SWE3999 - Technical Answers to Real World Problems (TARP)

Project Report

Road Side Assistance

By

HARISH KUMAR. M - 18MIS1031

HARSHIT. D - 18MIS1038

BHUVANESWARAN. B - 18MIS1043

ARAVINDHAN. V - 18MIS1052

DHANUSH. S - 18MIS1083

M.Tech Software Engineering
(5 Year Integrated)

Submitted to

Geetha. S

School of Computer Science and Engineering

VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

December 2021

DECLARATION

I hereby declare that the report titled "**Road Side Assistance"** submitted by me to VIT Chennai is a record of bona-fide work undertaken by me under the supervision of **Geetha. S**, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai. In fulfillment of the requirements of the award of the course of SWE3999 - Technical Answers for Real World Problems (TARP) is a bona-fide record of the work carried out by us under the supervision of Dr. Geetha S ma'am.

Place: Chennai

Signature of the students

HARISH KUMAR. M - 18MIS1031

HARSHIT. D - 18MIS1038

BHUVANESWARAN. B - 18MIS1043

ARAVINDHAN. V - 18MIS1052

DHANUSH. S - 18MIS1083

Date: 15-12-2021

CERTIFICATE

Certified that this project report entitled "**Road Side Assistance"** is a bonafide work of Harish Kumar. M (18MIS1031), Harshit. D (18MIS1038), Bhuvaneswaran. B(18MIS1043), Aravindhan. V(18MIS1052) and Dhanush. S (18MIS1083) and they carried out the Project work under my supervision and guidance for SWE3999 - Technical Answers to Real World Problems (TARP) is a bonafide record carried out under my guidance. The project fulfils the requirements as per the regulations of this University and in my opinion, meets the necessary standards for submission. The contents of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma and the same is certified.

GUIDE:
Geetha S ma'am

HEAD OF THE DEPARTMENT:
Dr. Asnath Phamila ma'am

DATE:15-12-2021

ACKNOWLEDGEMENT

We are profoundly grateful to Dr.Geetha S ma'am for their expert guidance and continuous encouragement throughout to see that this project rights its target from its commencement to its completion.

We would like to express our deepest appreciation towards Vellore Institute of Technology Chennai and once again to, Dr. Asnath Phamila Y, Head of the Department of Software Engineering whose invaluable guidance supported us in completing this project.

At last, we must express our sincere heartfelt gratitude to our friends and seniors who helped me directly or indirectly during this course of work.

Signature of the students

HARISH KUMAR. M - 18MIS1031

HARSHIT. D - 18MIS1038

BHUVANESWARAN. B - 18MIS1043

ARAVINDHAN. V - 18MIS1052

DHANUSH. S - 18MIS1083

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ABSTRACT

Road side assistance (RSA)is going to be a good solution for the people who seek help in the remote locations with mechanical issues of their vehicle. Users of the On Road Vehicle Breakdown Application will be the registered public and they will be getting connected with the particular mechanic through the trustworthy application system. Because only the legally licensed and approved mechanics are enlisted in the Road side assistance (RSA)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 are broke down or had any mechanical issue in remote locations or any long distant locations from their known mechanic shops. In a proposed Here the users of Road side assistance (RSA)system can search for list of mechanic at any location or the nearby locations which will help them in an unexpected situation raised by the mechanical issues of their vehicles.

CONTENTS

1. Introduction

Road trip is always fun and enjoyable by you get to know many things. You might also plan and make all precaution to make the journey safe and smooth. However, in the unfortunate & unforeseen event of a breakdown or road accidents what is needed is immediate help. Our goal is to ensure that you get prompt assistance during such a situation. To make this possible we are doing an Android Application for user assistance purpose which provides assistance to the passengers during their road trips. We already know Android is the Trending Technology. In our application we are integrating many possible assistances that can be provided during the trip.

The assistance to the travelers by road may be vast and focusing on some of the important aspect that gives assistance to the passengers to ensure their safety and good travelling experience.

The other interesting part is that, travelers can use this application since they are just few taps away to communicate the problem and get immediate possible assistance. In this crazy world with amazing technology, everyone is using Smartphone. People with android phones and tablets can install our application and can have access to our assistance service when needed.

1.1 Objective and goal of the project

The scope of the project will only be the Road side Assistance System. The goal of the system is to help vehicle breakdown, assistance and fuel. The application domain will be a mobile application. RSA will help by finding the nearest mechanic and assistance over chat. The system will search for the mechanic who is free as well as in nearby certified mechanics. By this we can build a platform with which we can connect customer and mechanics easily.

1.2 Problem Statement

Two-wheeler and car breakdown cases increase more as the long journeys put vehicles more at risk of breaking down. In Highways, it is easier to seek for help as there be many. In the case of breakdown on State Route and Route in Town, it can be difficult to get help because if the driver is not familiar with that place. When it comes to breakdown in rural areas, it could be worse as the point of breakdown is far away from Car Repair Service Providers.

From the above problems, it is important that further investigations should be made to solve this problem faced by the public. There must be a solution to this problem, not just to decrease the break down incidents, but to help the public to contact a trustworthy service operator to assist them in such situations too. As a driver on the road, car breakdown can happen at any time and it is out of the driver’s control at some point. When a driver was caught in such situation, one definitely does not want

to be stranded on the road for too long seeking help without any clues, especially in unfamiliar places.

