## INTRODUCTION

A database management system (DBMS) refers to the technology for creating and managing databases. Basically DBMS is a software tool to organize (create, retrieve, update and manage) data in a database.

The main aim of a DBMS is to supply a way to store up and retrieve database information that is both convenient and efficient. By data, we mean known facts that can be recorded and that have embedded meaning. Normally people use software such as DBASE IV or V, Microsoft ACCESS, or EXCEL to store data in the form of a database. Database systems are meant to handle large collections of information. Management of data involves both defining structures for storage of information and providing mechanisms that can do the manipulation of those stored information. Moreover, the database system must ensure the safety of the information stored, despite system crashes or attempts at unauthorized access.

This project aims at computerizing the manual process of the Courier Management System. Front end and backend are implemented using HTML, CSS, Php and SQL respectively. The project consists of two types of Application forms for Users and Managers (Admins). It consists of a home page, contact us, about us, login redirection pages, manager login, manager home page, user details, user login, registration for new user, user home page, new couriers and tracked couriers.

#### The Highlighted Features of the Project includes

- 1. In computer system of the courier service computation of the rate is easily and quickly done.
- **2.** Computer system of the courier service provides faster access.
- **3.** In the computer system the person has to fill various forms and number of copy of forms can be generated.
- **4.** Using this computerized system, bill issued procedures becomes fast.
- **5.** Better storage capacity and accuracy in work.
- **6.** Easy and fast retrieval of information.

# **Requirements Specifications**

## 2.1 Functional Requirements

- i) Registration of new customers. ii) Registration of new couriers iii) Tracking of couriers
- iv) Management of user details.

## 2.2 Non-Functional Requirements

**Operating System**: Windows 10

Database : SQL

**Development tools &** 

**Programming language**: HTML, CSS, PHP

**Processor** : INTEL CORE i5 8th Gen

Memory : 1 GB RAM

**Hard Disc**: Minimum 3 GB

## 2.3 Data Requirements

- **2.3.1** For Registration of New Customer (Create account):
- i) FirstName ii) LastName iii) Address iv) Email\_Id v) Phone number vi) Password
- **2.3.2** For Sign in:
- i) Email Id ii) Password
- **2.3.3** For forgot password:
- i) Email Id ii) New password iii) Confirm password

## **2.3.4** New Couriers:

i) User Name ii) Destination Address iii) E-mail iv) Phone number v) Courier contents vi) Weight of the courier

# 2.3.5 Tracking Couriers:

i) Courier Details ii) Receiver details iii) Tracking details

# 2.3.6 Manager Sign in:

i) User name ii) Password

## 2.3.7 User Details:

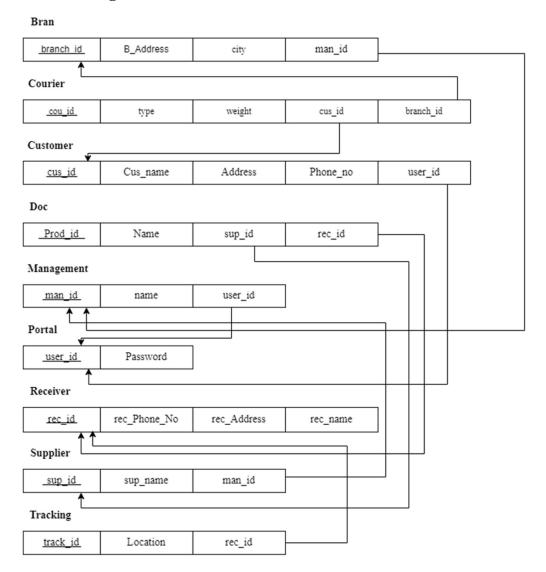
i)Customer ID ii)Customer Name iii)Customer Address iv)Phone number v)User ID

