# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

## "Jnana Sangama", BELAGAVI – 590018

**A MINI PROJECT REPORT**

**ON**

## "RAFT COURIER MANAGEMENT"

Submitted in partial fulfillment of requirements for the *course*
**DBMS Laboratory with Mini Project [18CSL58]** *of Fifth Semester*
*of Bachelor of Engineering in Computer Science & Engineering*
*during the academic year 2021-22.*

**Submitted By**

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**MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE**

**Belawadi, S.R. Patna (T), Mandya (D) – 571477.**

**2021-22**

# MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



## CERTIFICATE

This is to certify that the mini project work entitled **"RAFT COURIER MANAGEMENT"** is a bonafide work carried out by **Kushi P kogilvadi [4MH19CS042]** and **Chandana C S [4MH19CS014]** in partial fulfillment for the **DBMS Laboratory with Mini Project (18CSL58)** prescribed by the Visvesvaraya Technological University, Belagavi during the year 2021-2022 for the fifth semester B.E in Computer Science and Engineering. The mini project report has been approved as it satisfies the academic requirements.

| Signature of Guide | Signature of HOD |
|---|---|
| (**Prof. Santosh E**) | (**Dr. Shivamurthy R C**) |
| Assistant Professor, Dept. of CS&E | Professor & Head, Dept. of CS&E |
| MIT Mysore | MIT Mysore |

| Name of the Examiners | Signature with date |
|---|---|
| 1..................................... | …............................... |
| 2..................................... | …............................... |

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<div align="right">

**Kushi P Kogilvadi (4MH19CS042)**

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</div>

# ABSTRACT

This **Courier Management System** Project will have different modules. The login section will have login facility for the admin who will operate this system.

While taking orders from its customers, it will take the details of its customers who is placing the orders and the details for the recipient such as its address will be taken. Through the tracking id, customers or its recipient will be able to track their products from any location using internet. It will provide status of the product after placing orders within 1 minute.

The admin can manipulate the data through admin login page and add any new consignment if required. The profile section shows the data of the user, the staff, the complaints and the total number of orders

Using this courier service, a person can easily send their parcel to another person who is in some particular destination within the time

# ~~~~~ TABLE OF CONTENTS ~~~~~

## CHAPTER 1

# INTRODUCTION

## 1.1 Aim of the project

Aim of our project is to help people send and receive things easily through courier just by sitting at home through internet

## 1.2 Overview of the project

Overview of this project is that, it helps a person to deliver the things from a particular location to the required destination

First, if you are a user, it collects the information about you and the address to which the parcel you want to send and then where it has to be delivered.

Then, if you are an admin, it allows you to access the admin data by logging in with their specific username and password.

An admin can view the details regarding the courier details, staff details.

And the user can also track their parcel after giving the proper address to where it has to be delivered using their unique tracking id

## 1.3 Outcome of the project

A normal working courier managing website, which is ready to use and accessed by the admin and the users
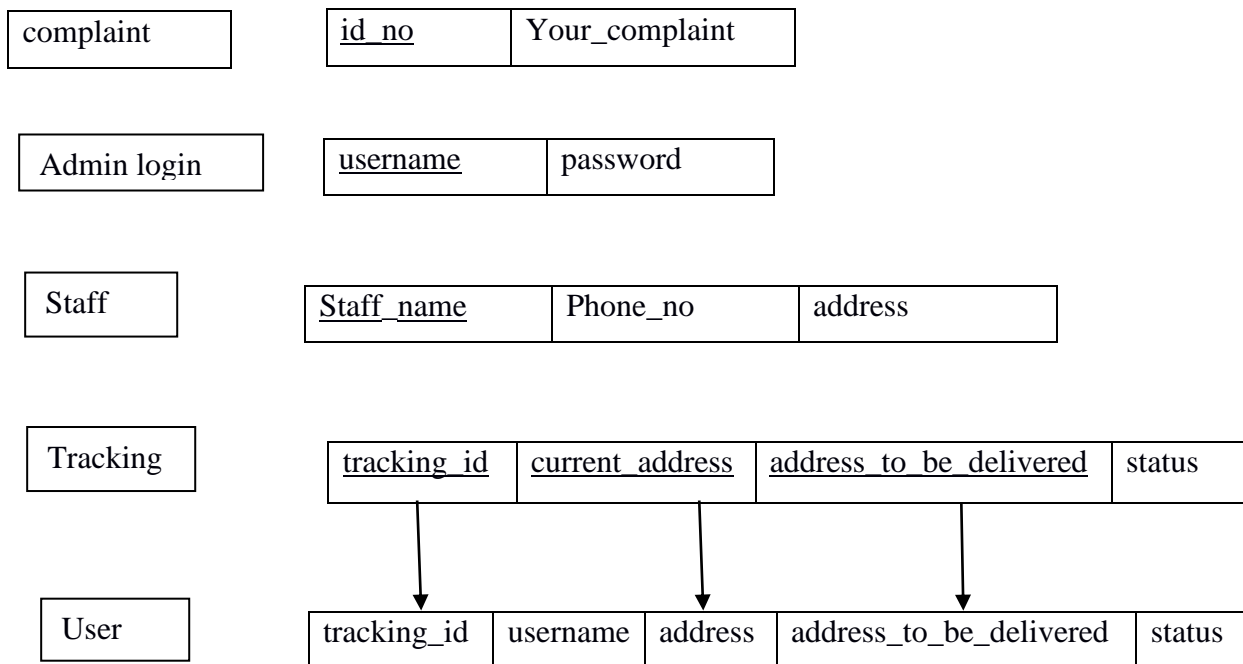
## 1.4 Software requirements

