CS1106: DATABASE SYSTEMS

VEHICLE INSURANCE MANAGEMENT SYSTEM

Institute of Engineering & Technology (IET)

JK Lakshmipat University, Jaipur

June, 2021

Submitted by: **Submitted by:**
Akshi Agarwal: 2019/btech/cse003   Dr. Taruna Sunil
Prachika Kanodia: 2019/btech/cse068

ACKNOWLEDGEMENTS

We have completed this Project of Database Management System from under the guidance and supervision of Dr. Taruna Sunil **(Associate Professor of Computer Science Engineering, Institute of Engineering and Technology JK Lakshmipat University, Jaipur).** We will be failed in our duty if we do not acknowledge the esteemed scholarly guidance, assistance and knowledge. We have received from them towards fruitful and timely completion of this work.

Our acknowledgement may not redeem the debt we owe to our parents for their direct/indirect support during the entire project of this course.

We also thank our colleagues who have helped in successful completion of the project to us.

<div align="right">

Akshi Agarwal

(2019BTECHCSE003)

Prachika Kanodia

(2019BTECHCSE068)

</div>

INDEX:

ABSTRACT

Our proposed project aims to build and manage a database that can be very beneficial for an insurance company. The insurance company needs to keep track of all the details of its target companies, agents, policyholders, their premium payments and the various products they offer. In the project, we intend to use the concepts involved in handling the data acquired from insurance companies, agents, and employees using MySQL and PHP. The database will include multiple tables which will be managed efficiently. Some functions will run which would classify the policies based on their status that whether they are active, lapsed, matured, etc. According to those classifications, different tables are created in database and according to functions, records are grouped in respective tables.
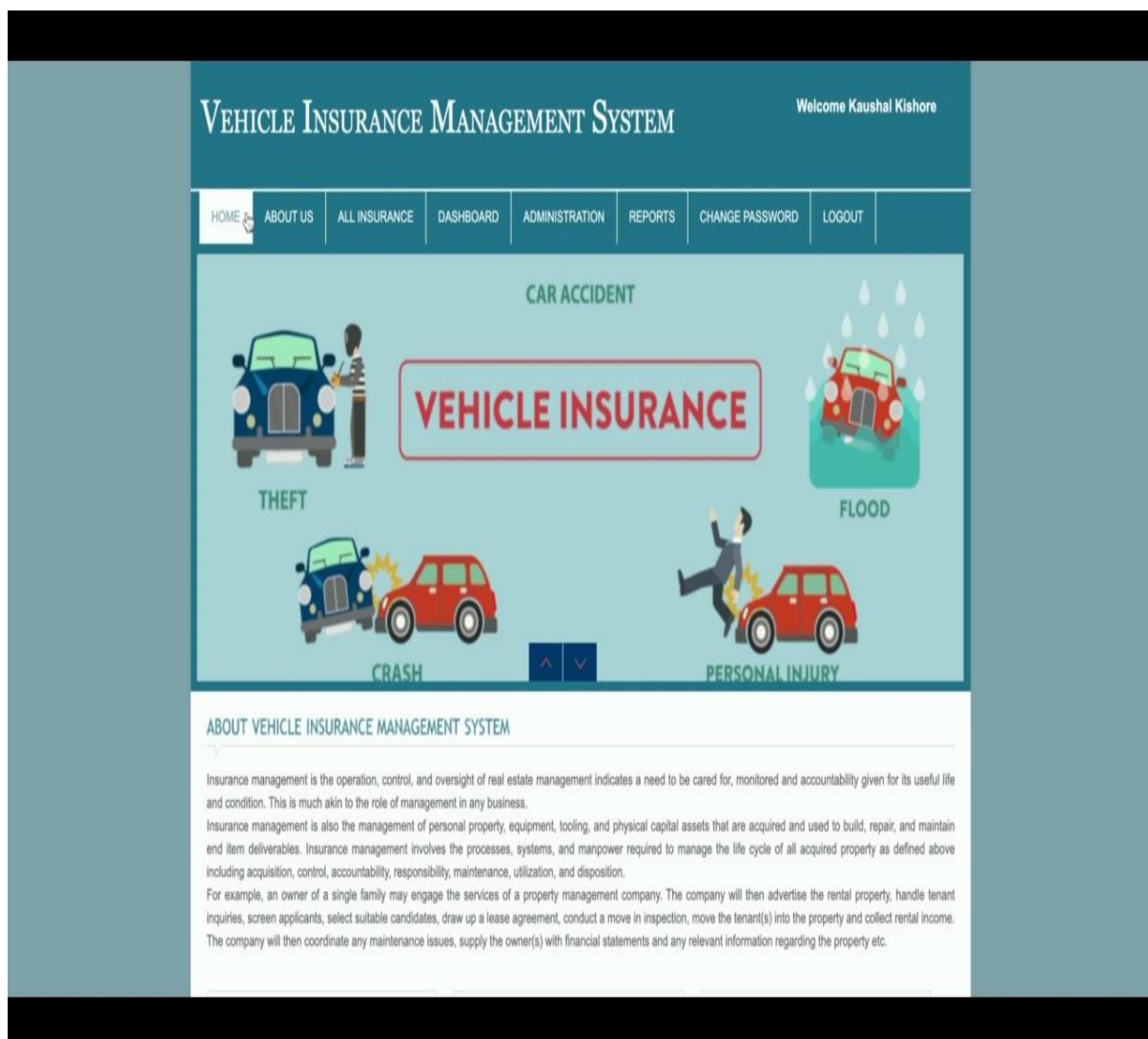
CHAPTER 1

1.1 INTRODUCTION

Insurance Policy information control gadget is an internet primarily based totally challenge which is evolved for monitoring the information of the coverage patron information and employer information. This collection of net pages is a web coverage evaluation and records control gadget that gives clean get right of entry to of records regarding the human beings and assets of coverage. User can view their personal private information while login into the Policy Holder module. This challenge is beneficial for any form of coverage employer to control the coverage information, to sanction the coverage for patron, technique the coverage information and all form of coverage technique through online. The Insurance control gadget is a entire answer for organizations, which want to control coverage for his or her vehicles, equipment, buildings, and different assets. This coverage control gadget can efficiently control the employer, records, presents immediately get right of entry to and one which improves the productivity. It will display information about coverage and its types, additionally it'll display the information about distinctive length schemes to the corresponding coverage kind. The essential goal of the evolved gadget is to permit admin customers to sign up insured folks with their name, date, house address, scientific records and additionally coverage information.

A database control machine (DBMS) refers back to the technology for developing and coping with databases. Basically, DBMS is a software program device to organize (create, retrieve, replace and manage) information in a database. The principal goal of a DBMS is to deliver a manner to keep up and retrieve database records that is each handy and efficient. By information, we imply regarded data that may be recorded and which have embedded meaning. Normally humans use software program including DBASE, Microsoft ACCESS or EXCEL to keep information withinside the shape of database. Database structures are intended to deal with huge series of records. Management of information entails each defining systems for garage of records and imparting mechanisms that may do the manipulation of these stored records. Moreover, the database machine ought to make certain the protection of the records stored, notwithstanding machine crashes or tries at unauthorized access. This challenge is goal at computerizing the guide technique of automobile insurance machine. Front cease and backend are applied the use of HTML+CSS+Bootstrap and PHP+MySQL in XAMPP Server respectively.