## 2.3.8 Contact Us:

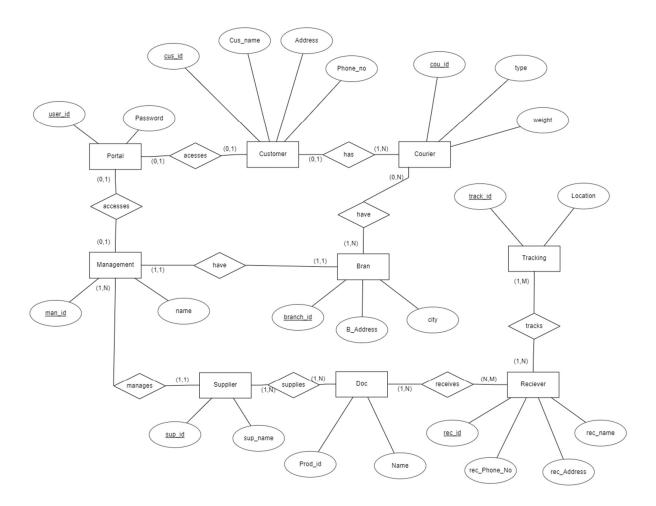
i) Branches ii) Phone number iii) E-mail iv) Address

# **DESIGN**

# 3.1 Schema diagram:



# 3.2 ER Diagram:



## **IMPLEMENTATION**

The project is implemented using SQL database along with PHP, CSS 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 Table Creation:

- 1. 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;
- 2. 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;
- 3. CREATE TABLE 'customer' ( 'cus\_id' int(11) NOT NULL, 'Cus\_Name' varchar(88) DEFAULT NULL, 'Address' varchar(88) DEFAULT NULL, 'Phone\_No' varchar(10) DEFAULT NULL, 'user\_id' int(11) DEFAULT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8;
- 4. 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;
- 5. 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;
- 6.CREATE TABLE 'portal' ('user\_id' int(11) NOT NULL, 'Password' varchar(88) DEFAULT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8;

- 7. 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;
- 8.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;
- 9.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;
- 10. ALTER TABLE 'bran' ADD PRIMARY KEY ('branch\_id'), ADD KEY 'address' ('B\_Address') USING BTREE, ADD KEY 'man\_id' ('man\_id');
- 11. ALTER TABLE 'courier' ADD PRIMARY KEY ('cou\_id'), ADD KEY 'type' ('type') USING BTREE, ADD KEY 'branch\_id' ('branch\_id'), ADD KEY 'courier\_ibfk\_1' ('cus\_id');
- 12. ALTER TABLE 'customer' ADD PRIMARY KEY ('cus\_id'), ADD KEY 'user\_name' ('user id'), ADD KEY 'Address' ('Address'), ADD KEY 'L Name' ('Cus Name');
- 13. ALTER TABLE 'doc' ADD PRIMARY KEY ('Prod\_id'), ADD KEY 'Name' ('Name') USING BTREE, ADD KEY 'sup id' ('sup id'), ADD KEY 'rec id' ('rec id');
- 14. ALTER TABLE 'management' ADD PRIMARY KEY ('man\_id'), ADD KEY 'name' ('name') USING BTREE, ADD KEY 'user\_name' ('user\_id');
- 15. ALTER TABLE 'portal' ADD PRIMARY KEY ('user\_id');
- 16. ALTER TABLE 'receiver' ADD PRIMARY KEY ('rec id');

Dept Of CSE 2021-22 Page 7

- 17. ALTER TABLE 'supplier' ADD PRIMARY KEY ('sup\_id'), ADD KEY 'sup\_name' ('sup\_name') USING BTREE, ADD KEY 'man\_id' ('man\_id');
- 18.ALTER TABLE 'tracking' ADD PRIMARY KEY ('track\_id'), ADD KEY 'Status' ('Location') USING BTREE, ADD KEY 'rec id' ('rec id');
- 19. ALTER TABLE 'bran' ADD CONSTRAINT 'bran\_ibfk\_1' FOREIGN KEY ('man\_id') REFERENCES 'management' ('man\_id') ON DELETE CASCADE ON UPDATE CASCADE;
- 20. ALTER TABLE `courier` ADD CONSTRAINT `courier\_ibfk\_1` FOREIGN KEY (`cus\_id`) REFERENCES `customer` (`cus\_id`) ON DELETE CASCADE ON UPDATE CASCADE, ADD CONSTRAINT `courier\_ibfk\_2` FOREIGN KEY (`branch\_id`) REFERENCES `bran` (`branch\_id`) ON DELETE CASCADE ON UPDATE CASCADE;
- 21. ALTER TABLE 'customer' ADD CONSTRAINT 'customer\_ibfk\_1' FOREIGN KEY ('user\_id') REFERENCES 'portal' ('user\_id') ON DELETE CASCADE ON UPDATE CASCADE;
- 22. ALTER TABLE 'doc' ADD CONSTRAINT 'doc\_ibfk\_1' FOREIGN KEY ('sup\_id')
  REFERENCES 'supplier' ('sup\_id') ON DELETE CASCADE ON UPDATE
  CASCADE, ADD CONSTRAINT 'doc\_ibfk\_2' FOREIGN KEY ('rec\_id')
  REFERENCES 'receiver' ('rec\_id') ON DELETE CASCADE ON UPDATE
  CASCADE;
- 23. ALTER TABLE 'management' ADD CONSTRAINT 'user\_name' FOREIGN KEY ('user\_id') REFERENCES 'portal' ('user\_id') ON DELETE CASCADE ON UPDATE CASCADE;
- 24. ALTER TABLE 'supplier' ADD CONSTRAINT 'supplier\_ibfk\_1' FOREIGN KEY ('man\_id') REFERENCES 'management' ('man\_id') ON DELETE CASCADE ON UPDATE CASCADE;