1.3 Motivation

Now a days there are lots of people tend to travel in their two-wheeler or four-wheeler than on public transport. While travelling they may face issues with their vehicle like break down, puncture etc. if they face these in middle of nowhere then there won't be any help to be done. So, this is what motivates us to bring a solution by providing a helping hand through the app as most of India is well connected by internet. When they raise an intimation about their vehicle break down our technician will drive there and help them.

1.4 Challenges

admins must be able to quickly staff up to handle service intimations, unexpected call volume surges due to severe weather conditions, holidays and peak travel season, and staff down to ensure that centers are operating as efficiently as possible.
These same patterns and adverse weather conditions often hinder the ability for local operators to reach drivers, resulting in repeat calls, longer call times and low customer satisfaction with the overall response.
The urgent nature of the interaction's agents handle contributes to stress, burnout and, ultimately, high turnover. As a roadside assistance service provider must operate in a continual cycle of hiring and training of mechanics and software admins.
As a service provider of roadside assistance that operate as a value-added service for organizations in other sectors must ensure that customer service delivery matches the customer experience vision and expectations of the brand it is representing.

2. Literature Survey

The recent technological advancement in the field of mobility has impressed the current society tremendously. Glass and Saggi clearly described the impact of the mobility advantage to the community in overcoming problems. Based on AAM annual report, breakdown cases that been handled throughout the year 2013 is approximately 44,000. This statistic shows that around 70% of service is resolved immediately which is classified as minor failure breakdown issue. Minor failure breakdown has segregated into several categories like engine failure start up, engine failure heat, lockout, and others. This statistic is only from single organization apart from the other services available nationwide. This clearly shows that the number of vehicles encountering such emergency situation requires the service to be available.

Firstly, the existing manual process is not able to address the transaction request effectively. The manual process is holding back staff as they are unable to provide quick response due to lack of streamlined system with sufficient information available. The blocking of existing process is because many systems that are available in the market are not streamlined into a single source. Therefore, the required information is not

available immediately upon the transaction being raised for any emergency situation whereby the consumer is required to provide information to the vendor for each transaction. discussed that non-centralized system may contain inconsistent information that could cause missing information. Currently, most of the transactions are handled via calls or walk-in in order to collect information. When consumers dial a vendor for an emergency request, repeated questions are being asked by the operator. As a result, it leads to late response because accurate information is not available and this leads to a slow response to a transaction. The usefulness of a centralized system could contribute to a more controlled and manageable information system.

Secondly, quick responses features are insufficient in the existing products. This limits a quick response for the consumer when there is an emergency request. In the existing products, the emergency request is being handled by the call center hotline as an interim person before reaching the vendors. This causes the consumers to experience slow responses due to long waiting hours at the call center. This can also lead to a higher call abandoned rate.

Thirdly, vendors do not have any reporting features that show the transaction status that is engaged in a monthly or weekly transaction. indicate that business decision is hardly made without reporting features that represent the numbers to the organization. The existing systems available in the market do not offer this feature along with the system instead; overall count is derived from the organization level and not specific to the vendor's visibility. For an instance, the entire transaction request raised to relevant insurance service or association hotline or call center will be recorded by representing the statistics at the specific organization level. However, it does not display how each workshop panel handled the cases.

3. Requirements Specification

The hardware and software requirements are kept basic such that everybody could use our platform during emergency.

3.1 **Hardware Requirements**

The computer's required specification will depend on the number of optical sensors it needs to handle. In our case the system's specification was:

- Ram: 3 GB
- Processor: any mobile processor from snapdragon, exynos, mediatek and apple.
- Sensor: camera and NAVIC (or) GPS
- Stable internet

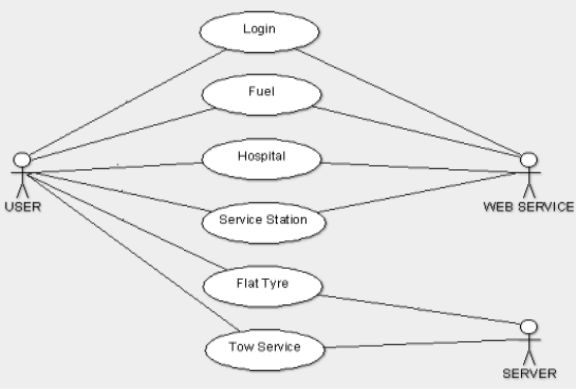
3.2 **Software Requirements**

Our system work finely both in android and ios ecosystem. So, user's need only a android phone with android version greater than pie and ios with greater than 13 to install and use our application.

