**MECHANIC TRACKING SYSTEM**

A PROJECT REPORT

Submitted by

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**(Register No: 18CSE34)**

*in partial fulfillment of the requirement for the award of the degree of*

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

### Under the guidance of

**Dr. M. Venkatesh, MCA.,M.Phil.,Ph.D**

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### DEPARTMENT OF COMPUTER SCIENCE ST. XAVIER'S COLLEGE (AUTONOMOUS)

(Recognized as ‘College with Potential for Excellence’ by UGC) (Accredited by NAAC at A++ Grade with a CGPA of 3.66 out of 4 in IV Cycle)

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**Nov – 2020**

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**BONAFIDE CERTIFICATE**

This is to certify that the project work entitled **“MECHANIC TRACKING SYSTEM”** is the bonafide work of **RAMA CHANDRAN.S (18CSE34)** who carried out the project under my supervision and submitted during the academic year 2020-2021.

The Viva-Voce held on …………………

## INTERNAL EXAMINER EXTERNALEXAMINER

**CO-ORDINATOR**

**ACKNOWLEDGEMENT**

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### RAMA CHANDRAN.S

**18CSE34**

**Abstract**

Consider a situation where your vehicle got punctured suddenly when you are traveling. To repair the vehicle you need to find where the mechanic is and you need to bring him. This project will help you to solve this problem by listing all the mechanics available in the location in addition to other details like contact no, experience, etc. For the Emergency purpose, You can contact the mechanic via mobile no or you can directly bring your vehicle to the mechanic shop. You can also book the mechanic and he will repair your vehicle at your doorstep. In this website there will be two users customer who need to repair their vehicle and the mechanic who need to be registered in this website with all the details about him.

**1.INTRODUCTION**

**1.1 Project Definition:**

When we need a mechanic in a hectic situation like in night time or in an area which is new to us. we can reach out to a mechanic by calling him if we have the phone number or we need to go to the mechanic shop which is nearby. we cannot guarantee that whether the mechanic shop is opened at that time. This project or portal is used to resolve this problem. Through this project, we can see who are all the mechanics available in our current location, whether the mechanic shop is opened, and other details of the mechanic like years of experience, mechanic shop address, contact details of the mechanic, etc. Through this portal, you can also book the mechanic so that the mechanic will reach out to you at the doorstep or at the current location.

The Flow of this portal or project is first of all the users whether it is a mechanic or customer need to register in this portal by providing some basic details like name, email, password, address, etc. Then if the user is a customer he/she can book a mechanic from the list of mechanics while booking the user need to provide some basic details like vehicle name, type(two/four wheeler), model, repair description, etc. Then the mechanic will reach out to the customer. if the user is a mechanic then he can see what are the bookings available for him what is the repair description etc . The mechanic will also have an option to accept or reject the booking. The status of the booking can also be seen by both the customer and mechanic. For emergency purposes, the customer can directly contact the mechanic via email or mobilenumber.

**1.2 Project Description:**

This Project contains the following module

1. Customer Registration Module
2. Mechanic Registeration Module
3. Login Module
4. Mechanic Listing Module
5. Customer Details Updating Module
6. Mechanic Details Updating Module
7. Booking Module
8. Booking Indication Module

**1) Customer Registration module:**  
 Through this module customer will be able create an account in this portal by giving some details like name, age, phone no, email, password, address etc..

**2) Mechanic Registration module:**  
 Through this module mechanic will be able to create an account in this portal by giving some details related to him like name, age, phone no, email, password, mechanic shop address, experience, profile photo etc.

**3) Login Module:**  
 with the help of this module Mechanics/Customers will be able to login into the portal by giving some login credentials like email, password

**4) Mechanic Listing module:**  
 After a customer is registered or logged into the portal. The customer will be able to see all the mechanics who are available in his location. This module also has search functionality that helps the customer to list all the mechanics based on some filters like location, experience, etc.

**5) Customer details updating module:**  
 with the help of this module, customers will be able to change some of their details like name, age, phone no, address, etc.

**6) Mechanic details updating module:**  
 with the help of this module, mechanics will be able to change some of their details like name, age, phone no, mechanic shop address, experience, etc. These changes will be reflected in the mechanic listing module.

**7) Booking module:**  
 This module helps the customer to book a mechanic by giving some details like vehicle name, vehicle model, current location, etc.

**8) Booking indication module:**  
 For the customer, this module contains all the mechanics he booked and the details about the mechanic and for the mechanic, this module contains all the customers who booked him and the details about the customer.