Dept Of CSE 2021-22 Page 8

# 4.2 Php code of index file (To view the home page, about us and contact us):

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">
  <title>Jet Express</title>
  <link rel="stylesheet" href="style.css">
  <style>
    .d-block {
       width: 800px !important;
       height: 700px !important;
       margin: 10px 0 0 0;
       padding: 15px 100px 100px 50px;
       display: block;
       margin-left: auto;
```

```
margin-right: auto;
  width: 50%;
}
.slide {
  width: 100%!important;
  height: 100%!important;
  margin: 0px!important;
}
.navbar {
  background-color: #FADFD1 !important;
  font-family:Monaco;
  font-size:30px;
}
html {
  scroll-behavior: smooth;
}
.about-us {
  width: 80%;
  padding: 20px;
```

```
font-size: 30px;
  margin: auto;
  border-radius: 20px;
  border-style: outset;
  border-color: #ffe9d5;
  box-shadow: 2px 2px 12px 5px grey;
  background-color: #ffe9d5;
  margin-top: 40px;
  margin-bottom: 40px;
}
.about-us>h1 {
  color: #D2691E;
  margin-top: 30px;
  margin-bottom: 30px;
  letter-spacing: 2px;
  font-family: 'Adamina';
  text-align: center;
  margin-left: auto;
  margin-right: auto;
```

```
}
     .about-us>p {
       /* line-height:1rem; */
       letter-spacing: 1px;
       font-family: 'Trebuchet MS', sans-serif;
       font-size: 21px;
     }
    footer {
       width: 80%;
       font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans',
Arial, sans-serif;
       letter-spacing: 2px;
       margin-top: 20px;
       margin-bottom: 20px;
       padding: 30px;
       line-height: 34px;
       background-color: #ffe9d5;
       margin-left: auto;
       margin-right: auto;
       border-radius: 12px;
```

```
border-color: #ffe9d5;
     border-style: outset;
    box-shadow: 2px 2px 12px 5px grey;
  }
  footer>img {
    width: 30px;
    height: 25px;
  }
  footer>h1 {
     text-align: center;
    color: #D2691E;
    font-family:'Adamina';
  }
  footer>h4 {
     word-spacing: 120px;
    text-align:center;
    font-family: 'Trebuchet MS', sans-serif;
  }
</style>
```

```
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <a class="navbar-brand" href="http://localhost/Online-Courier-Management-
System/index.php">JET EXPRESS</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-</pre>
target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNavDropdown">
      ul class="navbar-nav">
        <a class="nav-link" href="index.php">Home<span class="sr-
only">(current)</span></a>
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
            Login
          </a>
          <div class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
            <a class="dropdown-item" href="userlogin.php">User Login</a>
```

```
<a class="dropdown-item" href="managerlogin.php">Manager Login</a>
        </div>
      class="nav-item">
        <a class="nav-link" href="#about">About Us</a>
      <a class="nav-link" href="#contact">Contact Us</a>
      </div>
</nav>
<div id="carouselExampleControls" class="carousel slide" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img class="d-block w-100" src="img/rider.jfif" alt="Second slide">
      <!-- <h1 class="slide-text">Your HEALTH is our first Priority</h1> -->
    </div>
    <div class="carousel-item">
```