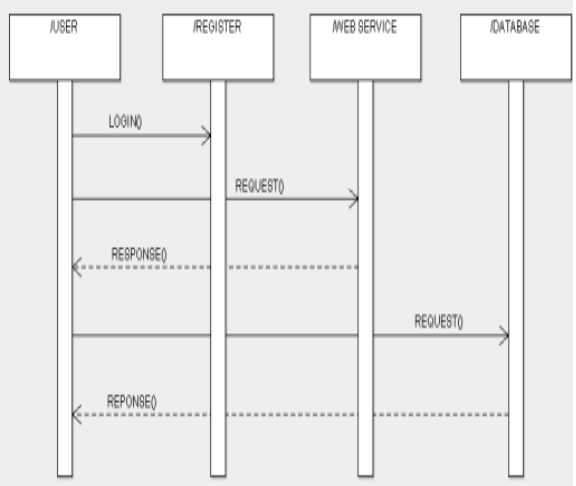
4.System Design

As we are going to build an application for the problem statement as planned in node.js environment and convert it into an app using android studio. Our application is going to provide services like fuel assistance, flat tire service, tow service etc. first the user needs to enter what kind of service he needs with his mobile number and location, then our system admin will connect a mechanic, fuel deliverer, ambulance, towing vehicle to the user's location itself. Our admin will stay connect exclusively to the customer until the problem gets resolved.

- Use-case Diagram

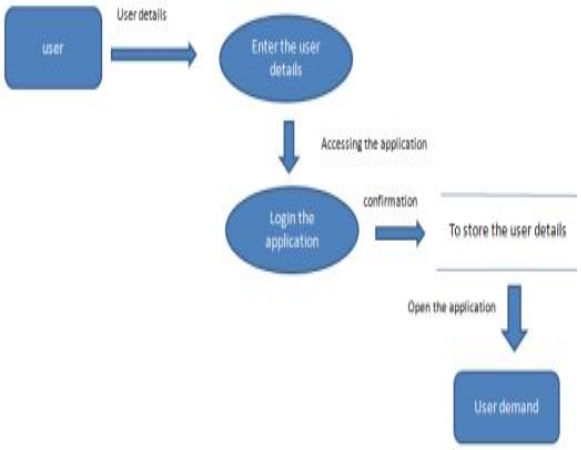


- Sequence Diagram

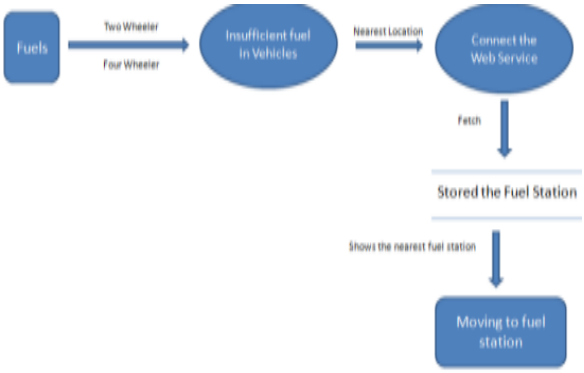


- Data flow Diagram

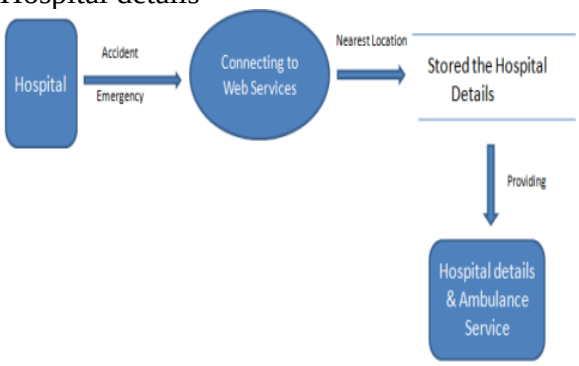
User details



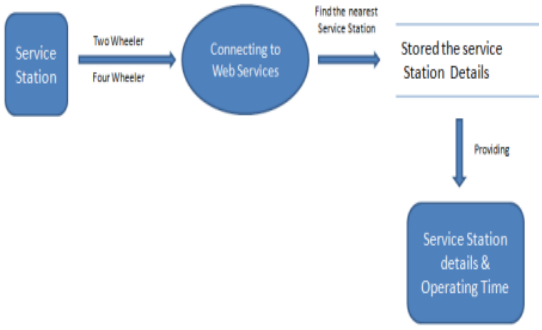
Fuel details



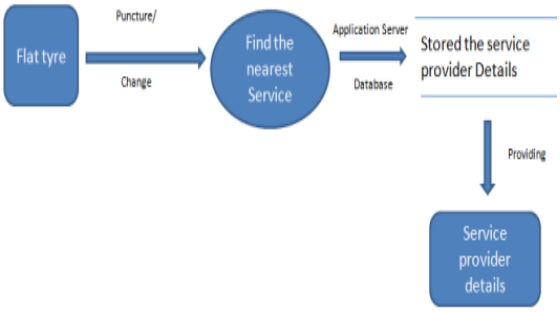
Hospital details



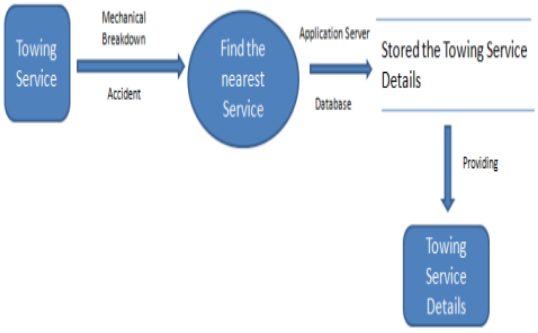
Service station details



Flat tire problems



Towing details



5.Implementation of System

In our project, the user needs to register himself/herself to use our vehicle assistance application. We are using 12 modules in user module

- Login
- Sign up
- Home
- Services
- About us
- Testimonials
- Contact us
- Affordable and Efficient Towing Services
- 24x7 Roadside Assistance

- Lost/Locked Keys
- Fuel Problems
- Tire Assistance

A. Login

- To get access to your orders, Wishlist and Recommendations, user need to login to our application.
- User can login using their Mobile number and password
- They can also login by getting OTP in our mobile number.
- If user forgets their password, they need to click forget password link and we will send a verification code to our registered mobile number and we can set new password to login to our application.