**2.SYSTEM ANALYSIS**

**2.1 Existing System**

In the existing system, we use the traditional approach which is by asking someone the address of the mechanic shop, or if we have the number of the mechanic we can contact him directly. The drawbacks of the existing approach are

* what if the contacted mechanic is unavailable
* we need to take our vehicle to the mechanic shop which is a very tedious work or else
* We need to go to the mechanic shop and ask him to come to our location

**2.2 Proposed System**

The proposed system is designed in such a way that it will resolve all the major problems faced by the existing system. The main functionalities of the proposed system are

* You will have a list of mechanics and their contact details available for you.
* You can book your mechanic with a single click he will be available at your doorstep or in your current location
* You can check the status of your booking

**3.SYSTEM REQUIREMENTS**

**3.1 Hardware Used**

* Processor : Intel i5(3rd gen)
* RAM : 4gb
* HardDisk : 500gb
* Monitor : 15 inch LCD

**3.2 Software Used**

* Operating System : Windows 10 Pro
* Text Editor : Visual Studio Code
* Front End : HTML,CSS, Javascript
* BackEnd : PHP,Mysql
* Browser : Chrome (Version 88.0)
* Local web Server : XAMPP

**4.SYSTEM DESIGN**

**4.1 Database Design**

**Database Name** : mechanic\_tracking\_system

**1) Table Name** : customer\_details

**Purpose** : This table is used to store the details o the customer.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| COLUMN | TYPE | | SIZE | | CONSTRAINT | DESCRIPTION |
| c\_name | Varchar | | 100 | | Not null | To store the customer name |
| c\_email | Varchar | | 100 | | Primary key | To store the customer email |
| c\_password | Varchar | | 100 | | Not null | To store the customer password |
| c\_phone\_no | Int | | 10 | | Not null | To store the phone customer number |
| c\_door\_no | Varchar | | 5 | | Not null | To store the door number of the customer |
| c\_street\_name | Varchar | | 100 | | Not null | To store the street name of the customer |
| c\_city | Varchar | | 100 | | Not null | To store the city of the customer |
| c\_pincode | Int | | 6 | | Not null | To store the pin code of the customer |
| c\_state | Varchar | | 100 | | Not null | To store the state of the customer |
| c\_photo | Text | | - | | - | To store the profile photo of the customer |
| c\_vehicle\_name | Varchar | | 100 | | - | To store the customer’s vehicle name |
| c\_vehicle\_model | Varchar | | 100 | | - | To store the customer’s vehicle model |
| c\_vehicle\_type | | Varchar | | 50 | - | To store the vechicle is four or two wheeler |

**2) Table Name** : mechanic\_details

**Purpose** : This table is used to store the details of the mechanics.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLUMN | TYPE | SIZE | CONSTRAINT | DESCRIPTION |
| m\_name | Varchar | 100 | Not null | To store the name of the mechanic |
| m\_email | Varchar | 100 | Primary key | To store the email of the mechanic |
| m\_password | Varchar | 100 | Not null | To store the password of the mechanic |
| m\_phone\_no | Int | 10 | Not null | To store the phone number of the mechanic |
| m\_door\_no | Varchar | 10 | Not null | To store the door number of the mechanic |
| m\_street\_name | Varchar | 100 | Not null | To store the street name of the mechanic |
| m\_city | Varchar | 100 | Not null | To store the city of the mechanic |
| m\_pincode | Int | 6 | Not null | To store the pincode of the mechanic |
| m\_landmark | Text | - | - | To store the landmark of the machnic |
| m\_state | Varchar | 100 | Not null | To store the state of the mechanic |
| m\_photo | Text | - | - | To store the photo of the mechanic |
| m\_experience | Int | 3 | Not null | To store the experience of the mechanic |
| m\_opening\_time | Varchar | 20 | Not Null | To store the opening time of the mechanic shop |
| m\_closing\_time | Varchar | 20 | Not Null | To store the closing time of the mechanic shop |

**3) Table Name:** login\_details

**Purpose** : To store the login credentials of the users(Customer/mechanic).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLUMN | TYPE | SIZE | CONSTRAINT | DESCRIPTION |
| email | Varchar | 100 | Primary key | To store the users email |
| Password | Varchar | 100 | Not null | To store the passsword of the users |
| Role | Varchar | 50 | Not null | To store the role of the users |

**4) Table Name** : Booking\_details

**Purpose** : To store the booking\_details of the customer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLUMN | TYPE | SIZE | CONSTRAINT | DESCRIPTION |
| booking\_id | Int | 5 | Primary key | To store the id of the booking |
| c\_email | Varchar | 100 | Foreign key | To store the email of the customer |
| m\_email | Varchar | 100 | Foreign key | To store the email of the mechanic |
| booking\_address | Text | - | Not null | To store the current address of the customer |
| vehicle\_name | Varchar | 100 | Not null | To store the vehicle of the customer |
| vehicle\_model | Varchar | 100 | Not null | To store the model of the vehicle |
| vehilce\_type | Varchar | 100 | Not null | To store the type of the vehicle of the customer |
| repair\_description | Varchar | 100 | Not null | To store the repair description of the vehicle |
| booking\_Time | Timestamp | - | Not null | To store the booking time |
| booking\_status | Varchar | 20 | Not null | To store the status of the booking |