## SYNOPSIS ON

**VehiCare**

**IN PARTIAL FULFILLMENT OF**

**MASTER OF COMPUTER APPLICATION BY**

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**1.Introduction**

VehiCare is a smart solution designed to make managing vehicle services easy and efficient. If you've ever felt frustrated with the paperwork and delays at a service center, this system is the remedy. It's an all-in-one platform that simplifies how customers request service, how mechanics handle tasks, and how administrators keep everything running smoothly.

This system deals with the needs of customers, mechanics, and administrators by providing an efficient platform for managing service requests, assigning tasks to mechanics, and maintaining customer and mechanic profiles.

**2. Existing System and Need for System**

**2.1 Existing System:**

The existing system lacks a centralized platform for managing vehicle service requests, leading to manual and time-consuming processes. There is a need for a system that automates request approval, tracks service status, and facilitates seamless communication among customers, mechanics, and administrators.

2.2 Need for System:

VehiCare addresses the limitations of the existing manual processes. It introduces automation to enhance efficiency, reduce errors, and improve overall service center management. The system provides a user-friendly interface for customers, mechanics, and administrators to interact and manage their respective tasks efficiently.

**3. Scope and Objectives of System**

The scope of the VehiCare includes customer registration, service request submission, mechanic application and approval, request approval and assignment by the administrator, real-time status tracking, and feedback mechanisms.

The objectives are to streamline service operations, enhance communication, and provide a transparent and user-friendly experience.

**4. List of Modules/ Functionalities with description:**

Customer Module:

* Signup and Login
* Service Request Submission
* Status Tracking
* Invoice Details
* Feedback Submission
* Profile Management
* Live Tracking

Mechanic Module:

* Job Application
* Task Assignment
* Status Update
* Salary and Performance
* Feedback Submission
* Profile Management

Admin Module:

* Dashboard with Overview
* User Management (Customers and Mechanics)
* Service Request Management
* Mechanic Approval
* Invoice Management
* Feedback Review
* System Configuration

**5. System Requirement Specification (SRS):**

**5.1 Server-side Requirement:**

**Hardware Requirements:**

**Processor: Dual-core processor or higher**

**RAM: 4GB or more**

**Software Requirements:**

**Operating System: Windows**

**Database:** MongoDB

**Front End: HTML, CSS, JavaScript**

**Back End: Django (Python)**

**Software Development Tool: PyCharm/Visual Studio Code**

**5.2 Client-side Requirement:**

**Hardware Requirements:**

**Processor: Pentium 4 or equivalent**

**RAM: 2GB or more**

**Software Requirements:**

**Operating System: Windows**

**Browser: Google Chrome**

**6. Proposed System:**

**The proposed system is an integrated Vehicle Servicing System that automates service center operations. It provides a user-friendly interface for customers, mechanics, and administrators to perform their tasks efficiently. The system ensures real-time communication, automated task assignments, and streamlined management of service requests.**

**Key Features of the Proposed System:**

**1. User-Friendly Interface:**

**The system offers an intuitive and easy-to-navigate interface for customers, mechanics, and administrators.**

**Streamlined processes ensure that users can quickly perform tasks without unnecessary complexity.**

**2. Automated Service Request Processing:**

**Customers can submit service requests, including vehicle details and problem descriptions.**

**The system automates the approval process, ensuring swift responses from administrators.**

**3. Real-Time Task Assignment:**

**Mechanics receive real-time notifications for assigned tasks.**

**Administrators can efficiently assign tasks to mechanics based on their skills and availability.**

**4. Transparent Status Tracking:**

**Customers can track the status of their service requests in real-time.**

**Mechanics can update the status of a service request, providing transparency in the repair process.**

**5. Integrated Invoice Management:**

**Customers can view detailed invoices for the services provided.**

**Administrators have a centralized view of all service costs, facilitating financial management.**

**6. Comprehensive User Profiles:**

**Customers and mechanics can manage their profiles, including personal information and preferences.**

**Administrators have access to user profiles for effective system administration.**

**7. Feedback Mechanism:**

**Both customers and mechanics can provide feedback to administrators, fostering continuous improvement.**

**Administrators can review and respond to feedback for enhanced service quality.**

**8. Efficient Mechanic Salary Tracking:**

**Mechanics can easily track their salary information and performance.**

**Administrators have a clear overview of mechanic salaries and performance statistics.**

**7. Feasibility Study:**

**7.1 Technical Feasibility:**

**The system is technically feasible, leveraging widely used technologies like Django for efficient development and MongoDB for database management. The hardware requirements are within reasonable standards, and the software stack is well-established.**

**7.2 Economic Feasibility:**

**The system's development cost is justified by the anticipated benefits of increased efficiency, reduced manual errors, and improved customer satisfaction. The investment in hardware and software is reasonable and comes with the expected returns.**

**7.3 Operational Feasibility:**

**The system's operational feasibility is high, as it simplifies processes for customers, mechanics, and administrators. Training requirements are minimal due to the user-friendly interface, and the transition from the existing manual system to the proposed automated system is smooth.**