- ❖ Apache Server 2.0
- ❖ PHP Version 5.3 or above
- ❖ MySQL Version 5.5 or above
- ❖ Latest browser: Chrome
- ❖ Operating System: Windows
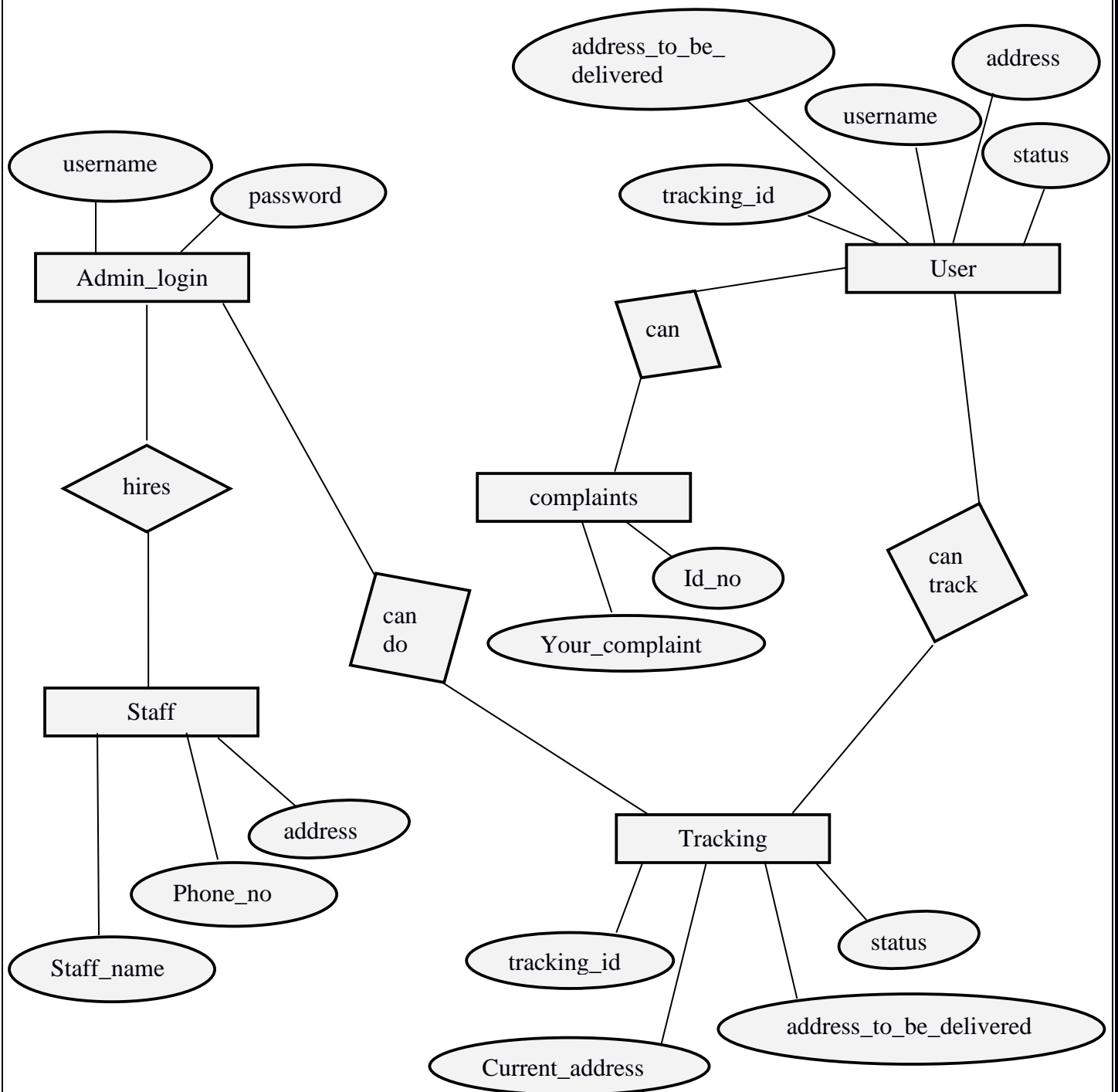- ❖ HTML
- ❖ Visual Studio Code