```
<img class="d-block w-100" src="img/gang.jfif" alt="First slide">
         <!-- <h1 class="slide-text">Fastest Courier</h1> -->
       </div>
       <div class="carousel-item">
         <img class="d-block w-100" src="img/Truck 2 0.gif" alt="Third slide">
         <!-- <h1 class="slide-text">Most Trustworth Service</h1> -->
       </div>
    </div>
    <a class="carousel-control-prev" href="#carouselExampleControls" role="button" data-
slide="prev">
       <span class="carousel-control-prev-icon" aria-hidden="true"></span>
       <span class="sr-only">Previous</span>
    </a>>
    <a class="carousel-control-next" href="#carouselExampleControls" role="button" data-
slide="next">
       <span class="carousel-control-next-icon" aria-hidden="true"></span>
       <span class="sr-only">Next</span>
    </a>
  </div>
  <div class="about-us" id="about">
    <h1 class="head"> JET EXPRESS : COURIER SERVICE </h1>
```



The Jet Express Courier Service provides pickup and delivery service six days a week. Our goal is to provide a faster, more cost effective delivery of packages to your clients. The Jet Express Courier Service can help standardize delivery times.

<br>

>

Jet Express Logistic is one of the leading Integrated Service Providers in the logistics. We have become company specializing express delivery service from delivery of documents and parcels to customer all over India. Our business philosophy is to offer the best value for money and best advisory depending upon the requirements of the clients.

<br>

>

We can be contacted at JetExpress.in for website related queries. JetExpress.in is an independent web application to help users to track their consignments online. For your queries, contact to respective courier company customer care. JetExpress.in is a quick and easy way to track your parcels though popular courier services in India. You can find details of each courier company at one place and track your parcels at the same place. All product and company names are trademarks<sup>TM</sup> or registered trademarks<sup>®</sup> of their respective holders. Use of them does not imply any affiliation with or endorsement by them.

```
</div>
<footer class="cont" id="contact">

<h1> OUR BRANCHES </h1><br>
<h4> Bangalore Pune Chennai Mumbai New-Delhi </h4><br>
```

```
<img src="img/email.jpg">
     E-mail: JetExpress@gmail.com / JetExpresssService@gmail.com <br/>br><br/>
    <img src="img/phone.png">
    Phone: +91-9999555444 / +91-666666666666br><br>
    <img src="img/address.png">
    Address: 203, 2nd Floor, E-Wing, Hiranandani Complex, Jayanagar, Bangalore -
560029.
  </footer>
  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-</pre>
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle.min.js"</p>
integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx"
crossorigin="anonymous"></script>
</body>
</html>
4.3 Php code for user details in portal:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Details</title>
  <style>
    .block{
```

```
width: 25%;
  margin-left:auto;
  margin-right:auto;
  margin-top:50px;
  margin-bottom:50px;
  padding:20px;
  border: 3px #ffe9d5 outset;
  border-radius: 12px;
  background-color:#ffe9d5;
  box-shadow:2px 2px 8px 8px grey;
  /*box radius : 12px;*/
}
.line{
line-height: 1.9rem;
letter-spacing:1px;
margin-left:10px;
font-style:Georgia;
color:black;
text-transform:uppercase;
}
.home {
  padding: 9px 15px;
  margin-bottom: 50px;
  background-color: green;
  color: white;
  border-radius:8px;
  font-size :29px;
  font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
  margin-left: 700px;
  cursor :pointer;
}
```

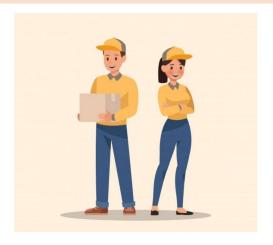
```
.error {
      margin-left: 23%;
      margin-top: 2%;
      font-size: 40px;
      color: brown;
    }
    .home > a \{
      text-decoration:none;
      color: white;
    }
    body{
      background-color:#FFFAF0;
    }
  </style>
</head>
<body>
</body>
</html>
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "courier_management_system";
    $conn = new mysqli($servername, $username, $password, $dbname);
    if ($conn->connect_error) {
      die("Connection failed: " . $conn->connect_error);
    session_start();
    u=SESSION['u'];
```