The ER (Entity Relationship) Diagram represents the model of Vehicle Insurance Management System Entity. The entity-relationship diagram of Insurance Management System shows all the visual instrument of database tables and the relations between Payments, Insurance, Plans, User etc. It used structure data and to define the relationships between structured data groups of Insurance Management System functionalities. The main entities of the Insurance Management System are as follows:-

- ✓ **User**
- ✓ **New Category**
- ✓ **New Policy**
- ✓ **Buy Policy**
- ✓ **Payment**

1.2 OBJECTIVE OF THE STUDY

The major goal of the evolved gadget is to permit admin/customers to sign in insured humans with their name, date, house address, clinical records and additionally coverage info. It additionally allows the consumer to view their very own coverage repute records. The internet pages offer clean hyperlinks for clean navigation in the gadget. A vacationer with minimal information of internet browsing/browsing can get right of entry to the web website online very easily. The evolved gadget have to permit admin customers to sign in insured humans with their name, date of birth, house address, clinical records and additionally coverage info. Due to dynamic nature of features, the contributors, admin contributors have to be capable of recognize the furnished facilities. After getting info of all of the insured people, gadget have to be capable of delete undesirable humans' data. If the coverage holder desires to view the records approximately their very own coverage info, he/she will login to coverage repute web page via way of means of the usage of the essential info already given via way of means of coverage agency and examine their very own info and additionally they provide remarks to the coverage 6 agency. An online assist documentation might be furnished to assist the customers and traffic in the usage of the facilities.

- ✓ To computerize the Insurance System.

- ✓ To lessen Data Redundancy.

- ✓ To lessen the bulky process of keeping numerous documents.

- ✓ To eliminate the delays in record technology for coverage policies and categories.

- ✓ To facilitate faster looking of records via way of means of coverage agencies and worried parties.

- ✓ Thus, decreasing time, power and cost.

- ✓ To provide warranty to the coverage holders approximately hold Data Privacy and Security.

CHAPTER 2

LITERATURE SURVEY

2.1 Introduction to Insurance Management System:

DBMS stands for Database Management System. We can ruin it like this DBMS= Database+Management+System. Database is a group of facts and Management System is a hard and fast of applications to keep and retrieve the ones facts. Based in this we will outline DBMS like this: DBMS is a group of inter-associated facts and set of applications to keep and access the ones facts in a smooth and powerful manner. Database machine are essentially evolved for big quantity of facts. When coping with big quantity of facts, there are matters that require optimization: Storage of facts and retrieval of facts. According to the ideas of database systems, the facts is saved in any such manner that it acquires plenty much less area because the redundant facts(replica facts) has been eliminated earlier than storage. Along with storing the facts in an optimized and systematic manner. It is also crucial that we retrieve the facts fast whilst needed. Database machine guarantees that facts is retrieved as fast as possible.

⬇ APPLICATIONS OF DBMS:-

The improvement of laptop snap shots has been pushed each via way of means of the wishes of the consumer network and via way of means of the advances in hardware and software program. The applications of database are many and varied; it is able to be divided into 4 foremost areas:-

1. Hierarchical and community system

2. Flexibility with relational database

3. Object orientated application.

4. Interchanging the statistics at the net for e-commerce.

⬇ DISPLAY INFORMATION:-

In this precise project, we're taken HTML net web page as a the front lead to order to show the facts which might be saved withinside the backend database referred to as MySQL. HTML stands for Hyper Text Markup Language.HTML describes the shape of net pages the use of markup. HTML factors are the constructing blocks of HTML pages. Browser do now no longer show the HTML tags however use them to render the content material of web page.

↓ DESIGN:-

Professions inclusive of engineering and structure are worried with design. Starting with a hard and fast of specification engineers and designers are looking for a fee powerful and aesthetic answers that satisfies the specifications. Design is an iterative process not often withinside the actual global is a trouble special such that there's a completely unique optimal solution. Thus, the fashion dressmaker works iteratively.

↓ USER INTERFACES:-

Our interactions with computer systems have emerge as ruled via way of means of a visual paradigm that consists of windows, icons, menus, pointing device, inclusive of a mouse. Although we're acquainted with the syntax of MySQL, advances in MySQL have made feasible different varieties of advantages.

↓ WHAT IS MySQL?

MySQL is multithreaded, multi consumer SQL database control System (DBMS). The primary software run as server supplying multiuser get admission to to a number of databases. The project's supply code is to be had below phrases of the GNU General Public Licence, in addition to below loads of belongings arguments. MySQL is a database. The statistics in a MySQL is saved in a Database gadgets referred to as tables. A desk is a set of associated statistics entries and it includes columns and rows. The databases are beneficial whilst storing facts categorically. MySQL is a significant additives of the LAMP open supply net application software program stack (and different "AMP" stacks). LAMP is an acronym for Linux, Apache, MySQL, Perl/PHP/ Python. Application that use the MySQL database include TYPO3, MODx, Joomla, WordPress, PHPBB, MyBB and Drupal .MySQL is also used in lots of excessive profile, massive scale net sites, which includes Google.

↓ MySQL COMMAND SYNTAX:-

As you would possibly have determined from the easy software withinside the previous section, MySQL makes use of particularly makes use of six instructions wherein SELECT is used to retrieve rows decided on from one or extra tables. FROM refers back to the desk from which we want to pick out the attributes. WHERE clause, if given, suggests circumstance or situations that rows should fulfil to be decided on. Where circumstance is expression that evaluates to proper for every row to be decided on. This announcement selects all rows if there isn't any in which clause. GROUP BY clause used to institution the values of the attributes furnished that values should be identical. HAVING clause is implemented almost last, just earlier than gadgets are despatched to the patron, and not using an optimization. If the HAVING clause refers to a column this is ambiguous, caution occurs. ORDER BY clause is used for the cause of sorting the values of the attributes

in a result. If you operate GROUP BY ,output rows are taken care of in keeping with GROUP BY columns as in case you had an ORDER BY for the identical columns.

✦ MySQL-ASSOCIATED LIBRARIES:-

The MySQL PHP extensions are light-weight wrappers on pinnacle of a C patron library. The extensions can both use the MySQL and library or libmysqlclient library. Choosing a library is a bring together time decision. The MySQL and library are part of the PHP distribution because 5.3.0. It gives capabilities like lazy connections and question caching, capabilities that aren't to be had with the libmysqlclient, so the use of the constructed in library is quite recommended. It is suggested to apply the MySQL and library as opposed to the MySQL patron server. Both libraries are supported and continuously being improved.

2.2 Triggers:

A database cause is procedural code this is mechanically carried out in reaction to sure activities on a selected desk or view in a database. The cause is mostly used for retaining the integrity of the facts at the database. For example, while a new record (representing a brand-new worker) is introduced to the personnel desk, new records must additionally be created withinside the tables of the taxes, holidays and salaries. Triggers can additionally be used to log historic records.