B. Sign up

- If user is new to our application, they need to sign up using mobile number. This will send a verification code to our mobile number.
- This will direct to signup page and we can enter our personal information (Name and Email) and set a new password.
- After confirming our password user can login to our application

C. Home

After logging in to our application user will be directed to our home page. In our home page, we will be providing all details of our application.

D. Services

Users can see our services that we will provide solution to our problems in emergency situation. They can enquire to us during such situations:

- Towing Services
- 24 x 7 Roadside Assistance
- Lost / Locked keys
- Fuel Problems

E. About us

- User can see all our branches and our new startups in Tambaram and Kanchipuram.
- they can understand that we will be offering the best towing and car breakdown services and our well-trained assistant team is always at your service.

- We are capable of extracting all types of vehicles. Our team takes elaborate security measures and makes sure that there is no harm done to the vehicle during the process.

F. Testimonials

User can see our customer reviews and rating about our service and they can decide whether to call us for help at any emergency situations.

G. Contact us

We will be providing our contact details and our email address so that user can enquire us for any queries.

H. Affordable and Efficient Towing Services

We will be providing towing service to our user incase vehicle breakdown or any emergency situation.

I. 24x7 Roadside Assistance

Breakdowns are unpredictable that's why we're available 24 x 7 to help you any time and at any place.

J. Lost/Locked Keys

In case you get locked in or out of your car or lose your car keys, we offer you towing service till your destination.

K. Fuel Problems

In this module, we arrange fuel for you to help you drive to the nearest fuel station and get to your destination in time.

L. Tire Assistance

We replace your vehicle's flat tire with our spare ones in case you do have enough spare tires.

Service Page:

To get our service related to any above situations, User can enquire us by redirecting to our service page.

User will be asked to select their vehicle from option, whether its

- 4wheeler
- 2wheeler
- Heavy vehicle

User will be asked to select the condition of their vehicle;

- Heavily Damaged
- Partially Damaged
- Flat Tires or Axles Broken
- Brake Failure
- Engine Failure

Then user will ask to enter their personal mobile number and email address and they can also leave us message regarding the help needed at that emergency situation.

Mail will be sent to our Administrator so that we will take action. Immediately and to provide solution to user as soon as possible.
User can also track their request and few their mechanic and tower information and service provider details immediately after sending help request from our application.

Admin Page:

- **Login:** Admin will be given login id and password to login to our application and verify the user request and manage their details.
- **Dashboard:** In these sections, the admin can briefly view the total Mechanic, total new request, total approved request, total rejected request by admin, total Mechanic on the way request, total completed request.
- **Mechanic:** In this section, admin can manage the Mechanic (Add/Update).
- **Pages**: In this section, admin can update about us and contact us pages.
- **Requests:** In this section, admin can view the booking request and the admin also has the right to change booking status according to current status and give his/her remarks.
- **Mechanic Response:** In this section, admin received the information of the vehicle which is assisted by the Mechanic.
- **Search:** In this section, admin can search a particular booking detail by booking number, name, and mobile number.
- **Report:** In this section, admin can view between dates appointment reports and Mechanic-wise reports according to dates.
- Admin can also update his profile, change the password and recover the password.

Driver page:

1. **Login:** Driver will be give login id and password to login to our application and to accept the request from our admin to provide solution to our users.
2. **Dashboard:** In this sections, the driver can briefly view the total new assign requests, total completed requests, and total in-progress requests.
3. **Assign Booking:** In this section, the driver can view the booking request which is assigned by the admin and the driver has the right to change the request status according to the current status.
4. **Search:** In this section, driver can search a particular booking request detail by booking number, name, and mobile number.
5. **Reports:** In this section, the employee can view how many booking requests have been assign, how many booking requests have been completed and how many booking requests have been pending on his/her end.
6. The driver can also update his profile, change the password and recover the password.

6. Results and Discussion

In this paper, we presented the design and implementation of android application called Road assistance system, with which mobile users can get travel related service information they need anytime and anywhere. The system provides information query of the Fuel stations, Hospitals, Service station details, and the importance services for the travelers like Flat tire service provider details and tow service provider details based on the user's location. The system is a combination of smart phone and web services and will help tour and life for user. Tow service details can be accessed from the application, which is stored in the server as part of the broader roadside assistance service. Positioning support (GPS), highlights the user's current position on the map. The built application successfully provides ease of access (one-touch access) for locating required services.

7. Conclusion and Future Work

Road assistance system application can be added with more features like live weather reports and availability ambulance services, hotel services based on the user's location will ease. By adding more inputs for the services like Tow and Flat tyre providers, the precision and availability of the data for requested details can be improved. Current system is designed and developed in android technology, which can be done in other technologies like Macintosh and windows will make more reach to users.