```
$$q11="select man id from management where user id=$u";
res1 = conn-query(sql1);
\text{srow1} = \text{sres1->fetch assoc()};
$$\sql2=\select branch id from bran where man id=\$\row1[\text{man id}]\'';
res2 = conn-query(sql2);
row2 = res2 - fetch assoc();
$sql3="select Distinct(cus id) as c id from courier where branch id="$row2[branch id]";
res3 = conn-query(sql3);
//$row3 = $res3->fetch assoc();
$sql4="select count(cus id) as cnt from courier where branch id='$row2[branch id]'";
res4 = conn-query(sq14);
row4 = res4 - fetch assoc();
if (\text{srow4}[\text{'cnt'}]==0)
 echo "<div class = 'error'>
    It Seems that still customers have not registered!!<br/>
    To Navigate back please <a href = 'index.php'>Click</a> Here !!!
    </div>";
}
else
 while(srow3 = sres3 - setch assoc())
 {
    $sql5="select * from customer where cus_id='$row3[c_id]'";
    $res5 = $conn->query($sq15);
    row5 = res5 - fetch_assoc();
  echo "<div class='block'>
  <div class ='line'> CUSTOMER'S ID:-$row5[cus id]</div>
  <div class ='line'>CUSTOMER'S NAME:-$row5[Cus Name]</div>
  <div class ='line'>CUSTOMER'S ADDRESS:-$row5[Address]</div>
  <div class ='line'>PHONE NO:-$row5[Phone No]</div>
```