✦ STORED PROCEDURE:-

A saved manner is a subroutine to be had to packages that get admission to a relational database control system (RDBMS). Such tactics are saved withinside the database records dictionary. Uses for saved tactics consist of records-validation (included into the database) or get admission to-manage mechanisms. Furthermore, saved tactics can consolidate and centralize good judgment that become firstly carried out in packages. To keep time and memory, extensive or complicated processing that calls for execution of numerous SQL statements may be stored into saved tactics, and all packages name the tactics. One can use nested saved tactics through executing one saved manner from inside another.

✦ WEB-PAGES:-

Webpages are created using HTML and CSS as frontend and data is stored in database using PHP MySQL queries.

CHAPTER 3
ANALYSIS AND REQUIREMENT SPECIFICATIONS

3.1 Purpose:

The purpose of this project is to outline Vehicle Insurance System and requirements, to recommend data management solutions and to provide a information regarding the insurance and its policies. The purpose of this project is to develop a data management system to consolidate, organize, document, store and distribute information related to insurance management system. A centralized database created to consolidate data, allowing integrated, long term analyses, and dynamic search ability with user friendly query tools to be performed to support adaptive management. Many data collection, analysis and presentation software programs that are currently being used must be able to interface with any new data management system. Continuity with consistent data collection methodology is enforced by a common database system, allowing for standardized format for forms ad reports between projects.

3.2 Scope:

The scope of the project is managing a consistency and storage of data by dedicated data administrator. 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.

3.3 Functional Requirements:

Two modules are used in this project namely Admin and Customer:-

• **Admin:-** can add policy, category, customers; buy policy; analyse the logs.

• **User:-** can register; buy policy; analyse the logs.

3.4 Non-Functional Requirements:

• **Hardware specifications:-**

   ✓ Processor: i5 Core Processor
   ✓ Clock speed: 2.5GHz
   ✓ Monitor : 1024 * 768 Resolution Color
   ✓ Keyboard : QWERTY
   ✓ RAM : 4 GB
   ✓ Input Output Console for interaction

- **Software specifications:-**
  - ✓ MySQL Libraries
  - ✓ MySQL Workbench
  - ✓ Operating system : Windows10
  - ✓ An attractive and methodical Insurance Policy Management System requires the amalgamation and utilization of modern technologies like the PHP, CSS and MySQL.

    - PHP - It is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is an acronym for "PHP: Hypertext Preprocessor".

    - CSS - This is used for styling purpose. HTML coding is just a structure and CSS is applied to dictate the look and feel. Font size, font colour, font style styling of images, page layout, and more are determined by CSS.

    - MySQL - It provides us a way to integrate and manage the database for the policy system by using the various commands to handle the queries.

    - XAMPP – This is a software used to connect php files and the database on a local server.

CHAPTER 4
PROBLEM FORMULATION

4.1 Disadvantages of Existing System:

After studying existing system we found following problems and weaknesses in the system:

1) Current system is manual.

2) It is time consuming because it takes lots of time in searching accurate detail about various vehicle insurance policy plans.

3) It is very difficult to locate the agents in order to buy policy.

4) Customer has to maintain the records of policy hold by them manually. It is very difficult for the customer to remember when he has to pay policy premium and what the date of his policy maturity is.

5) Online Policy Premium Payment is not possible.

6) It is costly in terms of advertisement and marketing.

4.2 Problem Statement:

The existing system of Insurance has lengthy procedure of getting a insurance and it also contains a chain of middle men. So, using **LongSage Vehicle Insurance Management System** an individual can easily buy after comparing various insurance plans as whole data is centralized at one place just by filling necessary details.

⬥ ASSUMPTIONS:-

- The admin has power to add new customer, add new policy, add new categories, And can buy policy for customers and also able to analyse the logs using table.

- The customer can contact to admin for the query related to insurance and can buy insurance, able to see the logs using table of previously taken policies and payments.

4.3 Problem Description:

The problem tackled in the project is to handle the policy data using database management system. This project would focus on both front-end as well as back-end for systematic working.

Data input would be given from the front-end by users. The front-end would be a HTML form.

- Relation between client and his policies is a one to many relationship, but policy type to clients is a many to many relationship.

- Data would be handled at the back-end using different tables and relations using MySQL.

- A policy taken by a client has attributes like category, plan, date of commencement, etc.

- A client has attributes including personal details as well as details about the policy he/she has taken.

- A policy type contains attributes describing the type of policies like Third Party insurance, Standard insurance and Commercial insurance.

- There would be many other tables where records of policies taken by different clients would be present depending on its status.

The developed system should allow admin users to register insured persons with their name, dates, residence address and also policy details.

After registering all the insured persons, website should provide management facilities like delete unwanted persons' data. And also should provide awareness to the visitors about micro insurance through articles.

CHAPTER 5

DESIGN

This project has been developed using PHP MySQL in XAMPP 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.

In the proposed Vehicle Insurance Management System, all the work will be digitalized and is done via computers and internet. All the details regarding the insurance holder and schemes will be added via computer and the information data is being saved in servers. Backup should be there in case if by chance any of the information will be lost. Time consume will be reduced and users will get any easy way to access their insurance related information and new upcoming schemes. Users just have to click on the button and just have to wait for some moments and they get an easy access to their information. The proposed system is for making easier to manage policy holder details, agent details, policy details, claimant details and payment details. The proposed system is designed to eliminate the drawbacks of the existing system. It is designed by keeping to eliminate the drawbacks of the present system in order to provide a permanent solution to the problems. The primary aim of the new system is to speedup transactions. This insurance management system will be developed for 7 managing the insurance management system. The overall system is control through the main menu. The report is prepared for the schemes and implemented by the concerned officials.

5.1 ER Model and Relational Schema:

(1) Entities and Attributes:-

Insurance Information System has 5 tables in the MySQL Database.

- Registration of the User from where all entries of customers which are registered shown.

- New Category show entries of when admin add the new categories.

- New Policy show policies and plans added or updated by the admin.

- Buy Policy show entries of policies with plans that customer buy or admin for the customer.

- Payment includes all the details of card number when payment done successfully by the customer or admin for the customer.

(2) ER Model and Relational Schema:-

USER

email_address
first_name
last_name
mobile_number
role_name
password
gender
address
postal_code

BUY_POLICY

policy_id	
policy_type	
start_date	
total_amount	
end_date	
customer_name	
vehicle_number	
registration_date	
email_address	(FK)

LOGIN

email_address	(FK)
password	
role_name	

NEW_POLICY

policy_id	
policy_type	
duration	
cost	
description	
email_address	(FK)

PAYMENT

date	
cardholder_name	
card_number	
card_expirymonth	
card_expiryyear	
card_cvc	
email_address	(FK)
total_amount	(FK)

NEW_CATEGORY

insurance_name	
description	
email_address	(FK)

CHAPTER 6

IMPLEMENTATION AND SNAPSHOTS

Description of Modules:-

There are 2 base modules used in this project: -

1) Connection.php file :– This file is common for all and included in all the other pages used in this project. This file is to connect the database to the page in which query is going to be run making changes in the database.1o

2) Signout.php file :– To end the session this page will help us to take to the Landing page.