8. REFERENCES

[1] AAM [Internet]. 2014. Available from: AAM Annual Report 2013, Retrieved May 24, 2016, from http:// www.aam.org.my/aamweb/pdf/anual_reports/ AGMannualreport2013.pdf.

[2] Glass, A.J, Saggi K. Multinational firms and technology transfer. The Scandinavian Journal of Economics. 2002; 104(4):495–513.

[3] Young CY, Tang PC, Black W, Buchanan J, Hooper D, Lane SR, Turnbull JR. PAMFOnline: Integrating EHealth with an electronic medical record system. AMIA Annual Symposium Proceedings, Washington, DC: American Medical Informatics Association; 2003.

[4] Hugoson MÅ. History of nordic computing 2. Centralized versus decentralized information systems. Berlin Heidelberg: Springer; 2009. p. 106–15.

[5] Avramidis AN, L'Ecuyer P. Modeling and simulation of call centers. Proceedings of the 2005 Winter Simulation Conference, Orlando, Florida: IEEE; 2005.

[6] Storey VC, Chen H, Chiang RH. Business intelligence and analytics: From big data to big impact. MIS Quarterly. 2012; 36(4):1165–88

[7] Mark L.Murphy, "The Busy Coder's Guide to Android Development," United States of America, Commons Ware, and LLC. 2008.

[8] Shuiping Wei, Bangyan Ye, Zhiguang Fu, "Research on GPS Positioning Information Transfer Based on Wireless Network," 2007, 28(6): 589-592.

[9] Owens M., "Query Anything with SQLite," The World of Software Development, 2007, 32(12):24-28.

[10] Jianxun Zhao, "Mobile Location Services Development and Implementation Based on Android Platform," Modern Business Trade Industry. pp 271-272. October 2010.

[11] Reto Meire, "Professional Android Application Development", Wiley Publishing Inc., 2009.

[12] Shuiping Wei, Bangyan Ye, Zhiguang Fu, (2007) "Research on GPS Positioning Information Transfer Based on Wireless Network, 28(6): 589-592

[13] Mark L.Murphy, (2008) "The Busy Coder's Guide to Android Development," United States of America, Commons Ware, and LLC.

[14] M.Murphy,(2010) Beginning Android 2, Apress.

[15] R.Meier,(2010) Professional Android 2 Application Development, Wiley

[16] Burnette,(2009) Hello Android, the Pragmatic Programmers.

APPENDIX

Sample code:

Dashboard code:

```
<div class="content-header">
  <div class="container-fluid">
    <div class="row mb-2">
      <div class="col-sm-6">
        <h1 class="m-0 text-dark">Dashboard
        </h1>
      </div>
      <!-- /.col -->
      <div class="col-sm-6">
        <ol class="breadcrumb float-sm-right">
          <li class="breadcrumb-item"><a href="<?= base_url();
?>/dashboard">Home</a></li>
          <li class="breadcrumb-item active">Dashboard</li>
        </ol>
      </div>
      <!-- /.col -->
    </div>
    <!-- /.row -->
  </div>
  <!-- /.container-fluid -->
</div>
<!-- Main content -->
<section class="content">
  <div class="container-fluid">
    <!-- Info boxes -->
    <div class="row">
      <div class="col-12 col-sm-6 col-md-3">
```

```
          <div class="info-box">
            <span class="info-box-icon theme-bg-default elevation-1"><i class="fas fa-truck text-white"></i></span>
            <div class="info-box-content">
              <span class="info-box-text">Total Vehicle's</span>
              <span class="info-box-number"><?= ($dashboard['tot_vehicles']!='') ? $dashboard['tot_vehicles']:'0' ?> </span>
            </div>
            <!-- /.info-box-content -->
          </div>
          <!-- /.info-box -->
        </div>
        <!-- /.col -->
        <div class="col-12 col-sm-6 col-md-3">
          <div class="info-box mb-3">
            <span class="info-box-icon bg-success elevation-1"><i class="fa fa-user-secret"></i></span>
            <div class="info-box-content">
              <span class="info-box-text">Total Mechanic</span>
              <span class="info-box-number"><?= ($dashboard['tot_drivers']!='') ? $dashboard['tot_drivers']:'0' ?> </span>
            </div>
            <!-- /.info-box-content -->
          </div>
          <!-- /.info-box -->
        </div>
        <!-- /.col -->
        <!-- fix for small devices only -->
        <div class="clearfix hidden-md-up"></div>
        <div class="col-12 col-sm-6 col-md-3">
          <div class="info-box mb-3">
```

```
            <span class="info-box-icon bg-warning elevation-1"><i class="fa fa-user text-white"></i></span>
            <div class="info-box-content">
              <span class="info-box-text">Total Customer</span>
              <span class="info-box-number"><?= ($dashboard['tot_customers']!='') ? $dashboard['tot_customers']:'0' ?> </span>
            </div>
            <!-- /.info-box-content -->
          </div>
          <!-- /.info-box -->
        </div>
        <!-- /.col -->
        <div class="col-12 col-sm-6 col-md-3">
          <div class="info-box mb-3">
            <span class="info-box-icon bg-danger elevation-1"><i class="fas fa-id-card"></i></span>
            <div class="info-box-content">
              <span class="info-box-text">Today Trips</span>
              <span class="info-box-number"><?= ($dashboard['tot_today_trips']!='') ? $dashboard['tot_today_trips']:'0' ?></span>
            </div>
            <!-- /.info-box-content -->
          </div>
          <!-- /.info-box -->
        </div>
        <!-- /.col -->
      </div>
      <!-- /.row -->
      <!-- /.row -->
      <div class="row">
        <!-- Left col -->
```

```
<div class="row col-md-12">
  <?php if(userpermission('lr_ie_list')) { ?>
  <div class="col-md-6">
    <!-- TABLE: LATEST ORDERS -->
    <div class="card">
      <div class="card-header">
        <h2 class="card-title">Income and Expenses</h2>
      </div>
      <div class="card-header border-transparent">
        <div class="card-body">
          <div class="d-flex">
            <p class="d-flex flex-column">
            </p>
            <p class="ml-auto d-flex flex-column text-right">
              <span class="text-success">
              </span>
            </p>
          </div>
          <!-- /.d-flex -->
          <div class="position-relative mb-4">
            <div class="chartjs-size-monitor">
              <div class="chartjs-size-monitor-expand">
                <div class=""></div>
              </div>
              <div class="chartjs-size-monitor-shrink">
                <div class=""></div>
              </div>
            </div>
            <canvas id="ie-chart" height="200" width="487" class="chartjs-render-monitor" style="display: block; width: 487px; height: 200px;"></canvas>
          </div>
```

```
                <div class="d-flex flex-row justify-content-end">
                  <span class="mr-2">
                  <i class="fas fa-square text-success"></i> Income
                  </span>
                  <span>
                  <i class="fas fa-square text-danger"></i> Expenses
                  </span>
                </div>
              </div>
            </div>
          </div>
          <?php } if(userpermission('lr_reminder_list')) { ?>
          <div class="col-md-6">
            <div class="card">
              <div class="card-header ui-sortable-handle" style="cursor: move;">
                <h3 class="card-title">
                  <i class="ion ion-clipboard mr-1"></i>
                  Reminder
                </h3>
                <div class="card-tools">
                </div>
              </div>
              <!-- /.card-header -->
              <div class="card-body">
                <ul class="todo-list ui-sortable" data-widget="todo-list">
                  <?php if(!empty($todayreminder)) { foreach($todayreminder as
$reminder) { ?>
                  <li id="<?= $reminder['r_id'] ?>">
                    <span class="text">
                      <?= $reminder['r_message']. ' ';  ?>
```

```
                    <div class="tools">
                      <button type="button" data-id="<?= $reminder['r_id'] ?>" class="todayreminderread btn btn-block btn-outline-primary btn-xs">Mark as Read</button>
                    </div>
                  </span>
                </li>
                <?php }  } else { echo 'No reminders'; } ?>
              </ul>
            </div>
            <!-- /.card-body -->
            <div class="card-footer clearfix">
              <a href="<?= base_url() ?>reminder/addreminder"><button type="button" class="btn btn-info float-right"><i class="fas fa-plus"></i> Add Reminder</button></a>
            </div>
          </div>
        </div>
      </div>

      <?php } if(userpermission('lr_vech_list')) { ?>
      <div class="col-sm-6 col-lg-6 ">
        <div class="card">
          <div class="card-header">
            <h2 class="card-title">Vechicle Running Status</h2>
          </div>
          <table class="datatable table card-table">
            <thead>
              <tr>
                <th>Name</th>
                <th>Status</th>
```

```
                </tr>
              </thead>
              <tbody>
                <?php if(!empty($vechicle_status)){ foreach ($vechicle_status as $key => $vechicle_status_arr) {
                  ?>
                <tr>
                  <td><?php echo output($vechicle_status_arr['v_name']); ?></td>
                  <td>
                    <span class="badge badge-<?php echo ($vechicle_status_arr['t_trip_status']=='Completed') ? 'success':'danger' ?>"><?php echo ($vechicle_status_arr['t_trip_status']=='Completed') ? 'Idle':'In Trip' ?></span>
                  </td>
                </tr>
                <?php  }  }  ?>
              </table>
            </div>
          </div>

                </tbody>
              </table>
            </div>
          </div>
        </div>
        <?php } ?>
      </div>
      <!-- /.card -->
      <!-- /.col -->
      <!-- /.col -->
    </div>
    <!-- /.row -->
```

```
  </div><!--/. container-fluid -->
</section>
<!-- /.content -->
</div>
<script src="<?php echo base_url(); ?>assets/plugins/chart.js/Chart.min.js"></script>

<!-- /.content-wrapper -->
<?php if(userpermission('lr_ie_list')) { ?>
 <script>
 var ticksStyle = {
  fontColor: '#495057',
  fontStyle: 'bold'
 }
 var mode      = 'index';
  var intersect = true;
 var $visitorsChart = $('#ie-chart')
 var visitorsChart  = new Chart($visitorsChart, {
  data   : {
   labels  : <?= "['" . implode ( "', '", array_keys($iechart)) . "']" ?>,
   datasets: [{
    type                : 'line',
    data                : <?= "['" . implode ( "', '", array_column($iechart, 'income')). "']" ?>,
    backgroundColor     : 'transparent',
    borderColor         : '#28a745',
    pointBorderColor    : '#28a745',
    pointBackgroundColor: '#28a745',
    fill                : false
    // pointHoverBackgroundColor: '#007bff',
    // pointHoverBorderColor    : '#007bff'
   },
    {
```

```
        type                : 'line',
        data                : <?= "['" . implode ( "', '", array_column($iechart, 'expense')) . "']"
?>,
        backgroundColor     : 'tansparent',
        borderColor         : '#dc3545',
        pointBorderColor    : '#dc3545',
        pointBackgroundColor: '#dc3545',
        fill                : false
        // pointHoverBackgroundColor: '#ced4da',
        // pointHoverBorderColor    : '#ced4da'
      }]
    },
    options: {
      maintainAspectRatio: false,
      tooltips           : {
        mode     : mode,
        intersect: intersect
      },
      hover              : {
        mode     : mode,
        intersect: intersect
      },
      legend             : {
        display: false
      },
      scales             : {
        yAxes: [{
          // display: false,
          gridLines: {
            display      : true,
            lineWidth    : '4px',
```

```
          color       : 'rgba(0, 0, 0, .2)',
          zeroLineColor: 'transparent'
        },
        ticks    : $.extend({
          beginAtZero : true,
          suggestedMax: 200
        }, ticksStyle)
      }],
      xAxes: [{
        display  : true,
        gridLines: {
          display: false
        },
        ticks    : ticksStyle
      }]
    }
  }
})

</script> <?php } ?>
```

