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DBMS Mini Project Report On

"ONLINE BIKE RENTAL MAMAGEMENT SYSTEM"

Submitted in Partial fulfilment of the Requirements for the V Semester of the Degree of

Bachelor of Engineering

In

Artificial Intelligence & Machine Learning

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CERTIFICATE

Certified that the DBMS Mini Project work entitled "ONLINE BIKE RENTAL MANAGEMENT SYSTEM" has been carried out by RAIHAN SHARIFF P (1CE21AI013), SYED ARHAN (1CE21AI017) AND SYED MOHAMMED SHAH (1CE21AI019) a bonafide student of City Engineering College in partial fulfilment for the award of Bachelor of Engineering in Artificial Intelligence & Machine Learning of the Visvesvaraya Technological University, Belgaum during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. DBMS Mini Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

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ABSTRACT

This paper introduces an innovative online motorcycle rental platform designed to revolutionize the motorcycle rental industry by addressing various challenges faced by users. With the increasing demand for convenient and flexible transportation options, motorcycle rental services have emerged as a popular choice for tourists, travellers, and locals alike. However, existing online platforms often fall short in providing a seamless and satisfactory rental experience.

The proposed platform aims to bridge this gap by offering a comprehensive solution that encompasses user-friendly interface design, transparent pricing structures, diverse motorcycle options, robust safety measures, efficient rental processes, and responsive customer support.

At the forefront of the platform's design is a user-friendly interface that ensures easy navigation and seamless booking experiences. By simplifying the search and reservation process, users can quickly find and secure the motorcycle that best suits their needs, whether it be for city commuting, touring, or adventure riding.

Efficiency is another hallmark of the platform, with streamlined rental processes that minimize administrative overhead and paperwork. Through seamless online transactions and digital documentation, users can complete the rental process swiftly, saving time and effort.

In conclusion, the proposed online motorcycle rental platform represents a significant advancement in the industry, offering a comprehensive solution that prioritizes user convenience, safety, transparency, and satisfaction. By addressing the inherent challenges faced by users, the platform seeks to redefine the motorcycle rental experience, making it more accessible, reliable, and enjoyable for all.

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this Project report would be completed only with mention of people who made it possible, whose support rewarded our effort with success. First and fore most we would like to thank GOD, the Almighty for being so merciful on me.

We have a great pleasure in expressing my deep sense of gratitude to founder Chairman, Dr. K.R. Paramahamsa for having provided me with a great infrastructure and well-furnished labs for successful completion of my project.

We express our sincere thanks and gratitude to our Principal **Dr. S Karunakara** for providing me all the necessary facilities for successful completion of my project.

I would like to extend my special thanks to **Dr. Vagdevi** HOD, Department of AIML, for her support and encouragement and suggestions given to me in the course of my project work.

I am grateful to my guide **Jayashree ma'am**, Professor, Department of AIML, City Engineering College, Bengaluru for her unfailing and constant motivational & timely help, encouragement and suggestion, given to me in the course of my project work.

Last but not the least, I wish to thank all the teaching & non-teaching staffs of department of Computer Science and Engineering, for their support, patience and endurance shown during the preparation of this project report.

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TABLE OF CONTENT

Chapters	Title	Page No
1	INTRODUCTION	8
	1.1 Overview	8
	1.2 Objective	9
	1.3Problem Statement	10
	1.4 Existing System	11
	1.5 Proposed System	12
2	REQUIREMENT ENGINEERING	
	2.1 Xampp Server	13
	2.2 Text Editor/SQL	
	2.2 Google Chrome Web Browser	13
3	DESIGN AND METHODOLOGY	
	3.1 Methodology	14
	3.2 Data base design	15
	3.3 Schema diagram	15
	3.4 E R diagram	17
	3.5 Output design	19
4	IMPLEMENTATIONS	
	4.1 Hardware Requirements	
	4.2 Software Requirements	
5	RESULTS	
	5.1 Screenshots	21
6	CONCLUSIONS	
	6.1 References and Conclusion	25

LIST OF FIGURES

> 1.1	Registration
>1.2	Login
≽1.3	Dashboard
>1.4	Manage Vehicles
≻1.5	Manage Brands
≻1.6	Manage Testimonials
>1.7	User Registration
≻1.8	User Login
>1.9	User Booking

Chapter-01

INTRODUCTION CHAPTER 1

_1.1 OVERVIEW

An online motorcycle rental platform is a digital marketplace that facilitates the rental of motorcycles through a website or mobile application. These platforms cater to a diverse range of users, including tourists, travellers, commuters, and motorcycle enthusiasts, offering them a convenient and flexible means of accessing motorcycles for various purposes.

