A PROJECT REPORT
ON

LOGISTICS MANAGEMENT SYSTEM

Submitted in partial fulfillment of the requirements for the award of the degree of
BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING

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SCHOOL OF COMPUTER ENGINEERING
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BHUBANESWAR-24
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LOGISTIC MANAGEMENT SYSTEM

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C E R T I F I C A T E

*This is to Certify that the project report entitled "**Internship Counselling System**" is being carried out by Shreya Tiwari(1605011), Kumari Tanya(1605033), Kunal Chand(1605034), Ridhi Shree(1605043), Sagar Sinha(1605048), Sai Vivek Rambha(1605049) & Shourya Kapoor(1605063) of KIIT UNIVERSITY in partial fulfilment of the award of the degree of Bachelor of Technology in Computer Science & Engineering at School of Computer Engineering, KIIT UNIVERSITY, Bhubaneswar during academic year 2015-2016 under my supervision. The matter embodied in this project is original and has not been submitted for the award of any other degree.*

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ABSTRACT

"Logistics Management System" will act as an online web portal which helps to manage various transport facilities available to be provided to clients (brokers as well as borrowers) as per their requests.
Here user (brokers as well as borrowers) have to make their account in their corresponding frames in order to avail for the various privileges provided onto their corresponding sections.
It is comprehensive, easy to use, and has many features which make it suitable for end users. The end users can register online in a user-friendly interface. The contributors need to submit their details and which goes through a validation process, thus eliminating chances of incoherent data. The required vehicle related information can be obtained by a simple search mechanism.

Key words:
Logistics, comprehensive, user-friendly, genuine information, register, search, download information, ask queries, give and seek feedback, get to the point answers.

ACKNOWLEDGEMENT

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1. INTRODUCTION

The domestic cargo transport industry in India compromises of several modes including roadways. Railways Inland waterways, coastal shipping & airways. The Logistics Management System deals with managing various transport facilities Available to be provided to the clients as per requests.

1.1. Purpose:

The purpose of this system is to manage the various transport facility available to be provided to clients as per their requirement. The database will help us to store details of various transport facility provided by the client, background selection process will select the appropriate transport medium as per the client request and requirement. This system also ensures user authentication, login details and security of data.

1.2. Scope of Project:

Transportation is one of humanity's basic needs. With urban populations increasing, and rural areas posing their own unique challenges, there is tremendous scope for the development of efficient transportation solutions in India. Mobility and Connectivity provide the backbone of a nation's economic growth. IN simple way we can say, if we want to build any transport vehicles it needs designers to build it.

We can improve the efficiency of the system, thus overcoming the drawbacks of the existing methods and achieve the following:

- Authentic information
- Data consistency
- Easy to handle
- Easy data updating
- High security
- Easy record keeping
- Backup data can be easily generated
- Environment Friendly
- Immediate response
- Cost e

1.3. Role in Development:

This project is a team effort. All the group members discussed about the requirements & then with the available amount of data and other resources, we all have worked towards the completion of common goal.

2. Objective

This system helps us in

- This project deals with managing various transport facility available to be provided to clients as per their requests.
- It provides provision road transport, air transport and ship transport.
- It verifies and approves client's deals.
- Compared to the usual transportation system, this system responds quickly.
- Consumer savings and affordability

3. PROJECT PLANNING/SRS:

3.1 Questionnaire for Requirement Analysis:

1. What are the problems faced by brokers/clients?
2. How do you aim to solve the problem?
3. Who will provide the facility?
4. How do you authenticate the documents given to us?
5. Who are the end-users?
6. What are the details that need to be submitted during registration?
7. What are the extra features that need to be included?
8. Who has the right to edit post or make any updates?
9. What is the hierarchy of different users?
10. What is the privacy of each user type?
11. What should be the constraints for each user?
12. What are the registration requirements?
13. Do we need to keep track of feedback process?
14. What should be the time constraint for responding to a query?
15. Do you want to provide facilities like download a document? If yes, then who can download?
16. Do the users need any special services like conformation on mail/mobile?
17. Do you need the plug-in of social media (Facebook, Google+, LinkedIn, etc.) for registration and log in?

3.2 System Requirements

To run this application we need different types of software and tools such as:

1. HTML , CSS & Bootstrap(for designing the interface of the Application)
2. PHP(Back-End Development)
3. Mozilla Firefox (and other Web Browsers)
4. Here a centralized data base is used to store or retrieve the information. (My SQL)

.