## CHAPTER 2

# DESIGN

## 2.1 Schema Diagram

| complaint | | id_no | Your_complaint |
|---|---|---|---|

| Admin login | | username | password |
|---|---|---|---|

| Staff | | Staff_name | Phone_no | address |
|---|---|---|---|---|

| Tracking | | tracking_id | current_address | address_to_be_delivered | status |
|---|---|---|---|---|---|

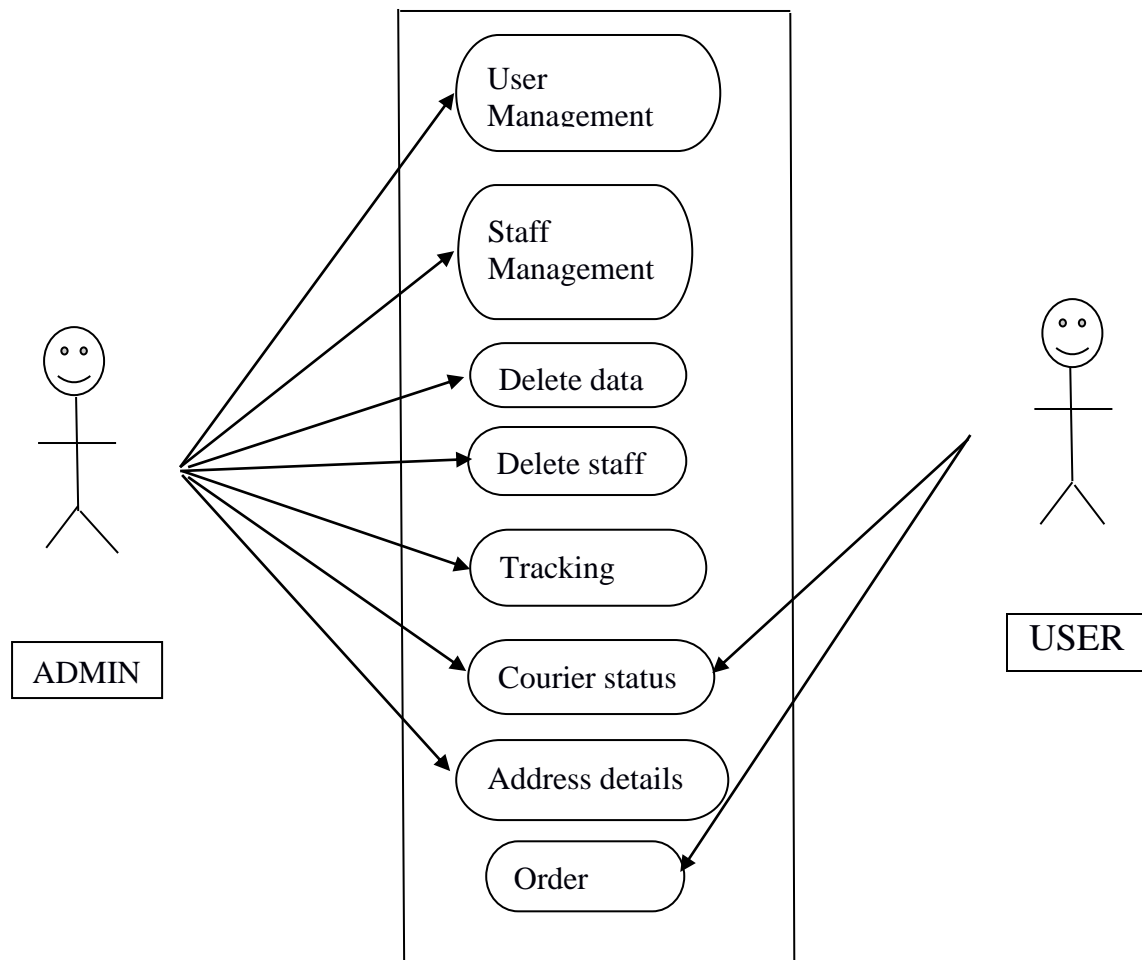| User | | tracking_id | username | address | address_to_be_delivered | status |
|---|---|---|---|---|---|---|