At the core of an online motorcycle rental page is a user-friendly interface designed to simplify the rental process and enhance the overall user experience. Through intuitive navigation and easy-to-use search functions, users can browse through a comprehensive inventory of motorcycles, explore detailed descriptions and specifications, and select the bike that best suits their needs.

One of the key advantages of online motorcycle rental platforms is the transparency they offer in terms of pricing and rental terms. Users can view clear and upfront rental rates for each motorcycle model, along with any additional fees or charges for optional services such as insurance coverage, helmet rentals, or GPS navigation systems. This transparency helps users make informed decisions and avoid unexpected costs during the rental process.

Safety is paramount in motorcycle rentals, and online platforms prioritize this aspect by implementing strict safety measures and guidelines. Mandatory helmet rentals, comprehensive insurance options, and safety gear recommendations are common features aimed at promoting responsible riding practices and ensuring user safety throughout the rental period.

In summary, online motorcycle rental pages offer a convenient, transparent, and efficient way for individuals to access motorcycles for various purposes. By providing a user-friendly interface, transparent pricing, strict safety measures, efficient rental processes, responsive customer support, and leveraging technology, these platforms aim to redefine the motorcycle rental experience, making it more accessible, reliable, and enjoyable for all users.

1.2 OBJECTIVE

- 1. **Convenience:** Provide users with a convenient platform to browse, select, and rent motorcycles from anywhere at any time, eliminating the need for physical visits to rental shops.
- 2. **Accessibility:** Make motorcycle rental accessible to a wider audience, including tourists, travellers, and locals, by offering an easy-to-use online interface.
- 3. **Variety:** Offer a diverse range of motorcycle options to cater to different preferences and needs, ensuring that users can find the right motorcycle for their intended use, whether it's for touring, commuting, or adventure riding.
- 4. **Transparency:** Ensure transparency in pricing, rental terms, and conditions, enabling users to make informed decisions and avoid surprises during the rental process.
- 5. **Safety:** Prioritize user safety by providing information on proper riding gear, maintenance checks, and safety guidelines, and offering optional insurance coverage for added peace of mind.
- 6. **Customer Service:** Deliver excellent customer service through responsive support channels, addressing user inquiries, concerns, and issues promptly and effectively.
- 7. **Efficiency:** Streamline the rental process to minimize paperwork and administrative tasks for both users and rental operators, enhancing efficiency and reducing turnaround time.
- 8. **Feedback:** Collect user feedback and reviews to continually improve the rental experience, address any shortcomings, and enhance customer satisfaction.
- 9. **Expansion:** Expand the network of rental locations to serve more regions and destinations, increasing accessibility and convenience for users worldwide.
- 10. **Sustainability**: Promote environmentally friendly practices such as offering electric motorcycles or supporting eco-friendly initiatives, aligning with the growing demand for sustainable transportation options.

1.3 PROBLEM STATEMENT

As the demand for sustainable transportation options continues to rise, there's a growing need for efficient and user-friendly online bike rental platforms. Our current platform faces several challenges that hinder user experience and limit its potential for growth. These challenges include:

- 1. **User Onboarding Complexity:** The current registration and onboarding process is cumbersome, requiring users to fill out extensive forms and provide unnecessary information, resulting in a high drop-off rate.
- 2. **Limited Bike Selection:** Our platform offers a limited selection of bikes, restricting users' choices and potentially leading to dissatisfaction if their preferred bike type or size is unavailable.
- 3. **Inadequate Reservation Management:** The reservation system lacks flexibility, making it difficult for users to modify or cancel bookings easily. This leads to frustration and may discourage repeat usage.
- 4. **Poor User Interface and Navigation:** The website's interface is outdated and difficult to navigate, resulting in a subpar user experience. Users struggle to find relevant information, leading to frustration and abandonment.
- 5. Lack of Integration with Payment Gateways: Our platform does not support a variety of payment methods, limiting accessibility for users who prefer alternative payment options such as digital wallets or cryptocurrencies.
- 6. **Absence of Feedback Mechanism:** There is no effective feedback mechanism in place for users to share their experiences or report issues, hindering our ability to address concerns and improve the platform.
- 7. **Limited Geographic Coverage**: Our platform operates in only a few select regions, limiting our potential user base and growth opportunities.
- 8. **Inadequate Customer Support:** The current customer support system is slow and unresponsive, leaving users with unresolved issues and tarnishing the platform's reputation.