3.3 Functional Requirements

R1: Registration

R1.1: Registration as an Admin

Description: A person register into the system as an Admin in order to access the background details of the website and make necessary modifications and updates to it.

Input: Personal details such as Name, Contact no, Email address, Username and Password.

Output: Admin Registration

R1.2: Registration as a Contributor

Description: A person register into the system as a moderator in order to submit details about the different logistics /services that he want .

Input: Personal details such as Name, Contact no, Email address, Username and Password.

Output: Contributor Control Panel

R1.3: Registration as a Member

Description: A person register into the system as a member to download the details of the vechiles he want.

Input: Personal details such as Name, Contact no, Email address, Username and Password.

Output: Member Control Panel

R2: Login

Description: Persons who are registered can Login using their respective Username and Passwords after which they can perform their respective task.

R2.1: Login as Admin

Description: An Admin can validate and then update the portal or review feedback.

Input: Enter username and password

Output: Admin Control Panel

R2.1.1: Validate the Entry

Description: An Admin can validate the vehicle entry submitted by contributor.

Input: A request for vehicle requirement

Output: Validated.

R2.1.2: Update Portal

Description: An Admin can update and modify different tables.

Input: Enter new or modified details.

Output: Details updated or modified.

R2.1.3: Review Feedback

Description: An Admin can review the feedbacks and suggestions made by different users and contributors.

R2.2: Login as Contributor

Description: A Contributor can submit the details, give feedback.

Input: Enter username and password

Output: Contributor Control Panel

R2.2.1: Submit Internship details

Description: A Contributor can submit entry regarding any request for logistics/services.

Input: Information Form

Output: Thank you Message

R2.2.2: Give Feedback

Description: A Contributor can give feedback about the Logistics system.

Input: Rating and suggestions in Feedback Form

Output: Acknowledgement message

R3: Searching

Description: A user can enter the key words related to logistics to find its details.

Input: Key words related to internships

Output: All the keywords matching with the entered key words are displayed.

R4: Download Documents/Information

Description: A user can download the information. But he must be logged in for that.

R4.1: Login as Student

Description: A Student can download the information, give feedback.

Input: Enter username and password

Output: Student Control Panel

R4.1.1: Download Internship details
Description: A Student can download entry.
Process: Selected vehicle information will be downloaded.
R4.1.2: Give Feedback
Input: Rating and suggestions in Feedback Form
Output: Acknowledgement message

3.4 Non Functional Requirements

Safety Requirements:

System has to check:

a) If Web Forms with input are consistent.
b) If Login of members is properly working.
c) If Constraints are there during registration.
d) Non Empty field in the registration form.

In case of error it should provide users with appropriate help messages.
In case of heavy online traffic, it is ensured that the software doesn't crashes and appropriate measures are taken.

Security Requirements:

For security of the system the technique known as database replication should be used so that all important data is kept safe.
This type of requirement is essential for user's data security.
It ensures that no other can access the data or manipulate the data apart from the concerned user.
Eg Security measures prevents anyone from accessing a transaction page of user in case anyone wishes to access data without logging in.

Software Quality Attributes Business Rules:

The system will have a simple and user-friendly graphical interface. Users will be able to understand and use all the features of the website easily. Any action will be performed with just a few click.

Business Rules:

System links the transport service provider with the client. And the transport service providers are gone through various tests to check a basic eligibility criteria for maintaining the value of company in market. There are other financial rules which specifies the financial transaction between transport provider and the company.

3.5 Features

The key feature of the project includes:

Registration: The Contributors and Students can register themselves online by providing proper information.

Login/Logout: To secure from the malicious attacks, the member's login is there which makes it password protected.

Booking Submission: The Contributors has to submit their internship details and wait for it to be validated.