Mechanic code:

```
<div class="content-header">
    <div class="container-fluid">
      <div class="row mb-2">
        <div class="col-sm-6">
          <h1 class="m-0 text-dark"><?php echo (isset($vehicledetails))?'Edit Vehicle':'Add Vehicle' ?>
          </h1>
        </div><!-- /.col -->
```

```
        <div class="col-sm-6">
          <ol class="breadcrumb float-sm-right">
            <li class="breadcrumb-item"><a href="<?= base_url(); ?>/dashboard">Vehicle</a></li>
            <li class="breadcrumb-item active"><?php echo (isset($vehicledetails))?'Edit vehicle':'Add Vehicle' ?></li>
          </ol>
        </div><!-- /.col -->
      </div><!-- /.row -->
    </div><!-- /.container-fluid -->
  </div>
  <!-- Main content -->
  <section class="content">
    <div class="container-fluid">
      <form method="post" id="vehicle_add" class="card" action="<?php echo base_url();?>vehicle/<?php echo (isset($vehicledetails))?'updatevehicle':'insertvehicle'; ?>">
            <div class="card-body">


              <div class="row">
               <input type="hidden" name="v_id" id="v_id" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_id']:'' ?>" >

                <div class="col-sm-6 col-md-4">
```

```
                <label class="form-label">Registration Number</label>
                <div class="form-group">
                 <input type="text" name="v_registration_no" id="v_registration_no" class="form-control" placeholder="Registration Number" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_registration_no']:'' ?>">
                </div>
               </div>
               <div class="col-sm-6 col-md-4">
                 <label class="form-label">Vehicle Name</label>
                <div class="form-group">
                 <input type="text" name="v_name" id="v_name" class="form-control" placeholder="Vehicle Name" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_name']:'' ?>">
                </div>
               </div>
               <div class="col-sm-6 col-md-4">
                <div class="form-group">
                 <label class="form-label">Model</label>
                 <input type="text" name="v_model" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_model']:'' ?>" class="form-control" placeholder="Model">
                </div>
               </div>
               <div class="col-sm-6 col-md-4">
                <div class="form-group">
```

```
                <label class="form-label">Chassis No</label>
                <input type="text" name="v_chassis_no"
value="<?php echo (isset($vehicledetails)) ?
$vehicledetails[0]['v_chassis_no']:'' ?>" class="form-control"
placeholder="Chassis No">
              </div>
            </div>
            <div class="col-sm-6 col-md-4">
              <div class="form-group">
                <label class="form-label">Engine No</label>
                <input type="text" name="v_engine_no"
value="<?php echo (isset($vehicledetails)) ?
$vehicledetails[0]['v_engine_no']:'' ?>" class="form-control"
placeholder="Engine No">
              </div>
            </div>
            <div class="col-sm-6 col-md-4">
              <div class="form-group">
                <label class="form-label">Manufactured By</label>
                <input type="text" name="v_manufactured_by"
value="<?php echo (isset($vehicledetails)) ?
$vehicledetails[0]['v_manufactured_by']:'' ?>" class="form-control"
placeholder="Manufactured By">
              </div>
            </div>
            </div>
                <div class="row">
```