Addressing these challenges requires a comprehensive overhaul of our online bike rental platform, focusing on optimizing user experience, expanding bike selection, improving reservation management, enhancing website design and navigation, integrating with diverse payment gateways, implementing a robust feedback mechanism, expanding geographic coverage, and enhancing customer support. By tackling these issues head-on, we can position our platform as a leading provider of online bike rental services, catering to the growing demand for sustainable transportation solutions.

Dept. of AIML 2023-2024 Page 1

Overall cost reduction

- o Cuts down paper costs as all the data are computerized.
- o No separate costs for setting up physical servers.

Data accuracy

- o Removes human errors.
- o Alerts when there's a shortage of stock.

Data security

- o Helps to keep customer's records private.
- o Restricts access through role-based access control.

Revenue management

- o Makes daily auditing simple.
- o Helps with statistics and other financial aspects

ADVANTAGES

- The system automates the manual procedure of managing rental and recording activities.
- Administrators can view their bookings and take action on them easily.
- It even generates an instant bill.
- The system is convenient and flexible to be used.
- •It saves their time, efforts, money and resources.

DISADVANTAGES

- Requires large database.
- •The admin has to manually keep updating the information by entering the details in the system.
- Need Internet connection

1.4 Existing system

The existing system of a Bike Rental Management System (DBMS) varies widely depending on the level of organization, resources, and technological infrastructure available. Here's an overview of the typical components and characteristics of existing hospital database management systems:

Manual Systems:

In some cases, bike rental related data is managed manually using traditional methods such as paper records, spreadsheets, and offline databases. This approach lacks centralization, scalability, and efficiency, making it challenging to maintain data accuracy, accessibility, and consistency

Fragmented Databases:

Many rental organizations, and governing bodies maintain fragmented databases to store bike and customer related data, including information, statistics, details, and bookings. However, these databases often operate in isolation, leading to data silos and interoperability issues.

• Specialized Software:

Some rental organizations and teams utilize specialized software applications or custombuilt solutions to manage vehicle rental data. These systems may offer basic functionalities such as bike listing and management, bike booking and delivery, and analytics.

Online Platforms and Websites:

Several online platforms and websites provide vehicle rental related information, including bike profiles, statistics, and rental opportunities and booking. These platforms serve as valuable sources of data for fans, journalists, analysts, and stakeholders.

• Data Providers:

Commercial data providers offer rental data feeds and APIs (Application Programming Interfaces) that allow organizations to access real-time and historical bike/vehicles data for various purposes, including analytics, research, and content creation. These data providers aggregate data from multiple sources, including media partners, and third-party vendor etc.

1.5 Proposed system

This Bike Rental Management System is a self-contained system that manages Activities of the customers who wants bikes on rent. Due to improperly managed details offline rental portals faces quite a lot of difficulties in accessing past data as well as managing present data.

The fully functional automated Online Bike Rental Management System which will be developed through this project will eliminate the disadvantages caused by the manual system by improving the reliability, efficiency and performance.

The usage of a database to store bike, booking, vehicles' availability details etc. will accommodate easy access, retrieval, and search and manipulation of data. The access limitations provided through access privilege levels will enhance the security of the system. The system will facilitate concurrent access and convenient management of activities of the booking process.

PURPOSE:

This software will help the company to be more efficient in registration of their customers and manage bookings, demands of the customer. It enables admin to view and modify booking schedules by confirming or cancelling the bookings. The purpose of this project is to computerize all details regarding bike rental and management.

SCOPE:

The system will be used as the application that serves many foods delivery, organizations that deliver goods. The intention of the system is to increase the number of customers that can be provided with bikes and managed properly. If the rental management system is file based, admins of the rental organizations have to put much effort on securing the files. They can be easily damaged by fire, insects and natural disasters. Also, could be misplaced by losing data and information.