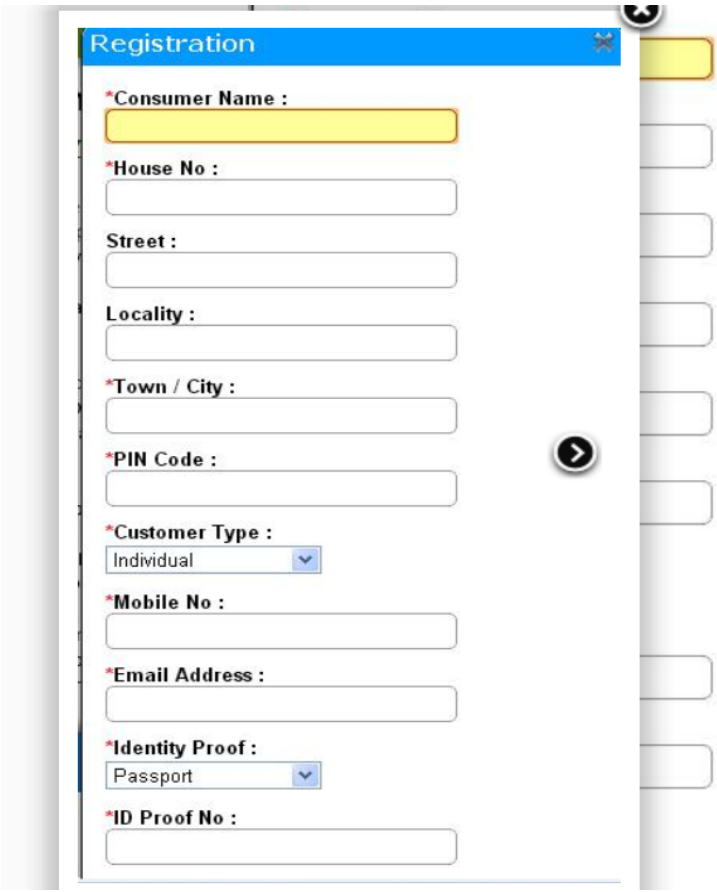
***Form Download*:** The Client can download a validated vehicle information and necessary documents for which log in is necessary.

Give Feedback: Members can give feedback about any internship or any other query.

4. PREPARATORY STUDIES

a. Knowing key features of Logistics Management
b. Preparing a Questionnaire - to ask to people who wants the privilege and who already had an experience
c. Learning to draw various UML Diagrams using Modelling tools
d. Learning database management – MySQL
e. Preparing questions for an registration form
f. Learning HTML, CSS & Bootstrap for front end designing.

We have also used form to initially gather logistics inputs to be showcased in our portal. This form was posted in social media sites to maximize participation.
The response that were received were used for showcasing after authentication by the admin. This process is a continuous one and is still in operation.
The sample form that we used to gather information has been showcased in the next page:



5. Design

5.1 UML Design

5.1.1 Use-Case Diagram

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. A use case diagram can identify the different types of users of a system.

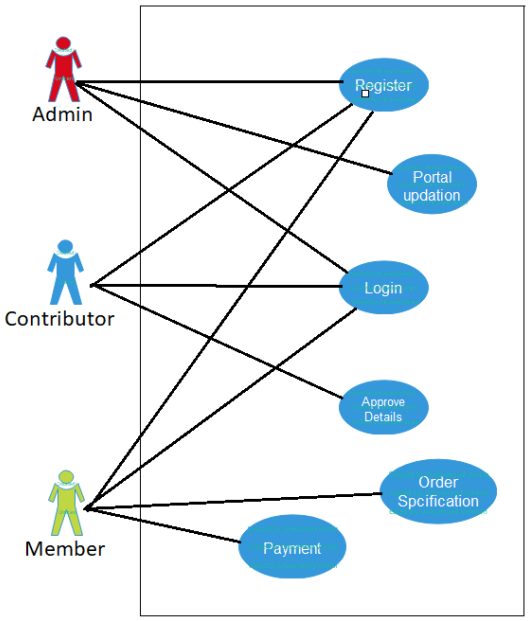
Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements.

The purposes of use case diagrams can be as follows:

> Used to gather requirements of a system.

> Used to get an outside view of a system.

> Identify external and internal factors influencing the system.



5.1.2 Activity Diagram

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency.

Activity diagrams show the workflow from a start point to the finish point detailing the many decision paths that exist in the progression of events contained in the activity. They may be used to detail situations where parallel processing may occur in the execution of some activities.