5.1 Implementation:

(A) Implementation of Connection.php file:-

```php
<?php
session_start();

$servername="localhost";

$username="root";

$password="";

$dbname="insurance_management_system";

$conn=mysqli_connect($servername,$username,$password,$dbname);

if($conn)
{
   echo "";
}
else
{
   die ("Connection failed because ".mysqli_connect_error());
}
?>
```

(B) Implementation of Different Functionalities:-

(1) HASHING:-

```php
<?php
  if(isset($_POST['Register'])){
  $uname=$_POST['Email_Address'];
  $sql="select * from register where Email_Address='".$uname."'";
  $result=mysqli_query($conn,$sql);
  if(mysqli_num_rows($result)>0){
     echo "<script>alert('This Email Address is already registered.')</script>";
     echo"<script> window.location.href=\"Login.php\";</script>";
      }
   else{
     if($_POST['Password']       ==       $_POST['Confirm_Password']       &&
strlen($_POST['Password']) >= 8){
        $q = "insert into register (`First_Name`, `Last_Name`, `Password`,
`Gender`, `Email_Address`, `Phone_Number`, `Address`, `Postal_Code`)
values('$_POST[First_Name]','$_POST[Last_Name]',
'".md5($_POST['Password'])."',     '$_POST[Gender]',     '$_POST[Email_Address]',
'$_POST[Phone_Number]', '$_POST[Address]', '$_POST[Postal_Code]')";
        $query_run = mysqli_query($conn,$q);
       }
     echo "<script>alert('You are registered.')</script>";
     echo"<script> window.location.href=\"Login.php\";</script>";
     }
   }
  if(isset($_POST['Cancel'])){
    header("Location: landingpage.html");
}
  ?>
```

(2) BOOTSTRAP/JS:-

```
<link rel="stylesheet" type="text/css" href="bootstrap.css">
<script src="jquery-3.6.0.js"></script>
<script src="bootstrap.css"></script>
```

(3) SESSION:-

```
if(isset($_SESSION["Email_Address"]))
{
  if($_SESSION["Role_ID"]=="Customer")
    header("Location: CustomerDash.php");
    else
      header("Location: AdminDash.php");
}
if(isset($_POST['Login'])){
  $uname=$_POST['Email_Address'];
  $password=$_POST['Password'];
  $sql="select * from register where Email_Address='".$uname."'AND Password='".md5($password)."' AND Role_ID='Customer'limit 1";
  $a="select * from register where Email_Address='".$uname."'AND Password='".md5($password)."' AND Role_ID='Admin'limit 1";
  $result=mysqli_query($conn,$sql);
  $e=mysqli_query($conn,$a);
  if(mysqli_num_rows($result)==1){
    $_SESSION["Email_Address"] = $uname;
    $_SESSION["Role_ID"] = 'Customer';
      header("Location:CustomerDash.php");
  }
  elseif(mysqli_num_rows($e)==1){
    $_SESSION["Email_Address"] = $uname;
    $_SESSION["Role_ID"] = "Admin";
      header("Location:AdminDash.php");
```

```php
  }
  else{
    echo "<script>alert('Woops! Email or Password is Wrong.')</script>";
  }
}
?>
```

(4) SESSION START/DESTROY FUNCTION:-

```php
session_start();
session_destroy();
```

(5) CONTACT AND MAILING:-

```html
<a href="tel:8005567185"   class="fas fa-phone"></a>
<a href="mailto:prachikakanodia2507@gmail.com" target="_blank"   class="fas fa-envelope-open"></a>
```

(6) SEARCH OPTION:-

```php
<?php
  $conn = new mysqli('localhost', 'root', '', 'insurance_management_system');
   if(isset($_GET['search'])){
     $searchKey = $_GET['search'];
     $sql = "SELECT * FROM buy_policy WHERE Customer_Name LIKE '%$searchKey%'";
   }else
   $sql = "SELECT * FROM buy_policy";
   $result = $conn->query($sql);
  ?>
```

NOTE:-

➢ Signout.php file and Register page is for admin, customer, policies and premiums.

➢ Connection.php file is common file for all.

➢ There are some other codes which are given in the link below:-
GitHub link:- https://github.com/prachikakanodia2507/Vehicle-Insurance-Management-System

5.2 Snapshots:

(A) Home page:-

The home page contains the links to data and registration page, login page and overview about the company.
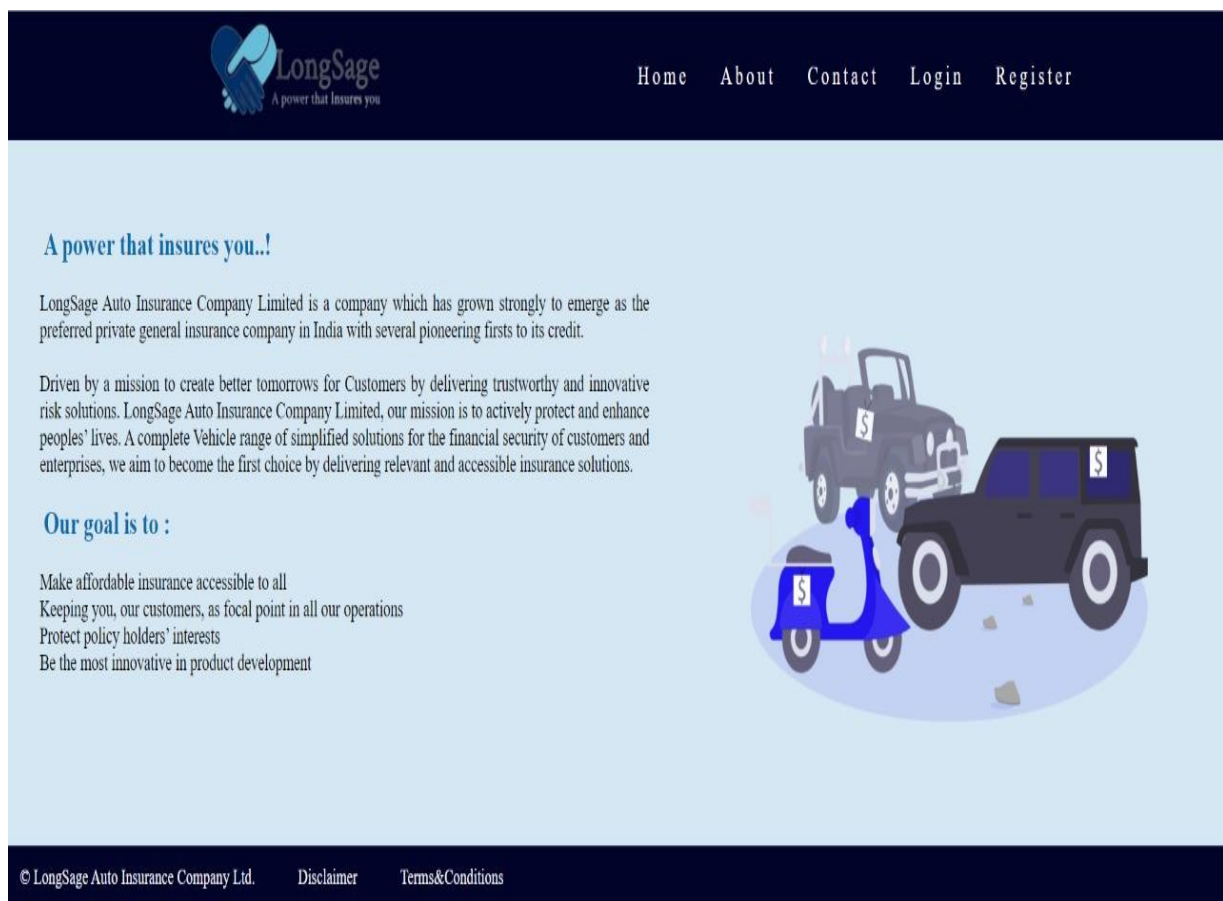
(B) Login page:-