Chapter-02

CHAPTER 2

REQUIREMENT ENGINEERING

2.1 SOFTWARE AND HARDWARE TOOLS USED

2.1.1 HARDWARE REQUIREMENTS

- Processor: Intel PentiumT4200/ Intel Core Duo 2.0 GHz / more
- RAM: Minimum 1 GB RAM capacity
- Hard disk: Minimum 40 GB ROM capacity
- Cache Memory: L2-1 MB
- GPU: Intel HD Graphics

2.1.2 SOFTWARE REQUIREMENT

- Front End: PHP (Hypertext preprocessor)
- Back End: WAMPP server, MySQL
- Operation System: Windows 7 Or Windows 8.1 Or Windows 10
- Client side: CSS (cascading Style sheet)

CHAPTER 3

DESIGN AND METHODOLOGY

Our application contains two modules – the admin module and the user module. Our application will not only help the admin to preview the monthly and/or yearly data but it will also allow them to edit, add or update records. The software will also help the admin to monitor the bookings made by the customers and generate confirmations for the same. The admin will be able to manage and update information about bikes. The user module can be accessed by both the admins and the customers. The admin can confirm and/or cancel bookings. The admins can even add descriptions for their bikes/vehicles using our application. The customer will be able to apply for the booking of their desired bike and make transaction for the same, and can even cancel bookings with the same. They can track details about the previous transactions made by them.

User-Friendly Interface:

We'll make sure that when admins and customers use the system, it feels easy and natural. Think of it like arranging things in a way that makes sense to everyone.

Booking Appointments Made Simple:

Customers will be able to book bikes/vehicles online hassle-free, just like booking a movie ticket. And for admins, managing those bookings will be as easy as checking your calendar app.

Registering Users and Keeping Records:

When users register, we'll guide them through a simple form online, like filling out basic information on a website. Behind the scenes, we'll keep everything organized and secure using the XAMPP server and phpMyAdmin.

Getting Things Done Faster:

We'll automate routine tasks, so it's like having a helpful assistant taking care of the small stuff. That way, everyone can focus on what really matters.

Quick Appointment Lookup:

Admins will have access to a quick search feature that allows them to look up customers' bookings efficiently, similar to using a search bar in a web browser.

Efficient Navigation:

We'll design the interface with intuitive navigation menus and buttons so that users can easily find what they're looking for without getting lost in a maze of options.

Always Getting Better:

We'll keep an eye on things in the background, like having a watchful guardian. And whenever there's a suggestion or idea, we'll listen and make adjustments to make sure everything runs smoother each day.

DATABASE DESIGN

The data in the system has to be stored and retrieved from database. Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage

They are structured and put together to design the data storage and retrieval system

A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently.

The general objective is to make database access easy, quick, inexpensive and flexible for the user.

Relationships are established between the data items and unnecessary data items are removed. Normalization is done to get an internal consistency of data and to have minimum redundancy and maximum stability.

This ensures minimizing data storage required, minimizing chances of data inconsistencies and optimizing for updates. The MS Access database has been chosen for developing the relevant databases

RELATIONAL SCHEMA

The term "schema" refers to the organization of data as a blueprint of how the database is constructed (divided into database tables in the case of relational databases).

The formal definition of a database schema is a set of formulas (sentences) called integrity constraints imposed on a database.

A relational schema shows references among fields in the database. When a primary key is referenced in another table in the database, it is called a foreign key. This is denoted by an arrow with the head pointing at the referenced key attribute.

A schema diagram helps organize values in the database. It also gives an idea of what order the tables should be created in.

The following diagram shows the schema diagram for the database

Chapter-03

SCHEMA DIAGRAM:

```
Bookings
    Customers
                              Bikes
                                                                              Payments
                        | bike_id
                                          +--->| booking_id
customer_id
                                                                 +--->| payment_id
                                                customer_id
                        | bike_type
                                                                       payment_amt |
name
                   +--->| rental_price
                                               bike_id
| contact_info |
                                                                      | payment_date |
rental_history
                        availability
                                               | start_date
                                                                     +-----+
                                           +--->| end_date
+-----+
                        +----+
                                               total_cost
                                               <del>------</del>
```

ER DIAGRAM

An entity–relationship model is usually the result of systematic analysis to define and describe what is important to processes in an area of a business. An E-R model does not define the business processes; it only presents a business data schema in graphical form

It is usually drawn in a graphical form as boxes (entities) that are connected by lines (relationships) which express the associations and dependencies between entities.

An ER model can also be expressed in a verbal form,

for example: one building may be divided into zero or more apartments, but one apartment can only be located in one building. Entities may be characterized not only by relationships, but also by additional properties (attributes), which include identifiers called "primary keys". Diagrams created to represent attributes as well as entities and relationships may be called entity-attribute-relationship diagrams, rather than entity-relationship models.

An ER model is typically implemented as a database. In a simple relational database implementation, each row of a table represents one instance of an entity type, and each field in a table represents an attribute type. In a relational database a relationship between entities is implemented by storing the primary key of one entity as a pointer or "foreign key" in the table of another entity.