## 2.2 E – R Diagram

## 2.3 Use Case Diagram



Fig:2.3.1 Use Case Diagram
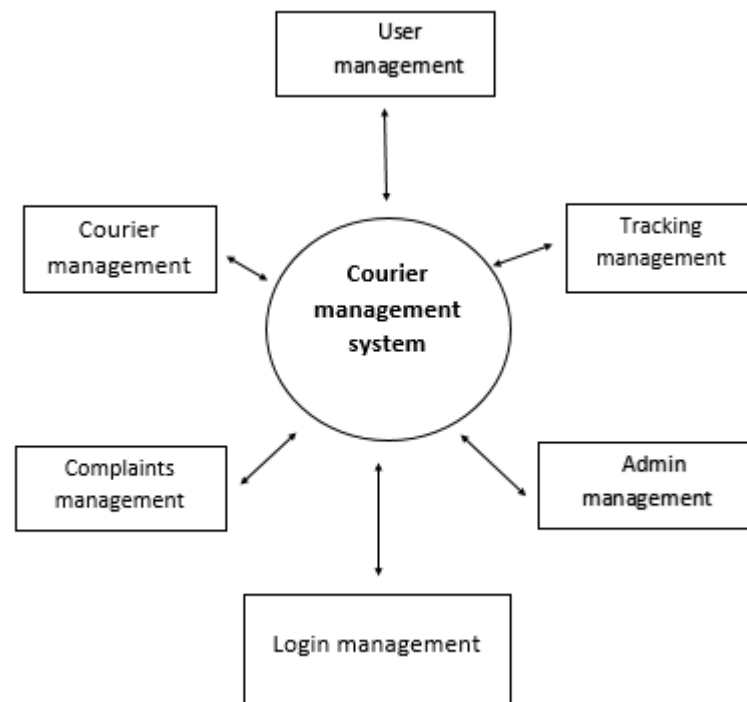
## 2.4 Data Flow Diagram

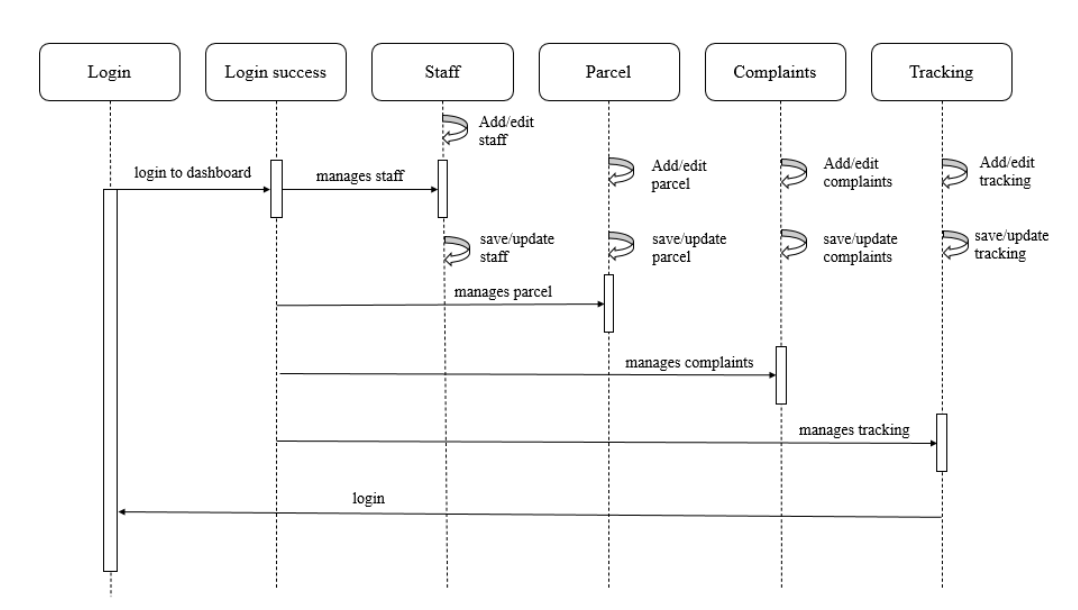

Fig: 2.4.1 Data Flow Diagram

## 2.5 Sequence Diagram



Fig: 2.5.1 Sequence Diagram

# CHAPTER 03

## IMPLIMENTATION

## 3.1 Description of tables

### 3.1.1 – login

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action | | |
|---|------|------|-----------|------------|------|---------|----------|-------|--------|---|---|
| 1 | ID 🔑 | int(10) | | | No | None | | AUTO_INCREMENT | 🖉 Change | ⊖ Drop | ▼ More |
| 2 | username | varchar(30) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 3 | password | varchar(30) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |

### 3.1.2 - Staff

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action | | |
|---|------|------|-----------|------------|------|---------|----------|-------|--------|---|---|
| 1 | id 🔑 | int(11) | | | No | None | | AUTO_INCREMENT | 🖉 Change | ⊖ Drop | ▼ More |
| 2 | staff_name | varchar(50) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 3 | phone_no | int(10) | | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 4 | address | varchar(50) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |

### 3.1.3 – Complaints

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action | | |
|---|------|------|-----------|------------|------|---------|----------|-------|--------|---|---|
| 1 | id 🔑 | int(50) | | | No | None | | AUTO_INCREMENT | 🖉 Change | ⊖ Drop | ▼ More |
| 2 | ID_no | int(50) | | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 3 | Your_Complaint | varchar(600) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |

### 3.1.4 – Tracking

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action | | |
|---|------|------|-----------|------------|------|---------|----------|-------|--------|---|---|
| 1 | tracking_id | int(50) | | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 2 | current_address | varchar(500) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 3 | address_to_be_delivered | varchar(600) | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |
| 4 | status | text | utf8mb4_general_ci | | No | None | | | 🖉 Change | ⊖ Drop | ▼ More |

## 3.1.5 – User

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|------|------|-----------|-----------|------|---------|----------|-------|--------|
| 1 | tracking_id 🔑 | int(50) | | | No | None | | AUTO_INCREMENT | 🖉 Change ⊖ Drop ▽ More |
| 2 | username | varchar(50) | utf8mb4_general_ci | | No | None | | | 🖉 Change ⊖ Drop ▽ More |
| 3 | address | varchar(600) | utf8mb4_general_ci | | No | None | | | 🖉 Change ⊖ Drop ▽ More |
| 4 | address_to_be_delivered | varchar(500) | utf8mb4_general_ci | | No | None | | | 🖉 Change ⊖ Drop ▽ More |
| 5 | status | varchar(20) | utf8mb4_general_ci | | No | None | | | 🖉 Change ⊖ Drop ▽ More |

## 3.2 Constraints on Tables

- In table complaint, ID_no is a primary key.

- In table login, id, ID is the primary key.

- In table staff, id is a primary key

- In table tracking, current_address, address_to_be_delivered, status are the

   foreign keys.

- In table user, tracking_id, current_address, address_to_be_delivered, status are