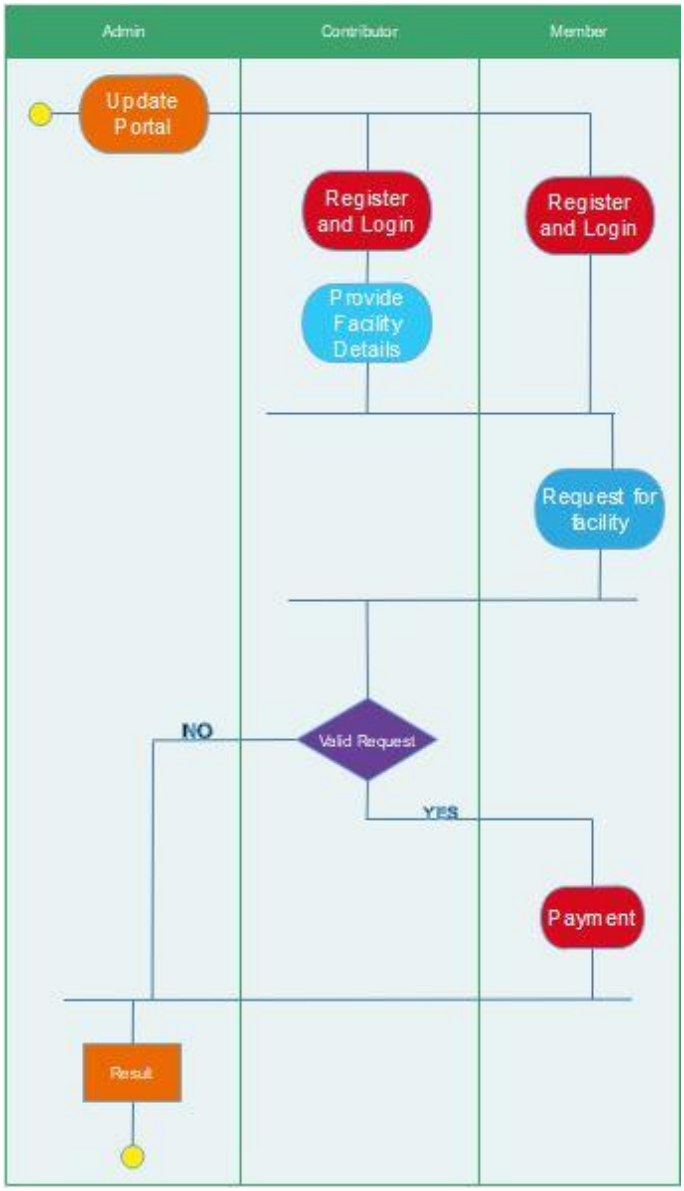
The following sections describe the elements that constitute an activity diagram.

Actions: An action represents a single step within an activity. Actions are denoted by round-cornered rectangles.

Control Flow: A control flow shows the flow of control from one action to the next. Its notation is a line with an arrowhead.

Initial Node: An initial or start node is depicted by a large black spot, as shown below.

