



5.4 Parcel list page



5.5 Track details

CHAPTER 6

INTERNSHIP BENEFITS

After Completing 90 days of internship in QSpiders Bangalore , I have got idea about different java frameworks, technologies in various IT field for real time application development. This internship help us to overcome the gap between the industrial needs. In these 30 days of internship I learnt lot of java technologies and frameworks like Maven Project, JDBC, Hibernate, Spring Boot, Spring MVC etc. It help me to learn basic knowledge of HTML, CSS, JavaScript and Database like MySQL and Oracle. Provides much knowledge about real time application development using software development practices. Learned to debugging the code to fix the error. Able to work with team and learned how to be a part of team during work.Learnt both frontend and backend technologies for efficient application development.

Chapter 7

CONCLUSION AND FUTURE ENHANCEMENT

CONCLUSION

In this project the development of a Courier Management System presents a significant advancement in streamlining the logistics and delivery processes. By digitizing and centralizing operations, the system facilitates efficient tracking, monitoring, and management of courier services. It enhances transparency, accuracy, and accountability in delivery operations, leading to improved customer satisfaction and trust.

FUTURE ENHANCEMENT

In this, the Courier Management System offers ample opportunities for future enhancements and expansions. Integration with emerging technologies such as Internet of Things (IoT), Artificial Intelligence (AI), and blockchain can further optimize delivery routes, predict demand patterns, and enhance security. Additionally, incorporating mobile applications for real-time tracking and customer interaction can enhance user experience and accessibility. Furthermore, continuous feedback mechanisms and data analysis can drive continuous improvement and innovation in the system, ensuring its relevance and competitiveness in the dynamic logistics industry. As technology evolves and customer expectations evolve, the Courier Management System can adapt and evolve to meet the ever-changing demands of the market, making it a valuable asset for courier companies in the future.

REFERENCES

- [1] http://www.w3schools.com/howto/howto_css_login_form.asp
- [2] http://www.roseindia.com/css/css3_button.asp
- [3] <http://www.stackoverflow.com/tags/javascript/info>
- [4] <http://wikipedia.com/wiki/JSP>
- [5] Database Systems Models ,Languages, Design and Application Programming.