If you already registered then you can login using your credentials here. It will direct to the dashboard according to your role either you are admin or customer.
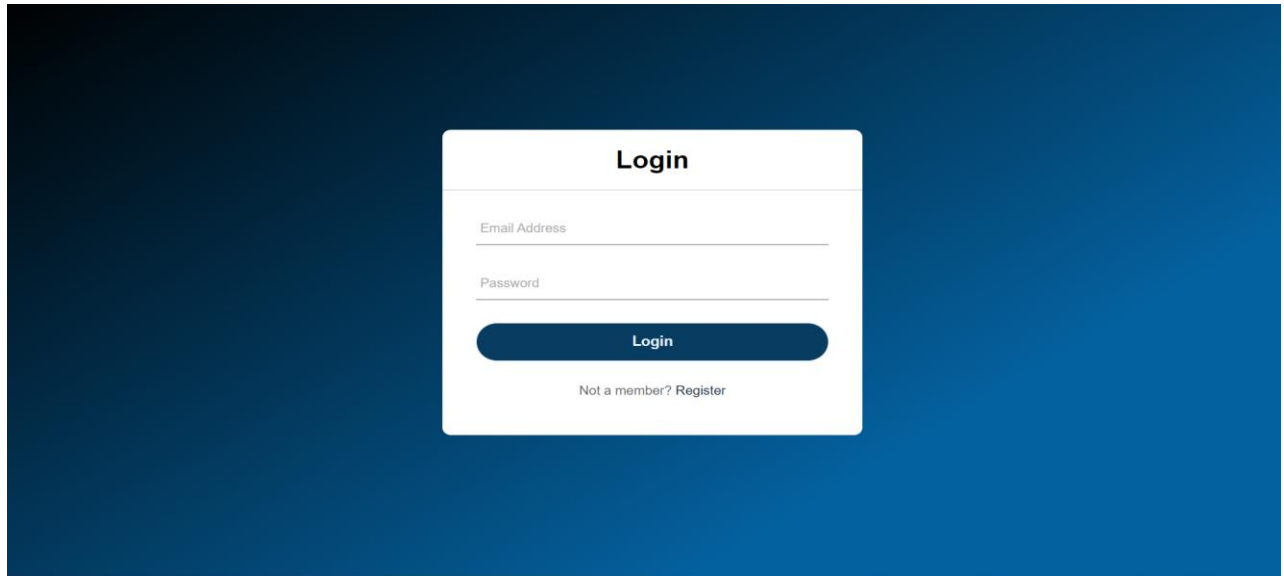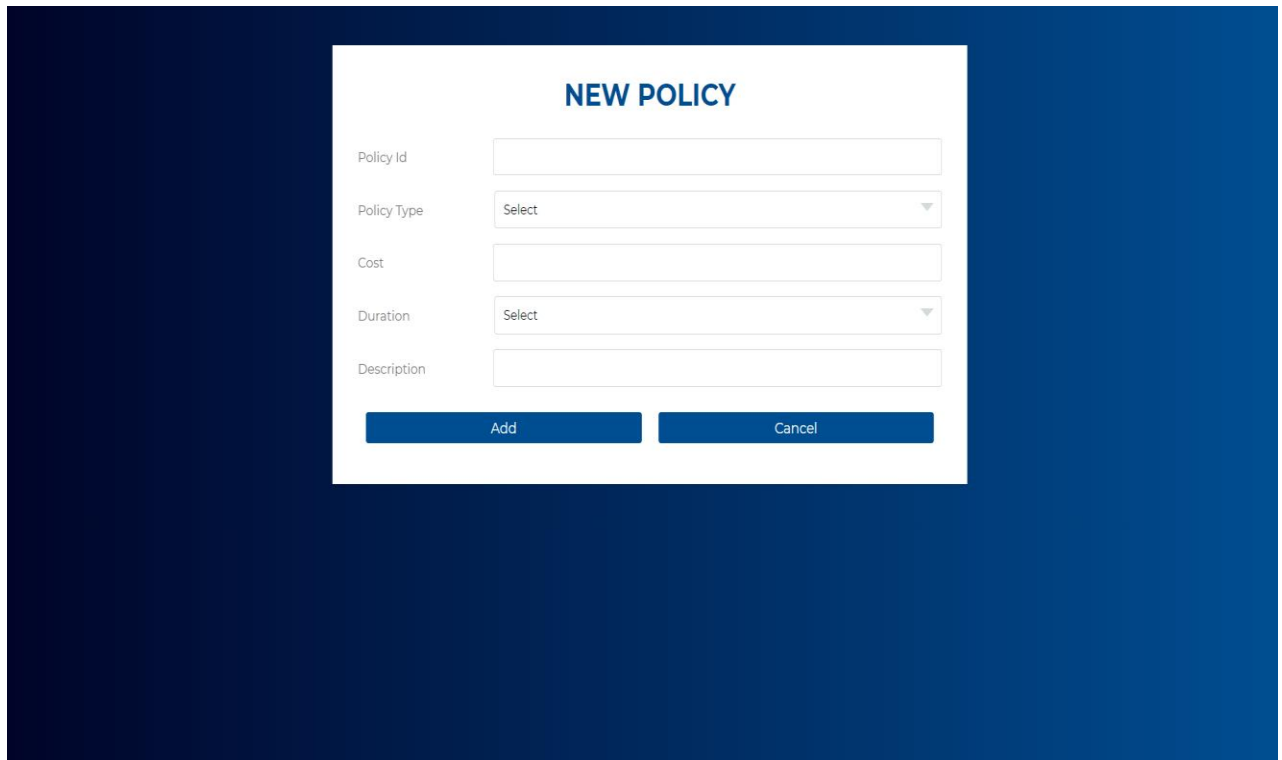
(C) Admin Dashboard page:-