```
<div class ='line'>USER ID:-$row5[user_id]</div>
</div>";
}
echo "<br/>br><button class = 'home'><a href = 'cnn.php'>HOME</a></button>";
}
?>
```

## **SNAPSHOTS**

JET EXPRESS Home Login ▼ About Us Contact Us



#### JET EXPRESS: COURIER SERVICE

The Jet Express Courier Service provides pickup and delivery service six days a week. Our goal is to provide a faster, more cost effective delivery of packages to your clients. The Jet Express Courier Service can help standardize delivery times.

Jet Express Logistic is one of the leading Integrated Service Providers in the logistics. We have become company specializing express delivery service from delivery of documents and parcels to customer all over India . Our business philosophy is to offer the best value for money and best advisory depending upon the requirements of the clients.

We can be contacted at JetExpress.in for website related queries. JetExpress.in is an independent web application to help users to track their consignments online. For your queries, contact to respective courier company customer care. JetExpress.in is a quick and easy way to track your parcels though popular courier services in India. You can find details of each courier company at one place and track your parcels at the same place. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.

# OUR BRANCHES Bangalore Pune Chennai Mumbai New-Delhi E-mail: JetExpress@gmail.com / JetExpresssService@gmail.com Phone: +91-9999555444 / +91-6666666666 Address: 203, 2nd Floor, E-Wing, Hiranandani Complex, Jayanagar, Bangalore - 560029.

Fig 6.1: Home Page, About us, Contact us



Fig 6.2: Login redirection portal for manager and customer

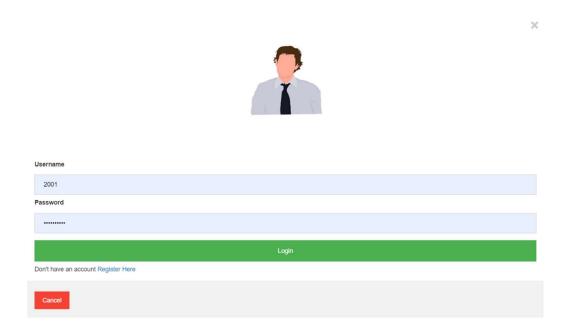


Fig 6.3: Login portal for customer

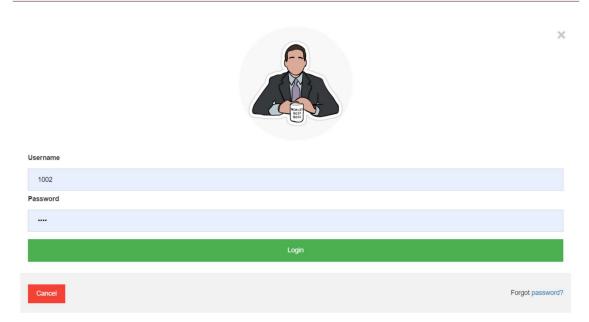


Fig 6.4: Login portal for Manager



Fig 6.5: Customer home page

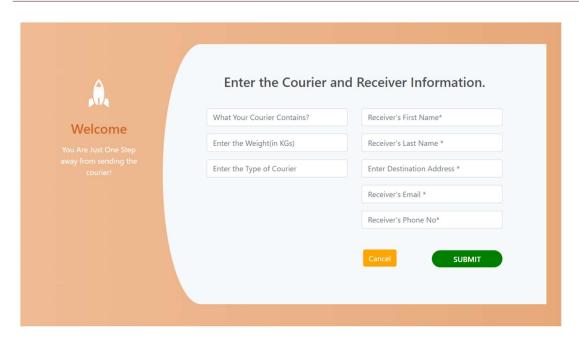


Fig 6.6: New couriers portal



Fig 6.7: Tracking order details



Fig 6.8: Manager home page



Fig 6.9: Customer details

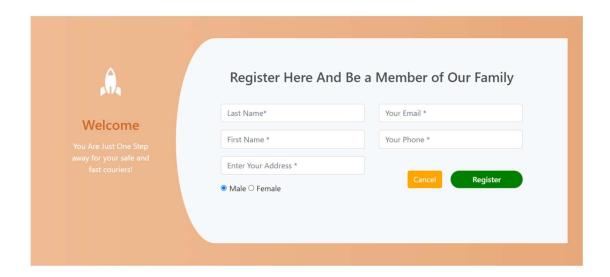


Fig 7.0: Register new user

## CONCLUSION

To summarize, the world is rapidly evolving and heading toward technical expertise.

Technology is not a static or stagnant field, but rather one that is constantly changing as new trends arise. As patterns change and improve, it's past time for us to change with them. The use of online courier management systems is important for getting accountability and making

goods get delivered quickly and making the work easier.

The Courier Management System will be used for day-to-day activities like out return, company details, hub rates, booking, non-delivery, and pickup centres. It is not easy to do this process manually because it would become very hectic. Hence it is suggested to automate the process by developing the relevant software as the world is moving from manual working to an information and technology era where automation becomes important in all parts of life.

The main purpose of this system is to connect all branches to the central database so the everywhere information is the same. This system increases efficiency and increases the customer satisfaction level.

#### **FUTURE ENHANCEMENTS**

It is still mature and fully enthusiastically. Any requirements, this project is completed but still, they want to update and modify some modules. We are always thinking about association requirements also growing day by day. We always want to implement something more. This project is completed when you watch, but we want to implement more things like:

- 1. Online Chat
- 2. Overseas Service
- 3. Pickup Request On chat
- 4. Extending geographical research
- 5. Add more functionalities to the system like users can have bar codes to ease the job.
- 6. Enhance User Interface by adding more user interactive features. Provide Deals and Promotional Offer details to home page.

Payment Options: Add different payment options such as PayPal, Cash, Gift Cards etc. Allow to save payment details for future use.

# **REFERENCES**

## **BOOKS:-**

- 1) Fundamentals of Database Systems, Ramez Elmasri and Shamkant B.Navathe, 7<sup>th</sup> Edition, 2017, Pearson
- 2) Raghu Ramkrishnan , Johannes Gehrke , Database Management Systems McGraw-Hill 2003.

We have made use of the following websites and resources as references for our project:

- 1. http://www.w3schools.com/
- 2. http://www.wampserver.com/en/
- 3. http://www.php.net/
- 4. http://www.tutorialspoint.com/mysql/
- 5. httpd.apache.org/docs/2.0/misc/tutorials.html

# **DECLARATION**

I hereby declare that this project report titled "Jet Express – Courier Service" submitted to **Dept of Computer Science, City Engineering College** is a record of original work done under the guidance of **Mrs. Archana Bhat** (Asst.Prof Dept of CSE).

The information and data given in the report is authentic to the best of my knowledge. This project report is an original work, as part of our academic course.

**ANANYA BHOMBORE (1CE19CS008)** 

**FOZAIL AHMED (1CE19CS031)** 

Dept Of CSE 2021-22 Page 32