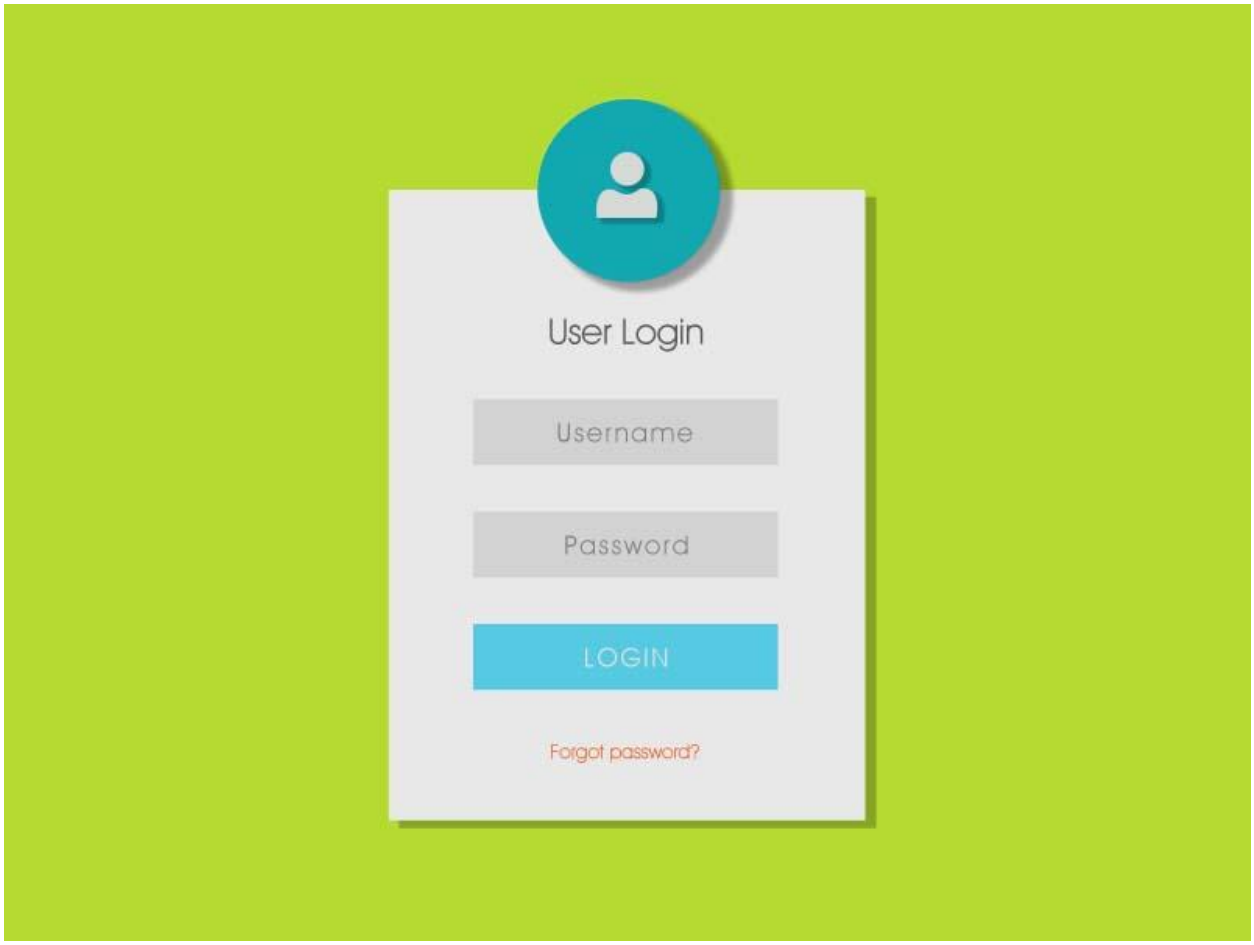
Final Node: There are two types of final node: activity and flow final nodes. The activity final node is depicted as a circle with a dot inside.