This is the dashboard for the admin. This page contains links to many other pages like add new policy, add category etc.
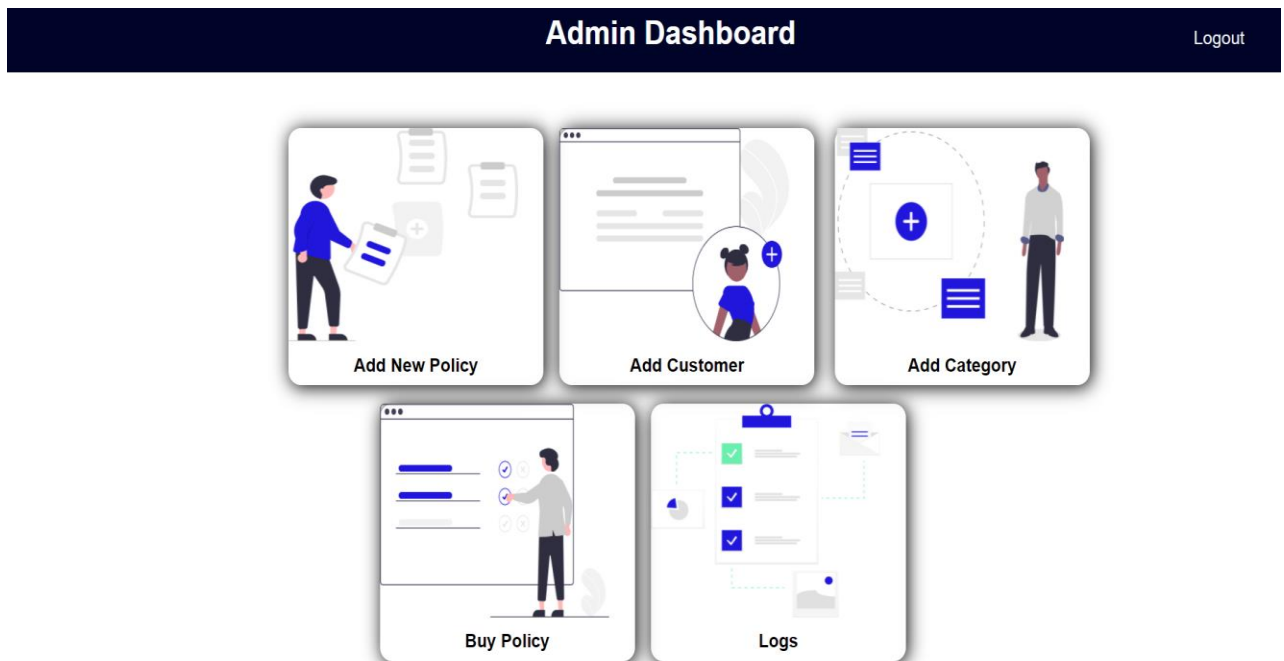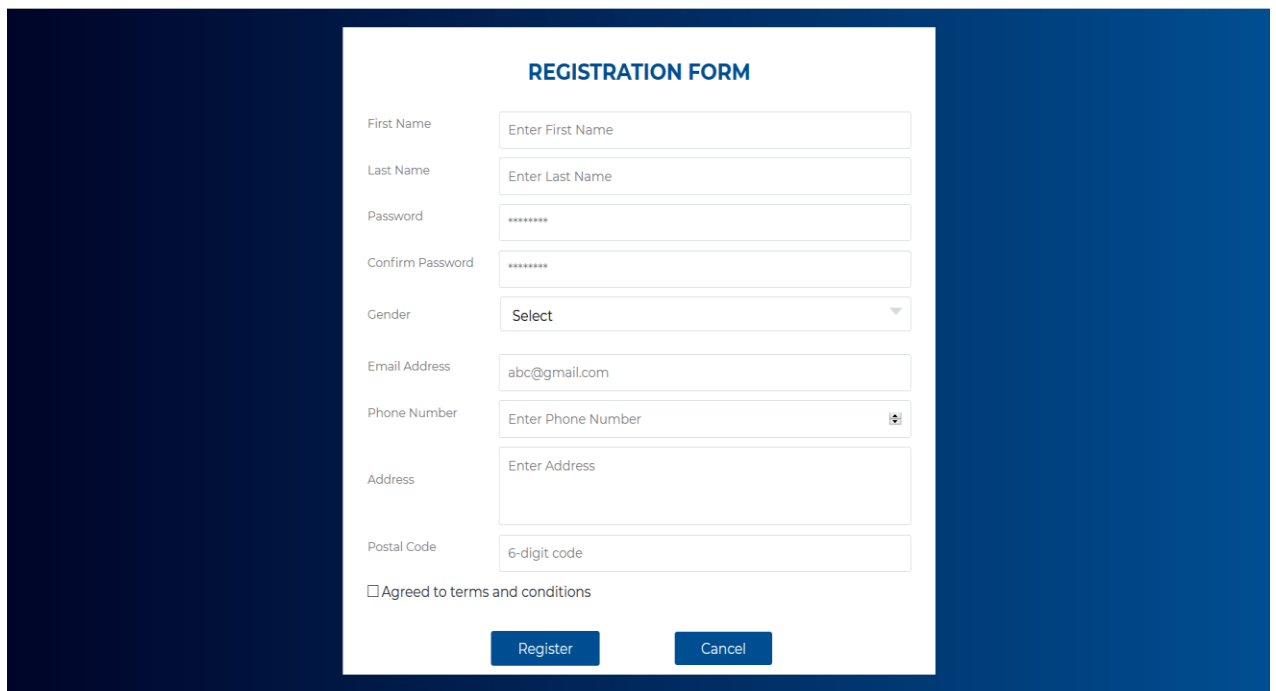
(D) New Policy page:-