   the primary keys

## 3.3 Back End Implementation

```
-- phpMyAdmin SQL Dump
-- version 5.1.1
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Feb 11, 2022 at 10:50 AM
-- Server version: 10.4.22-MariaDB
-- PHP Version: 8.1.1

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT
*/;
/*!40101 SET
@OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
*/;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `courier`
--

-- --------------------------------------------------------

--
-- Table structure for table `complaint`
--

CREATE TABLE `complaint` (
  `id` int(50) NOT NULL,
  `ID_no` int(50) NOT NULL,
  `Your_Complaint` varchar(600) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `complaint`
--

INSERT INTO `complaint` (`id`, `ID_no`, `Your_Complaint`)
VALUES
(1, 42, 'the package was broken'),
(3, 14, 'was damaged'),
(4, 33, 'not satisfied with the management of originality of
the parcel'),
(5, 26, 'damaged parcel delivered'),
(6, 66, 'not satisfied'),
(7, 5566, 'ghghgcvg');
```

```sql
-- ---------------------------------------------------------

--
-- Table structure for table `login`
--

CREATE TABLE `login` (
  `ID` int(10) NOT NULL,
  `username` varchar(30) NOT NULL,
  `password` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `login`
--

INSERT INTO `login` (`ID`, `username`, `password`) VALUES
(1, 'admin', 'admin');

-- ---------------------------------------------------------

--
-- Table structure for table `staff`
--

CREATE TABLE `staff` (
  `id` int(11) NOT NULL,
  `staff_name` varchar(50) NOT NULL,
  `phone_no` int(10) NOT NULL,
  `address` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `staff`
--

INSERT INTO `staff` (`id`, `staff_name`, `phone_no`,
`address`) VALUES
(3, 'Kushi ', 2147483647, 'JShuaygefuiyqgweifuyg'),
(4, 'meghs', 222225555, 'jkasjidxhjshkj'),
(6, 'dhanush', 5588224, 'mjshdud'),
(8, 'guna', 25554441, 'amjhdjhs'),
(10, 'Kushi ', 5588224, 'mjshdud'),
(11, 'shashi', 5585, 'kajhduyguydf'),
(13, 'jud', 554112, 'jnhv'),
(14, 'niveda', 2147483647, 'vijayanagar 4th stage');

-- ---------------------------------------------------------

--
-- Table structure for table `tracking`
--

CREATE TABLE `tracking` (
  `tracking_id` int(50) NOT NULL,
  `current_address` varchar(500) NOT NULL,
```

```sql
    `address_to_be_delivered` varchar(600) NOT NULL,
    `status` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `tracking`
--

INSERT INTO `tracking` (`tracking_id`, `current_address`,
`address_to_be_delivered`, `status`) VALUES
(255, 'jkhgguytft', 'nbyutfytrd', 'not delivered\r\n'),
(55, 'jbiuydgxsytgd', 'iuguyfdvuy', 'dispatched');

-- --------------------------------------------------------

--
-- Table structure for table `user`
--

CREATE TABLE `user` (
  `tracking_id` int(50) NOT NULL,
  `username` varchar(50) NOT NULL,
  `address` varchar(600) NOT NULL,
  `address_to_be_delivered` varchar(500) NOT NULL,
  `status` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `user`
--

INSERT INTO `user` (`tracking_id`, `username`, `address`,
`address_to_be_delivered`, `status`) VALUES
(3, 'arjun', 'smjcbjhdgc', 'sjhcuyegdcy', ''),
(4, 'arjun', 'smjcbjhdgc', 'sjhcuyegdcy', ''),
(5, 'harsha ', 'jgytfg', 'hhggrded', '');

--
-- Indexes for dumped tables
--


--
-- Indexes for table `complaint`
--
ALTER TABLE `complaint`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `login`
--
ALTER TABLE `login`
  ADD PRIMARY KEY (`ID`);

--
-- Indexes for table `staff`
--
```

```sql
ALTER TABLE `staff`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `user`
--
ALTER TABLE `user`
  ADD PRIMARY KEY (`tracking_id`);

--
-- AUTO_INCREMENT for dumped tables
--


--
-- AUTO_INCREMENT for table `complaint`
--
ALTER TABLE `complaint`
  MODIFY `id` int(50) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=8;

--
-- AUTO_INCREMENT for table `login`
--
ALTER TABLE `login`
  MODIFY `ID` int(10) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=2;

--
-- AUTO_INCREMENT for table `staff`
--
ALTER TABLE `staff`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=16;

--
-- AUTO_INCREMENT for table `user`
--
ALTER TABLE `user`
  MODIFY `tracking_id` int(50) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=6;
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT
*/;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS
*/;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION
*/;
```

## 3.3 Front end Implementation

## LOGIN

```php
<?php
//Get values passe from form in login. php file
$username = $_POST['user' ];
$password = $_POST['pass'];

// to prevent mysql injection
$username = stripcslashes ($username);
$password = stripcslashes ($password);


session_start();

$_SESSION['varname'] = $username;

if ($username == "admin" && $password="admin") {
     header("Location:http://localhost/DBMS/admin%20login/admin.php");
}
else {

$db = mysqli_connect("localhost", "root", "","sports");


$result = mysqli_query($db,"select * from login where username = '$username' and
password = '$password'")
     or die("Failed to query database ");
$row = mysqli_fetch_array($result);
if ($row['username']==$username && $row['password']==$password)
{
echo "Login success!!! Welcome ". $row['username'];
header("Location:http://localhost/DBMS/admin%20login/admin.php");
}
}
?>
```

## CREATE ORDER

```php
<?php
    $username = $_POST['username'];
    $address= $_POST['address'];
    $address_to_be_delivered = $_POST['address_to_be_delivered'];


    $conn = new mysqli('localhost','root','','courier');
    if($conn->connect_error){
        echo "$conn->connect_error";
        die("Connection Failed : ". $conn->connect_error);
    } else {
        $stmt = $conn->prepare("insert into user
(username,address,address_to_be_delivered ) values(?, ?, ?)");
        $stmt->bind_param("sss", $username, $address,
$address_to_be_delivered );
        $execval = $stmt->execute();
        echo $execval;
        echo "order sussccefully placed";
        $stmt->close();
        $conn->close();
    }
?>
```