5.2 GUI DESIGN

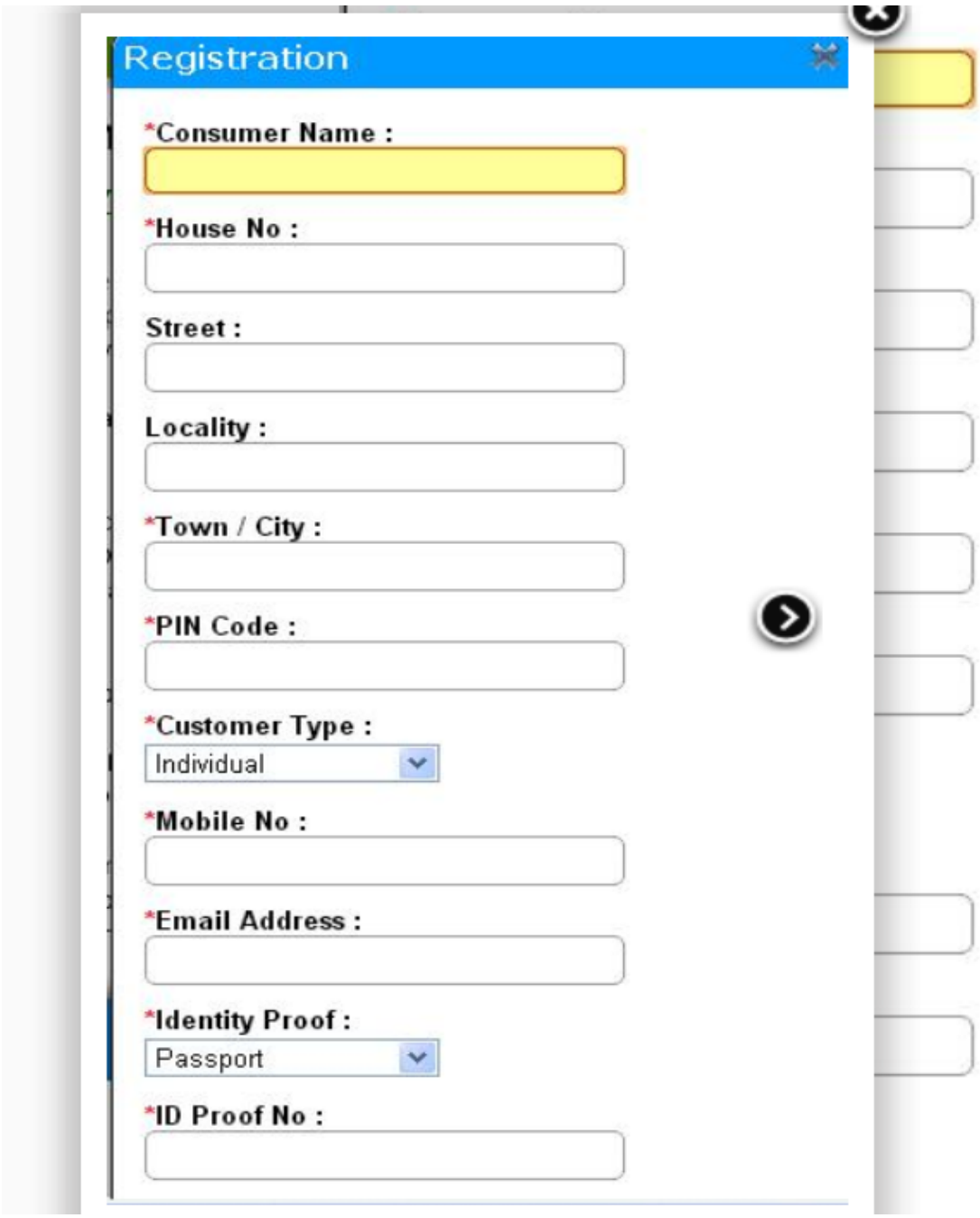
5.2.1 Login Page

Given below is the user interface of LOGIN page. The pre-requirement for using this facility is that the user must have already successfully registered. This page uses the REGISTER table to check the username and password entered. For correct entry, the login becomes successful and the user is logged in to user home.



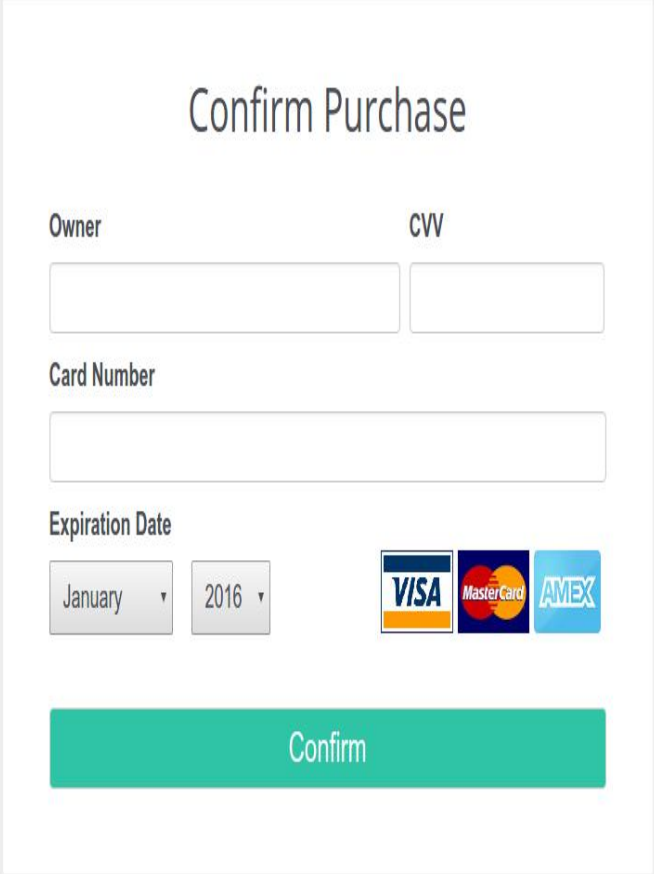
5.2.2 Member / Customer Registration Page

Given below is the graphical user interface (GUI) of the member / customer registration page . There are no pre-requirement to this page.



5.2.3 Payment Submission Page

Given below is the graphical user interface (GUI) of the payment / transaction submission page . The pre-requirement to this page is that user must be logged in and has gone through the approval process of the request he/she putted up .