Using this page basically Admin can add new policies.
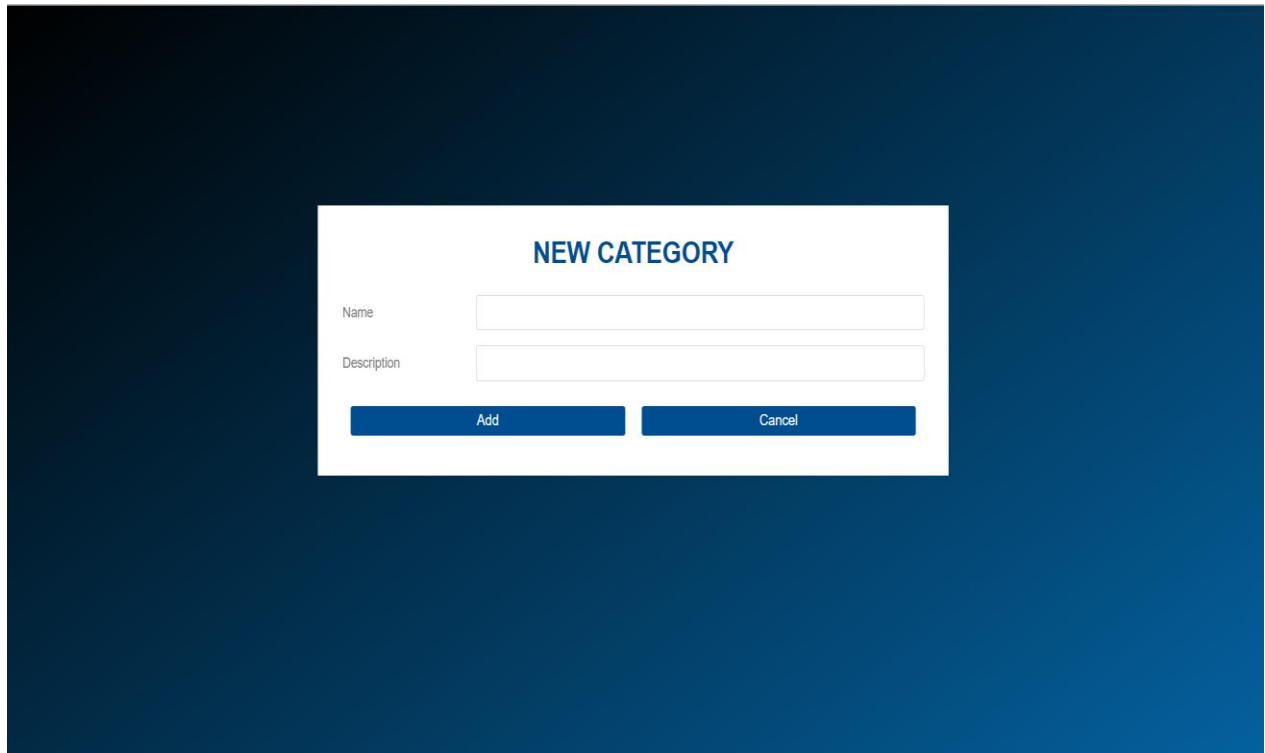
(E) Add New Customer page:-

This page is use to add new customers.

(F) Add New Category page:-

Using this admin can add new Category.

(G) Buy New Policy page:-

This page is for admin and customer to use to buy policy on the behalf of the customer.

(H) Report page:-

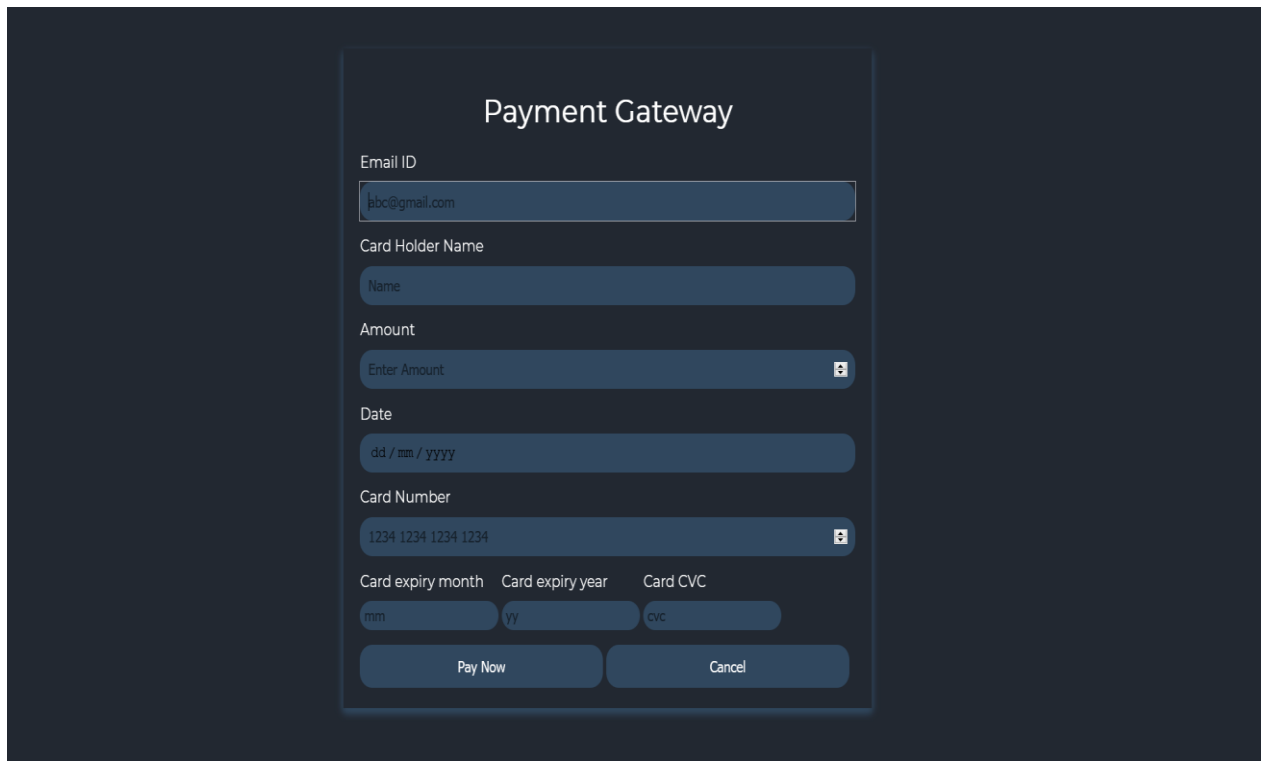This page maintains the record of the customer policies.

(I) Customer Dashboard page:-

This is the customer dashboard containing the pages that customer can access.
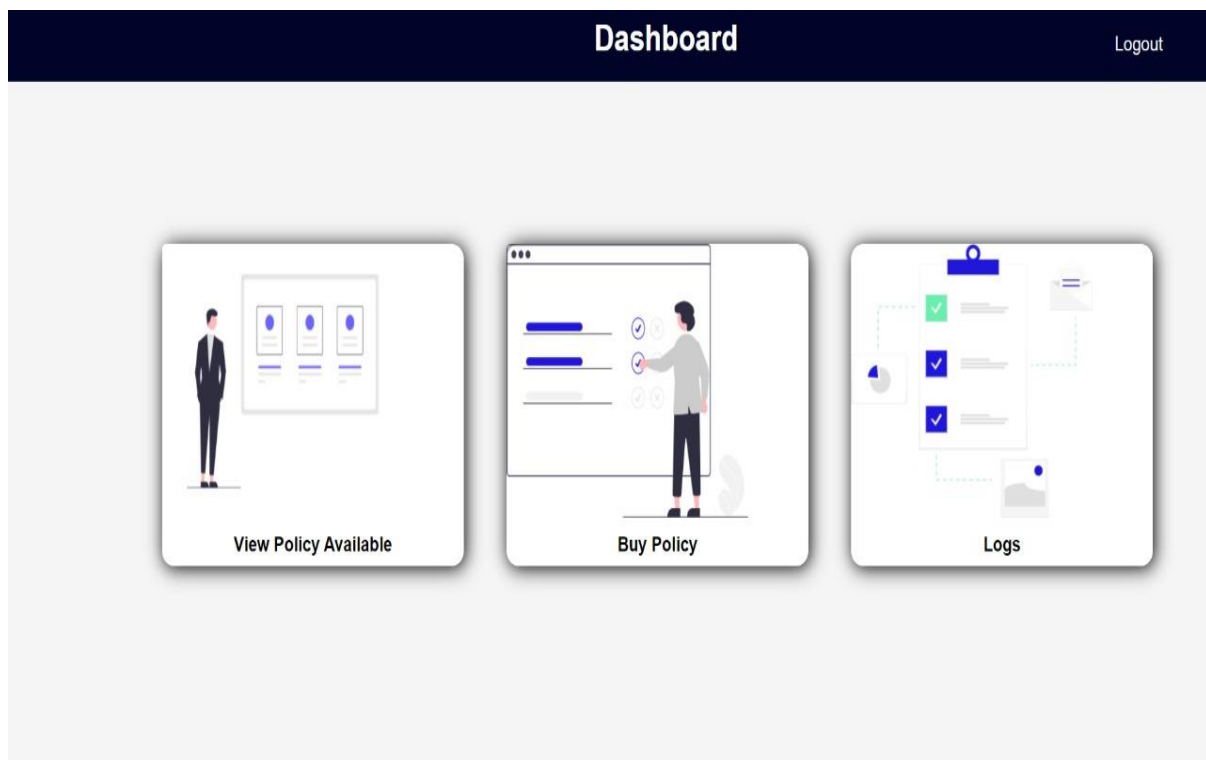
(K) Payment page:-