There is a tradition for ER/data models to be built at two or three levels of abstraction. Note that the conceptual-logical-physical hierarchy below is used in other kinds of specification, and is different from the three-schema approach to software engineering.

While useful for organizing data that can be represented by a relational structure, an entity relationship diagram can't sufficiently represent semi-structured or unstructured data, and an ER Diagram is unlikely to be helpful on its own in integrating data into a pre-existing information system.

Three main components of an ERD are the entities the relationship between those entities, and the cardinality, which defines that relationship in terms of numbers. Cardinality notations

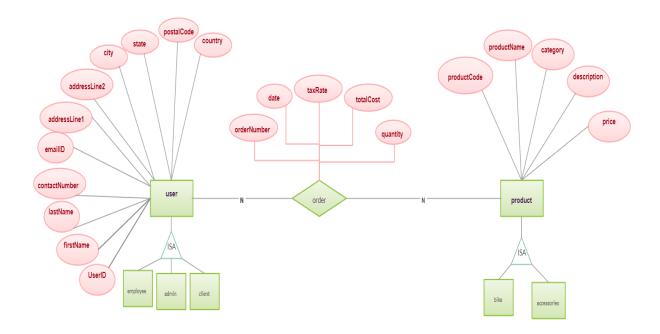
define the attributes of the relationship between the entities.

Cardinalities can denote that an entity is optional (for example, an employee rep could have no customers or could have many) or mandatory (for example, there must be at least one product listed in an order.

The four main cardinal relationships are:

- One-to-one (1:1) For example, each customer in a database is associated with one mailing address.
- One-to-many (1: N) For example, a single customer might place an order for multiple products. The customer is associated with multiple entities, but all those entities have a single connection back to the same customer.
- **Many-to-one** (**N: 1**) For example, many employees will have only one manager above them but one manager can have many employees below him.
- Many-to-many (M: N)- For example, at a company where all call centre agents work with multiple customers, each agent is associated with multiple customers, and multiple customers might also be associated with multiple agents.

ER DIAGRAM:



Chapter-04

IMPLEMENTATION

This chapter is to show the code involved in the creation of frontend interfaces and the code responsible for connecting these interfaces and the underlying database.

4.1 PHP/HTML/CSS (Front end)

PHP code to connect to Backend

Admin Login

```
if(\text{query-}>rowCount()>0)
$_SESSION['alogin']=$_POST['username'];
echo "<script type='text/javascript'> document.location = 'change-password.php'; </script>";
} else{
  echo "<script>alert('Invalid Details');</script>";
}
?>
<!doctype html>
<a href="https://en.wise.no-js"> 
<head>
                 <meta charset="UTF-8">
                 <meta http-equiv="X-UA-Compatible" content="IE=edge">
                 <meta name="viewport" content="width=device-width, initial-scale=1, minimum-scale=1, maximum-</pre>
scale=1">
                 <meta name="description" content="">
                 <meta name="author" content="">
                 <title>Bike Rental Portal | Admin Login</title>
                 k rel="stylesheet" href="css/font-awesome.min.css">
                 k rel="stylesheet" href="css/bootstrap.min.css">
                 k rel="stylesheet" href="css/dataTables.bootstrap.min.css">
                 k rel="stylesheet" href="css/bootstrap-social.css">
                 <link rel="stylesheet" href="css/bootstrap-select.css">
                 k rel="stylesheet" href="css/fileinput.min.css">
                 k rel="stylesheet" href="css/awesome-bootstrap-checkbox.css">
                 <link rel="stylesheet" href="css/style.css">
</head>
<body>
                 <div class="login-page bk-img" style="background-image: url(img/adminlogin0.jpg);">
                                   <div class="form-content">
                                                    <div class="container">
                                                                      <div class="row">
                                                                                       <div class="col-md-6 col-md-offset-3">
                                                                                                         <h1 class="text-center text-bold text-light mt-4x">ADMIN
LOGIN</h1>
                                                                                                         <div class="well row pt-2x pb-3x bk-light">
                                                                                                                           <div class="col-md-8 col-md-offset-2">
                                                                                                                                            <form method="post">
```