6. Code Snippet

6.1 Database Connection

Given below is the code of database connectivity of our project. It shows the coding done to enable data connection which is required to perform our database operations.

```php
<?php
$condition="signin";

$username="root";
$password="kunal";
$hostname="localhost";
$database="dmrc";

if(isset($_POST['submit']))
{
  $uname= $_POST['uname'];
  $pname= $_POST['pname'];

  $conn = mysqli_connect($hostname,$username,$password,$database) ;

  $query="SELECT pass_word FROM user_pass WHERE user_name = '$uname'";

    if(! $conn)
    {
        $error="ERROR : UNABLE TO CONNECT TO MYSQL SERVER : ". mysqli_connect_error();

        header("location:login_page.php?error=$error&uname=--mysql connection error---");
    }

   else if( ! mysqli_query($conn,$query) )
   {
      $error="ERROR : UNABLE TO EXECUTE QUERRY 1 :  ". mysqli_error($conn);

    header("location:login_page.php?error=$error&uname=---mysql query error 1---");
   }
  else
   {
    $passwd = mysqli_query($conn,$query);

    $row= mysqli_fetch_row($passwd);

    if($row == FALSE)
    {
        $error="ERROR : NO SUCH USERNAME EXISTS";

        header("location:login_page.php?error=$error&uname=--user doesnt exists | Typed : $uname --");
    }
```

```php
    else
    {
            if ( $row[0] != $pname )
            {
                $error="ERROR : INVALID PASSWORD";
                header("location:login_page.php?error=$error&uname=--- Database : $row[0] | Typed : $pname ---");
            }
            else if( $row[0] == $pname )
            {
                $inst="SELECT status FROM user_pass WHERE user_name='$uname'";

                if( ! mysqli_query($conn,$inst) )
                 {
                    $error="ERROR : UNABLE TO EXECUTE QUERRY 2 :  ". mysqli_error($conn);

                    header("location:login_page.php?error=$error&uname=---mysql query error 2 | Typed : $uname---");
                 }
                 else
                 {
                   $status = mysqli_query($conn,$inst) ;

                   $row= mysqli_fetch_row($status);
                    if($row[0]==0)
                    {
                     $error="ERROR : SORRY, PRIVILEGES TO THE ACCOUNT HAS NOT BEEN ASSIGNED YET. CONTACT THE PROGRAMMER FOR FURTHER DETAILS.";

                     header("location:login_page.php?error=$error&uname=---status is 0 | Typed : $uname---");
                    }
                    else if($row[0]==1)
                    {
                     $condition="confirm";
                     //header("location:revenue_page.php?uname=$uname&status=$row[0]&submit='true'");
                    }
                 }
            }
    }
  }

 mysqli_close($conn);
}
?>
```

6.2 Query

Given below is the code of Query page. It shows how the query message is fetched and stored into query table for the smooth process of getting and responding to the queries.

```php
$idQ = mysqli_query($conn,$newQ);

                $roco= mysqli_fetch_row($idQ);

                $max= $roco[0] + 1;

                $inst ="INSERT INTO user_pass (id,user_name,pass_word,post,status) VALUES ($max,'$un','$pw','$pst',$stat)";

                if( ! mysqli_query($conn,$inst) )
                {
                    $error="ERROR : UNABLE TO EXECUTE QUERRY 3 :  ". mysqli_error($conn);

                    header("location:sign_up_page.php?error=$error&un=--mysql query error 3 | Typed : $un--");
                }
                else
                {
                  $error="CONGRATULATION !! ACCOUNT HAS BEEN SUCCESSFULLY CREATED. Admin OF THIS COMPANY WILL ASSIGN PRIVILEGES TO THE ACCOUNT SHORLTY";
                  header("location:login_page.php?error=$error&uname=--submission successfull--");
                }
```

6.3 Submit Data

Given below is the code of Submit page. It shows how the username and password get stored in database after the Create Account gets created.

```php
<div class="databox">

                <span class="Text"><b>Username :</b></span>
                <br>
<input type="text" name="un" placeholder="Enter Username" required>';
                <br>
                <br>

                <span class="Text"><b>Password :</b></span>
                <br>
                <input type="text" name="pw" placeholder="Enter Password" required>
                <br>
                <br>

                <span class="Text"><b>Confirm Password :</b></span>
                <br>
                <input type="text" name="cpw" placeholder="Confirm Password" required>
                <br>
                <br>

                <input type="submit"  value="Create Account" name="create">

                <br>

                <a href="login_page.php"><input type="button" value="Cancel" name="cancel"></a>

                <br>
                <br>

            </div>
```

7. TEST CASE:

In this section we have tabulated the different test cases that we carried out after the design and coding phase.