This is the payment page using which logged in person can make a payment.

(L) Logs Page:-

This page records the data of all the customers who had brought the policies.

(M) Contact Page:-

This the page containing the basic contact information.
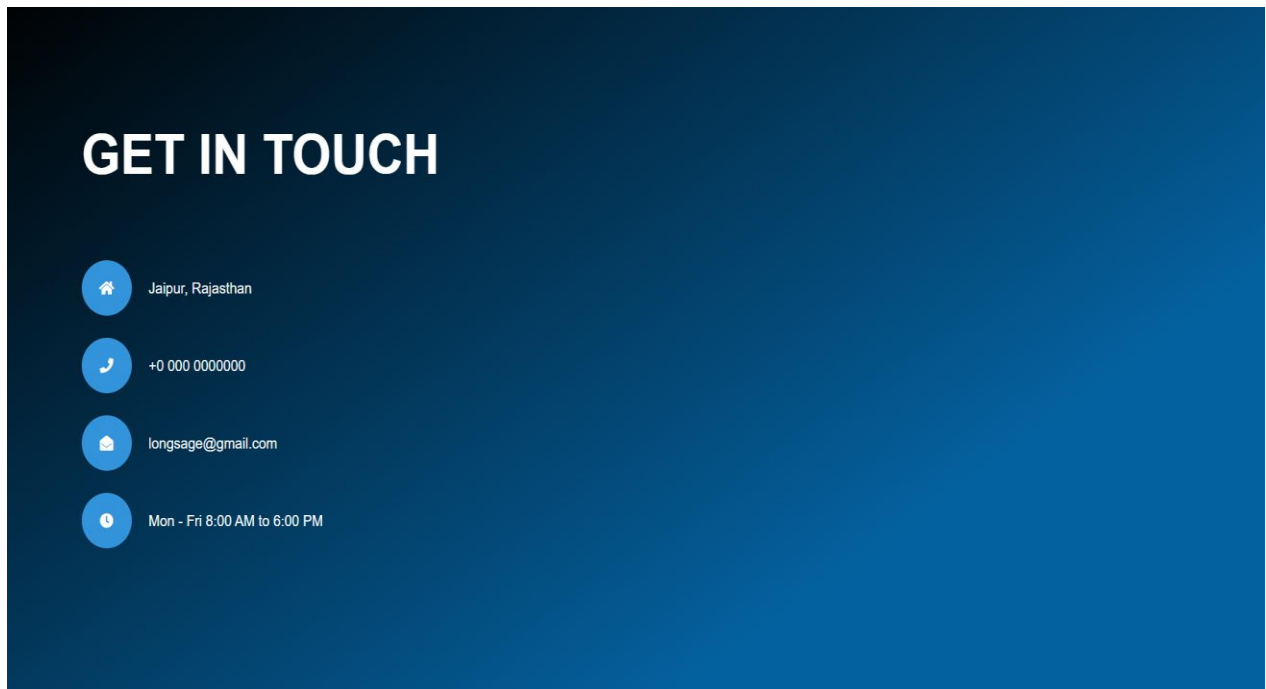
CHAPTER 7

APPLICATIONS

The application of our project 'Vehicle Insurance Management System' is like any other conventional management system i.e., we can store the details for the employees working in the company, clients of the company and also check the details of the policies registered. The user can also view a detailed policy data view. Our project can be implemented in daily life since mail is commonly used.

CHAPTER 8

CONCLUSION

In this project we have created one application which is easy to access and user friendly. The application keeps a backup of the vehicle insurance management data which includes their details.

Insurance is the spine of a country's chance control gadget. Risk is an inherent a part of our lives. The coverage vendors provide a number of merchandise to groups and people on the way to offer safety from chance and to ensure economic security. In this project, we must decorate the manner the records is saved and the manner we fetch the records from the database. The time required to get right of entry to records has been reduced. In the prevailing gadget, unpaid and paid charges are saved in one table, which in proposed gadget are in separate tables. So, every time the admin wishes to fetch the records for the paid and unpaid charges the time required to sort and fetching records is saved.

CHAPTER 9

FUTUTE ENHANCEMENT

In this, application keeps a backup of the vehicle insurance management data which includes their details. Here we assist with the design, planning and management of a client's insurance.

- ✓ For future of this project, we can do the same thing for separating policies which are running and which are lapsed.
- ✓ The login for admin and customer can be created to protect the data using mail feature while registering and doing payment.
- ✓ Password is secured but might be customer forgets it then have to set new from mailing feature so it has to be added for that.
- ✓ Conditions related to Date and Policies need to enhanced in future.
- ✓ To convert WebApp into MobileApp.

Further we will modify the application by adding external features like Vehicle services and also we will make planning and management of client's insurance wherever they require worldwide.

CHAPTER 10

REFERENCES

<u>The Following are the references referred by us in building this project:-</u>

[1] https://www.w3schools.com/php/DEFAULT.asp

[2] https://www.geeksforgeeks.org/sql-tutorial/

[3] https://www.geeksforgeeks.org/php-tutorials/?ref=lbp

[4] https://www.acko.com/articles/general-info/types-of-insurance/

[5] https://www.kotak.com/en/personal-banking/insurance/life-insurance.html

[6] https://dashboard.stripe.com/login?redirect=%2Fsettings%2Fuser

[7] https://www.php.net/manual/en/function.mail.php

[8] https://stackoverflow.com/questions/1032213/how-do-i-send-an-email-with-php

[9] https://www.geeksforgeeks.org/comparing-two-dates-in-php/

[10] https://sites.google.com/site/ignoubcafinalyearprojects/insurance-asp-net-management-java-system-php-project-mca-report-bca-documentation

[11] https://www.youtube.com/watch?v=abZrEH7B0-s&feature=youtu.be

[12] Database Systems Models, Languages, Design and Application Programming, RamezElmasri and Shamkant B. Navathe, 7th Edition, 2017, Pearson.