## CREATE STAFF

```php
<?php
    $name = $_POST['name'];
    $phno = $_POST['phno'];
    $address = $_POST['address'];


    $conn = new mysqli('localhost','root','','courier');
    if($conn->connect_error){
        echo "$conn->connect_error";
        die("Connection Failed : ". $conn->connect_error);
    } else {
        $stmt = $conn->prepare("insert into staff (staff_name,phone_no,address)
values(?, ?, ?)");
        $stmt->bind_param("sis", $name, $phno, $address);
        $execval = $stmt->execute();
        echo $execval;
        echo "Registration successfully...";
        $stmt->close();
        $conn->close();
    }
?>
```

## DELETE STAFF

```php
<?php

include("database.php");
if(isset($_GET['delete'])){

   $id= $_GET['delete'];
 delete_data($connection, $id);

}

// delete data query
function delete_data($connection, $id){

   $query="DELETE from staff WHERE id=$id";
   $exec= mysqli_query($connection,$query);

   if($exec){
    header('location:user-table.php');
   }else{
     $msg= "Error: " . $query . "<br>" . mysqli_error($connection);
    echo $msg;
   }
}
?>
```

## READ STAFF

```php
<?php

include('database.php');

$fetchData= fetch_data($connection);

// fetch query
function fetch_data($connection){
 $query="SELECT * from staff ORDER BY id DESC";
 $exec=mysqli_query($connection, $query);
 if(mysqli_num_rows($exec)>0){

  $row= mysqli_fetch_all($exec, MYSQLI_ASSOC);
  return $row;

 }else{
  return $row=[];
 }
}
?>
```

### UPDATE STAFF

```php
<?php

include('database.php');


if(isset($_GET['edit'])){

   $id= $_GET['edit'];
  $editData= edit_data($connection, $id);
}

if(isset($_POST['update']) && isset($_GET['edit'])){

  $id= $_GET['edit'];
   update_data($connection,$id);



}
function edit_data($connection, $id)
{
 $query= "SELECT * FROM staff WHERE id= $id";
 $exec = mysqli_query($connection, $query);
 $row= mysqli_fetch_assoc($exec);
 return $row;
}


function update_data($connection, $id){

   $staff_name= legal_input($_POST['staff_name']);
    $phone_no= legal_input($_POST['phone_no']);
    $address = legal_input($_POST['address']);

   $query="UPDATE staff
       SET staff_name='$staff_name',
          phone_no='$phone_no',
          address= '$address' WHERE id=$id";

   $exec= mysqli_query($connection,$query);

   if($exec){
     header('location:user-table.php');

   }else{
     $msg= "Error: " . $query . "<br>" . mysqli_error($connection);
     echo $msg;
   }
}
```

```php
function legal_input($value) {
 $value = trim($value);
 $value = stripslashes($value);
 $value = htmlspecialchars($value);
 return $value;
}
?>
```

## ADD COMPLAINT

```php
<?php
        $number= $_POST['number'];
        $complaint = $_POST['complaint'];




        $conn = new mysqli('localhost','root','','courier');
        if($conn->connect_error){
                echo "$conn->connect_error";
                die("Connection Failed : ". $conn->connect_error);
        } else {
                $stmt = $conn->prepare("insert into complaint (ID_no,Your_Complaint)
values(?, ?)");
                $stmt->bind_param("is", $number,$complaint);
                $execval = $stmt->execute();
                echo $execval;
                echo "Registration successfully...";
                $stmt->close();
                $conn->close();
        }
?>
```
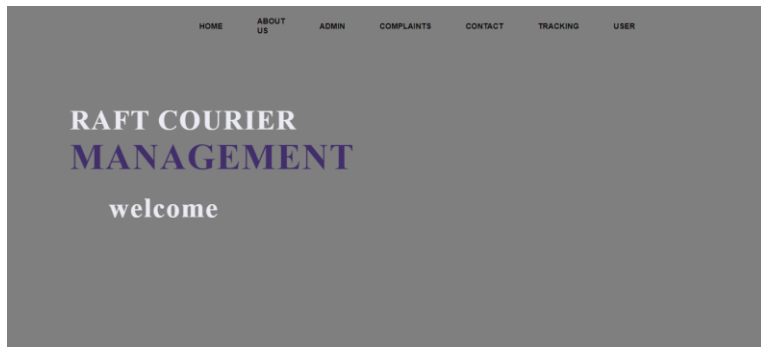
# CHAPTER 4