Bike Rental Management System

```
<label for="" class="text-uppercase text-sm">Your Username </label>
<input type="text" placeholder="Username" name="username" class="form-control mb">
                      <label for="" class="text-uppercase text-sm">Password</label>
                                                                  <input type="password"
placeholder="Password" name="password" class="form-control mb">
                                                                  <button class="btn btn-primary btn-block"</pre>
name="login" type="submit">LOGIN</button>
                                                          </form>
                                                   </div>
                                            </div>
                                    </div>
                             </div>
                      </div>
              </div>
       </div>
       <!-- Loading Scripts -->
       <script src="js/jquery.min.js"></script>
       <script src="js/bootstrap-select.min.js"></script>
       <script src="js/bootstrap.min.js"></script>
       <script src="js/jquery.dataTables.min.js"></script>
       <script src="js/dataTables.bootstrap.min.js"></script>
       <script src="js/Chart.min.js"></script>
       <script src="js/fileinput.js"></script>
       <script src="js/chartData.js"></script>
       <script src="js/main.js"></script>
</body>
</html>
```

Logout Page

Admin Logout

4.2 TRIGGERS

By using triggers transactions are easy to store in a database and can be used consistently if there are future updates to the database.

- OWhen a change happens in a database a trigger can adjust the change to entire database.
- OIt controls on which updates are allowed in a database.
- OTriggers help in automatic execution of certain commands thus eliminating explicit call for a procedure.

Project Deletelog

INSERT INTO splog

VALUES(OLD.usn,OLD.password,'deleted',NOW()) Insertlog

INSERT INTO splog VALUES(NEW.usn,NEW.password,'inserted',NOW())

Updatelog

INSERT INTO splog VALUES(NEW.usn,NEW.password,'updated',NOW())

The above-mentioned triggers are triggered when a new entry is made to the slogin table or if an existing entry is deleted or updated from the table in the database.

When triggered the newly added or removed slogin table attributes are stored in a table by the name slogs.

4.2Stored Procedure

A stored procedure is a segment of declarative SQL statements stored inside a database catalogue. It is a subroutine available to applications that access a relational database management system. Such procedures are stored in database data dictionary.

Advantages of Stored Procedures

OMaintainability

- **O**Security
- One time one place processing
- OUtilization set based processing
- OIsolation of business tool

Stored Procedures in Project

CREATEPROCEDURE procedure

AS

BEGIN

SELECT FirstName ,LastName ,USN, SemFROM studentdetails

END

The above-mentioned stored procedure is used to display Student details from the database. It is repeatedly used where ever student details have to be displayed form the Placement Management System.

OUTPUT DESIGN

Designing computer output should proceed in an organized, well throughout manner; the right output element is designed so that people will find the system whether or executed. When we design an output, we must identify the specific output that is needed to meet the system. The usefulness of the new system is evaluated on the basis of their output. Once the output requirements are determined, the system designer can decide what to include in the system and how to structure it so that require output can be produced. For the proposed software, it is necessary that the output reports be compatible in format with the existing reports.

The output must be concerned to the overall performance and the system's working, as it should. It consists of developing specifications and procedures for data preparation, those steps necessary to put the inputs and the desired output, i.e. maximum user friendly. Proper messages and appropriate directions can control errors committed by users.

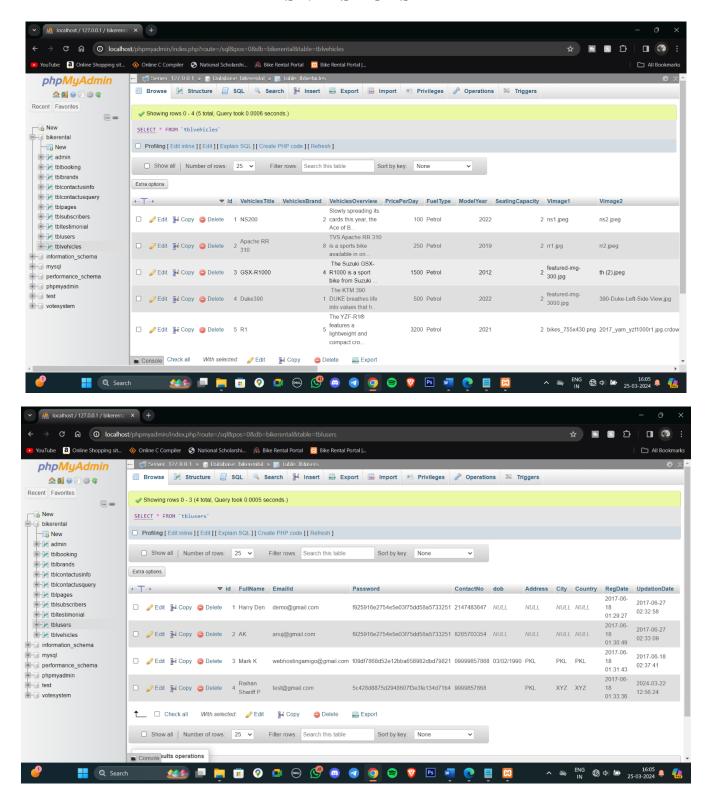
The output design is the key to the success of any system. Output is the key between the user and the sensor. The output must be concerned to the system's working, as it should. Output design consists of displaying specifications and procedures as data presentation. User never left with the confusion as to what is happening without appropriate error and acknowledges message being received. Even an unknown person can operate the system without knowing anything about the system.