We have taken into account: test procedure, pre-condition, expected action, reference module, actual output and a remark section (pass/fail) to showcase our observation.

The Test Cases in tabulated format is as follows:

Test Cases for **Login** in logistic management system:

Sl. no.	Test case name & id	Test Procedure	Pre-condition	Expected Action	Reference Module	Actual Output	Remarks
1.	Check the fields available	Open a browser and type the URL	Internet is working and registered	The login page should contain the following text fields: Username & Password	Login Module	successfully logged in and directed to home page	PASS
2.	Check for buttons	View the buttons in the login page	Internet is working and registered	The login should contain the Login button	Login Page	The button is available and user successfully logged in	PASS
3.	Login	All things are kept blank and click on	Internet is working and	username & password should be	Login Module	Error message (please enter details to login)	FAIL
4.	Login	Entered username and password is kept blank	Internet is working And registered	Enter correct username & password	Login Module	Error message (Password is not entered. Try Again)	FAIL

	Login	Entered password and username is	Internet is Working and registered	Enter correct username & password	Login Module	Error message (Please enter username to login)	FAIL
6.	Login	Entered wrong username and password	Internet is working and registered	Enter correct username & password	Login Module	Error message (Incorrect Details)	FAIL
7.	Login	Entered username and wrong password	Internet is working and registered	Enter correct username & password	Login Module	Error message (Incorrect Details)	FAIL
8.	Login	Entered wrong username and correct password	Internet is working and registered	Enter correct combination of username & password	Login Module	Error message (Incorrect Details)	FAIL
9.	Login	Entered correct username and password	Internet is working and registered	Logged In	Respective Pages	Directed to user home. Logged in.	PASS

Test Cases for **Submit** detail in logistic management system:

Sl. no.	**Test case name & id**	**Test Procedure**	**Pre-condition**	**Reference Module**	**Actual Output**	**Remarks**
1.	Facility Request Submission	Open the browser and click and get the home page of user	Internet is working & Logged in as Contributor	submission Module	Successfully submitted the form	PASS

2.	Facility Request Submission	All things are kept blank and click on submit	Internet is working & Logged in as Contributor	Submission Module	Error message (Please fill up the fields)	FAIL
3.	Facility Request Submission	Enter all the mandatory fields only.	Internet is working & Logged in as Contributor	Submission module	Successfully submitted the form.	PASS
4.	Facility Request Submissio n	Enter the email id of the user & other fields are kept blank.	Internet is working & Logged in as Contributor	Submission Module	Facility Request Details could not be submitted.	FAIL
5.	Facility Request Submissio n	Enter the email id of the user, college name, branch, year & other non necessary fields are kept blank.	None (File should be in .pdf)	Submission Module	Facility Request Details is submitted successfully.	PASS

8. FUTURE WORK

The Project entitled “Logistic Management System” so far allows user to register online, submission of facility details by members, search and download of required information by members. It also allows admin to authenticate and manage the information of online portal. This facility allows the contributors to contact with facility providers to provide the facility details in the portal.

As an extension of this project, we plan to:

1. **Enable message service:** in relation with this system that shall enable sending messages via mail/mobile to the users for different purposes. For example, Members shall receive messages regarding the status of their facility request and whether their submission request has been accepted or rejected by the contributors.All users shall receive message of their successful registration.

2. **Create mobile application:** as almost everyone today is an owner of a smart phone and people would usually prefer to check their smart phone apps rather than going through the traditional method of logging in through a website.

3. **GUI Upgradation:** the graphical user interface will be upgraded as per users requirements . It will be more user friendly .

9. CONCLUSION

The “Logistic Management System” provides a convenient and productive solution for the search and application of transport facility opportunities. The project is designed in a user- friendly manner so that it can be accessed easily. Necessary functions have been added to ensure authentication of the information provided. The application provides flexibility in the system according to the changing environment with the facility to update data from time to time. Special care has been taken to ensure controlling of redundancy in storing the same data multiple times and also validation checks for the data entered. Methods adopted in the system are such that it provides for prompt and specific retrieval of data. Prime importance is given to security of the data entered by the users of the application.

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