# RESULT ANALYSIS

## 4.1 Snap shots









### Staff Details

Staff_name :

enter the name

Phone_no :

enter the number

Address :

enter the address

Submit

### Manage Staff

| id | staff_name | phone_no | address | Edit | Delete |
|----|-----------|----------|---------|------|--------|
| 1 | niveda | 2147483647 | vijayanagar 4th stage | Edit | Delete |
| 2 | jud | 554112 | jnhv | Edit | Delete |
| 3 | shashi | 5585 | kajhduyguydf | Edit | Delete |
| 4 | Kushi | 5588224 | mjshdud | Edit | Delete |
| 5 | guna | 25554441 | amjhdjhs | Edit | Delete |
| 6 | dhanush | 5588224 | mjshdud | Edit | Delete |
| 7 | meghs | 222225555 | jkasjidxhjshkj | Edit | Delete |
| 8 | Kushi | 2147483647 | JShuaygefuiyqgweifuyg | Edit | Delete |

**Complaints**

| id | your_complaint | Edit | Delete | |
|----|----------------|------|--------|---|
| 1 | 5566 | ghghgcvg | Edit | Delete |
| 2 | 66 | not satisfied | Edit | Delete |
| 3 | 26 | damaged parcel delivered | Edit | Delete |
| 4 | 33 | not satisfied with the management of originality of the parcel | Edit | Delete |
| 5 | 14 | was damaged | Edit | Delete |
| 6 | 42 | the package was broken | Edit | Delete |

tracking id

current address

status

address to be delivered

display   delete   search

**Order list**

| tracking_id | username | address | address_to_be_delivered | Edit | Delete |
|-------------|----------|---------|-------------------------|------|--------|
| 1 | harsha | jgytfg | hhggrded | Edit | Delete |
| 2 | arjun | smjcbjhdgc | sjhcuyegdcy | Edit | Delete |
| 3 | arjun | smjcbjhdgc | sjhcuyegdcy | Edit | Delete |

COURIER ORDER

Username:

enter your name

Address:

enter the address

Address To Be Delivered :

enter the address to be delivered

Submit

**COMPLAINTS !**

ID_no :

enter the number

Your Complaints :

enter your complaint

Submit

| tracking id | |
| --- | --- |
| username | |
| current address | |
| address to be delivered | |
| status | |

search

# ABOUT
# US

courier management

* we try our level best to give you better courier service
* we try to make your work easy by providing online tracking of your courier

# contact
# US @

PHONE NUMBER: 9448507625
BRANCH : Belawadi,Srirangapatna Taluk,Mandya - 571 477 Near Banglore-Mysore road

## 4.2 Discussion

- Home Page

Here the users can complaint, track, place an order, and the admin can open the admin tab to login

- Admin Login Page

Here if the visitor is an admin, then by using his login credentials he can login to Dashboard page.

- Dashboard Page

After authentication of Admin, he can perform CRUD OPERATIONS (create/update/view/delete) on modules such as Staff, Total courier, status of the courier, complaints registered by the users, and also the tracking

## 4.3 Testing

| Test Case ID | Test Case | Expected Output | Actual Output | Status |
|---|---|---|---|---|
| TC1 | Login with wrong username and wrong password | Invalid username or password | As expected, | Pass |
| TC2 | Login with correct username and wrong password | Invalid username or password | As expected, | Pass |
| TC3 | Login with wrong username and correct password | Invalid username or password | As expected, | Pass |
| TC4 | Login with correct username and correct password | Redirected to Dashboard page | As expected, | Pass |

Table 4.3.1 Test Cases

# CHAPTER 5

# CONCLUSION AND FUTURE WORK

**5.1 CONCLUSION:**

As client was facing difficulties while fetching the details of the dispatched parcels, parcel status. etc... But by using this proposed system,
client will be able to view the details of the courier, staff and complaints registered by the users.

**5.2 FUTURE ENHANCEMENT:**

In future, we are planning to take our website into higher level by giving more options to the users such as adding the image of the parcel that is being delivered, a separate account for particular users to track their parcel, to view their history etc..

# CHAPTER 6

## REFERENCES

❖    http://www.xamppserver.com/en/

❖    http://www.php.net/

❖    http://youtube.com/

❖    https//apache.org/docs/2.0/misc./tutorials.html