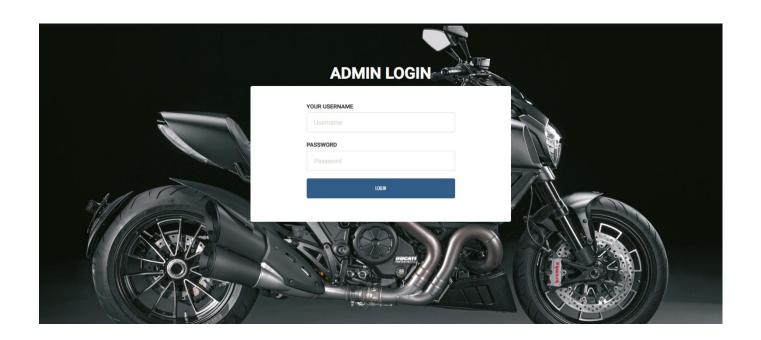
This project has mainly five views which displays the details for

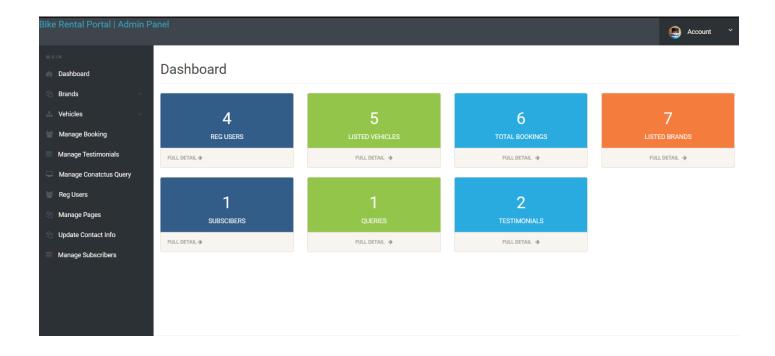
- ➤ Registered Users
- ➤ Listed Vehicles
- ➤ Total Bookings
- **≻**Listed Brands
- **≻**Queries
- **≻**Testimonials

