**Vehicle Service Management based on Django Python Application**

**ABSTRACT:**

        Regular vehicle servicing helps vehicle owners prevent unexpected vehicular malfunctions. Identifying vehicle problems at an early stage is essential before they’ll turn into significant issues. Vehicle owners tend to visit vehicle garages to enquire about vehicle servicing. Vehicle mechanics check the vehicle’s vital components and repair issues to ensure that they are in good shape and will not fail unexpectedly. The capstone project, “Auto Mart Application” will automate the operations and day-to-day transactions of the vehicle servicing garage. The system will electronically Streamline processes including managing vehicle service orders, keeping maintenance records, managing customer records, and transaction records, servicing updates, and billing.

**Software Requirements:**

Front-End  :  HTML5, CSS3, and JS  
Back-End   :  Python, MySQL 5.5  
Tool            :   XAMPP 7.4 – 64 bit  
Framework : Django 3.2.8

**Existing system**

* In an existing system, there are users who have their own mechanic database which is very minimal. And also they have no idea if their vehicles broke down or had any mechanical issues in remote locations or any long distant locations from their known mechanic shops.
* Users with the contacts of people at a particular place may look for help from them only if they are ready to do.
* It is not possible to find out a suitable mechanic for the desired service at remote locations. The only way they have is to look for any other transportation at the time of issue and then they need to get a mechanic to the particular location at which they have left their vehicle.

**Proposed System**

* Here the user of the On Auto Mart Application can search for a list of mechanics at any location or nearby locations which will help them in unexpected situations raised by the mechanical issues of their vehicles.
* Only the licensed mechanics can get listed here while the search.
* Road assistance for cars and there is an available mechanic who can come and repair the mechanical issues in the user’s vehicle.

**System Modules**

**Admin**

* Login
* User Management
* Handler Management
* Request Approval
* Logout

**User**

* Register
* Login
* Search Mechanic
* Details
* Post Feedback
* My Profile
* Logout

**Handler**

* Register
* Login
* View Application
* Update Status
* View Feedback

**Module Description**

**Admin**

1.Login

     In log in page, admin can manage all information. They can update or edit any information.

2.User Management

    Admin will manage all the register users and approval

3.Handler Management

    Admin will manage all the registered mechanics/handler and approve the mechanic

4.Request Approval

    Admin will see all the request request made by customers and assign the request to any handler/mechanics

**User**

1.Register

    User can register to vehicle service  application

2.Login

    User can login to the vehicle service application

3.Search Mechanic/Handler

    User can search the nearby Mechanic/Handler

4.Details

    User will fill the details of therir location

5.Post Feedback

    After the service user will post the feedback

6.Myprofile

    User will See their profile

**Handler**

1.Register

    Handle can register vehicle service application

2.Login

    Handler can login to the vehicle service application

3.View Application

    Handler can view the user application

4.Update status

    Handler can update the status of application

5.View Feedback

    Handler can view thw feedback about their work

**Flow Diagram**