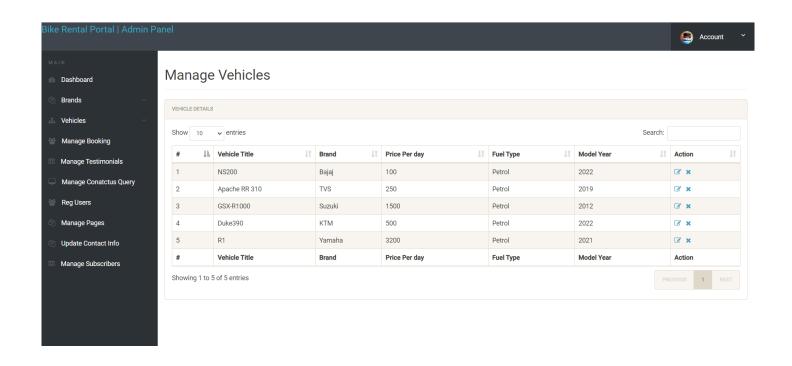
Chapter-05

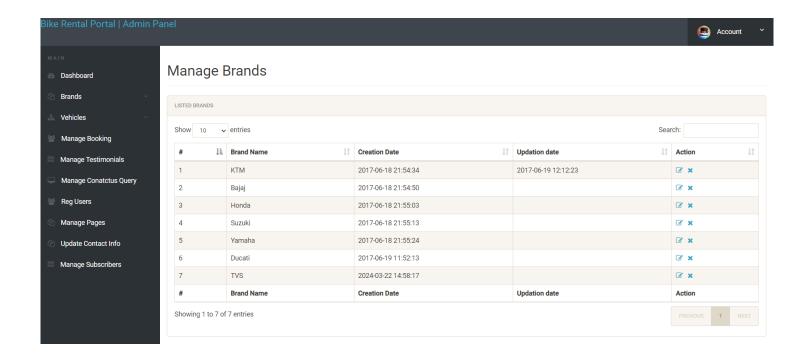
SNAPSHOTS

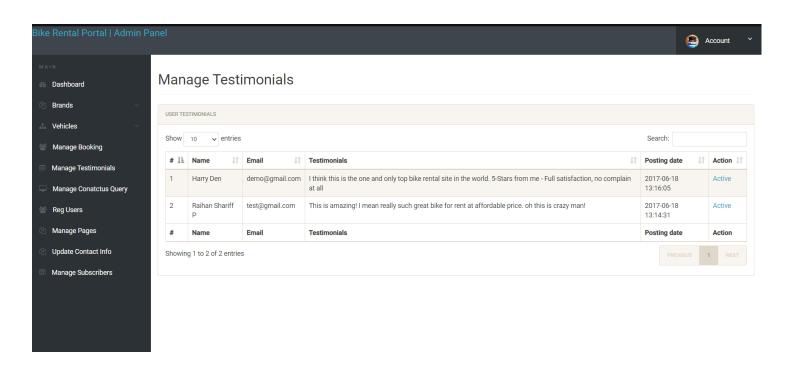


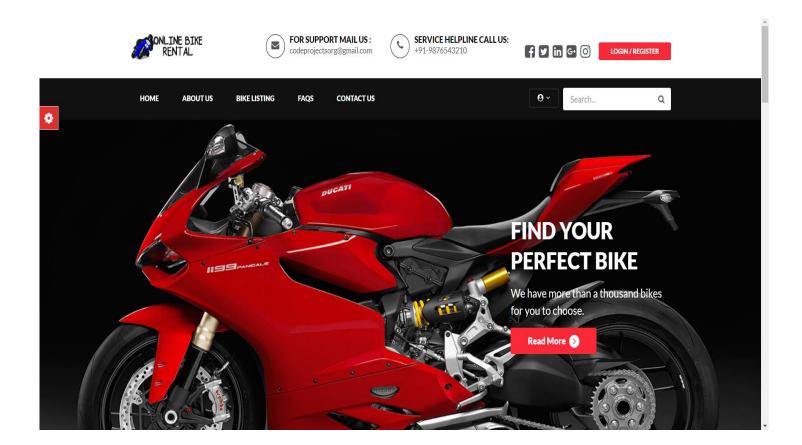












CHAPTER-6

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CONCLUSION:

Working on the project was an excellent experience. It helped us to understand the importance of planning, designing and implementation so far, we have learnt in our theory books. It helped us unleashing our creativity while working in a team. It also realized the importance of team working, communication as a part of this project

The project was successfully completed after a lot of efforts and work hours. This project underwent number of compiling, debugging, removing errors, making it bug free, adding more facilities in Hospital Management System and interactivity making it more reliable and useful.

This project focused that scheduling a project and adhering to that schedule creates a hard sense of time- management. It has also let us known that co-operative teamwork always produces effective results. The entire project has been developed and deployed as per the requirements stated by the user. It is found to be bug free as per the testing standards that are implemented.

There are also few features which can be integrated with this system to make it more flexible. Below list shows the future points to be consider:

• Getting the current status of Vehicle.

- Including a different module for renting, accepting user testimonials, accepting queries and much more.
- Including a Frequently Asked Questions Section. Finally, we like to conclude that we put all our efforts throughout the development of our project and tried to fulfil most of the requirements of the user.

DECLARATION

We, the student of 5th Semester B.E, in Artificial Intelligence & Machine Learning and

Engineering College, Bangalore, hereby declare that the project report entitled "ONLINE

BIKE RENTAL MANAGEMENT SYSTEM" is the bonafide record of the DBMS Mini

Project carried out at City Engineering College, Bangalore, and submitted in partial fulfilment

of the requirements for the award of Bachelor of Engineering in Artificial Intelligence

&Machine Learning of Visvesvaraya Technological University, Belgaum during the

academic year 2020-2021

We also declare that, to the best of our knowledge and belief, the work reported here does not

form the part of dissertation on the basis of which a degree or award was conferred on an earlier

occasion on this by any other student.

Date:

Place: Bangalore

RAIHAN SHARIFF P

(1CE21AI013)

SYED ARHAN (1CE21AI017)

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