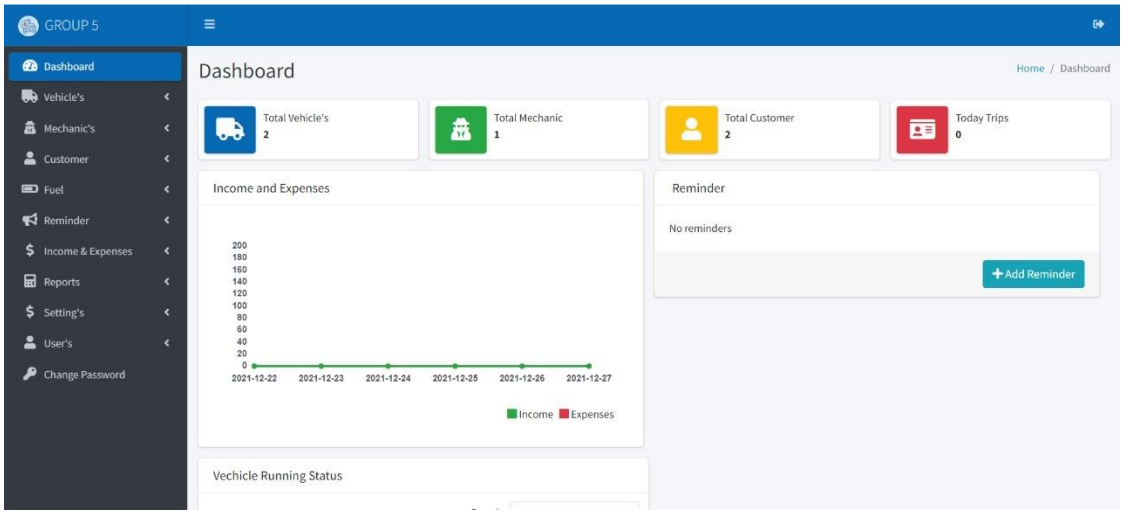
```
<div class="col-sm-6 col-md-4">
 <div class="form-group">
  <label class="form-label">Vehicle Type</label>
  <select id="v_type" name="v_type" class="form-control " required="">
   <option value="">Select Vehicle Type</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='CAR') ? 'selected':'' ?> value="CAR">CAR</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='MOTORCYCLE') ? 'selected':'' ?> value="MOTORCYCLE">MOTORCYCLE</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='TRUCK') ? 'selected':'' ?> value="TRUCK">TRUCK</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='BUS') ? 'selected':'' ?> value="BUS">BUS</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='TAXI') ? 'selected':'' ?> value="TAXI">TAXI</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_type']=='BICYCLE') ? 'selected':'' ?> value="BICYCLE">BICYCLE</option>
  </select>

 </div>
```

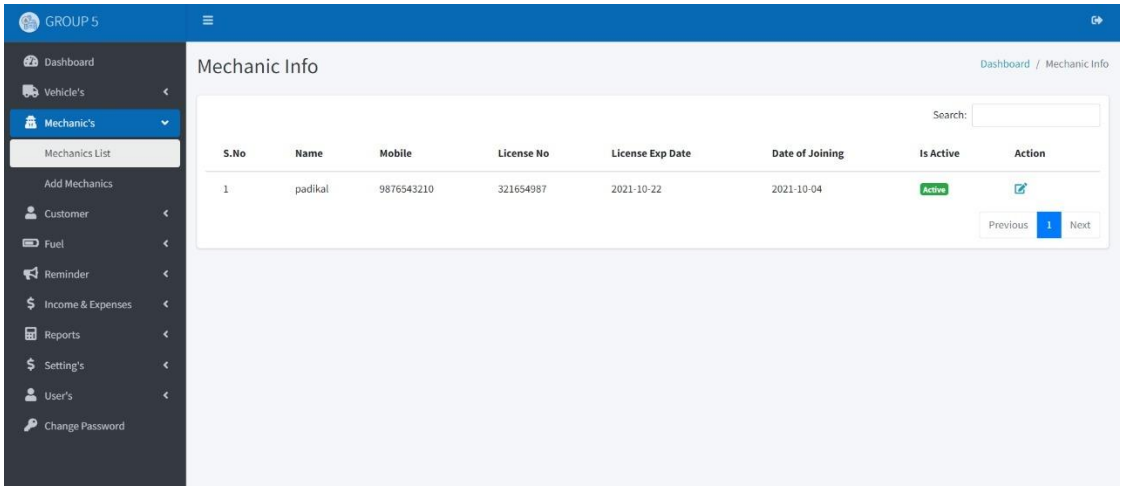
```
</div>
<div class="col-sm-6 col-md-4">
 <div class="form-group">
  <label for="v_color" class="form-label">Vehicle Color</label>
  <input id="add-device-color" name="v_color" class="jscolor {valueElement:'add-device-color', styleElement:'add-device-color', hash:true, mode:'HSV'} form-control" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_color']:'#F399EB' ?>" required>
 </div>
</div>
<?php if(isset($vehicledetails[0]['v_is_active'])) { ?>
<div class="col-sm-6 col-md-4">
 <div class="form-group">
  <label for="v_is_active" class="form-label">Vehicle Status</label>
  <select id="v_is_active" name="v_is_active" class="form-control " required="">
   <option value="">Select Vehicle Status</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_is_active']==1) ? 'selected':'' ?> value="1">Active</option>
   <option <?php echo (isset($vehicledetails) && $vehicledetails[0]['v_is_active']==0) ? 'selected':'' ?> value="0">Inactive</option>
  </select>
```

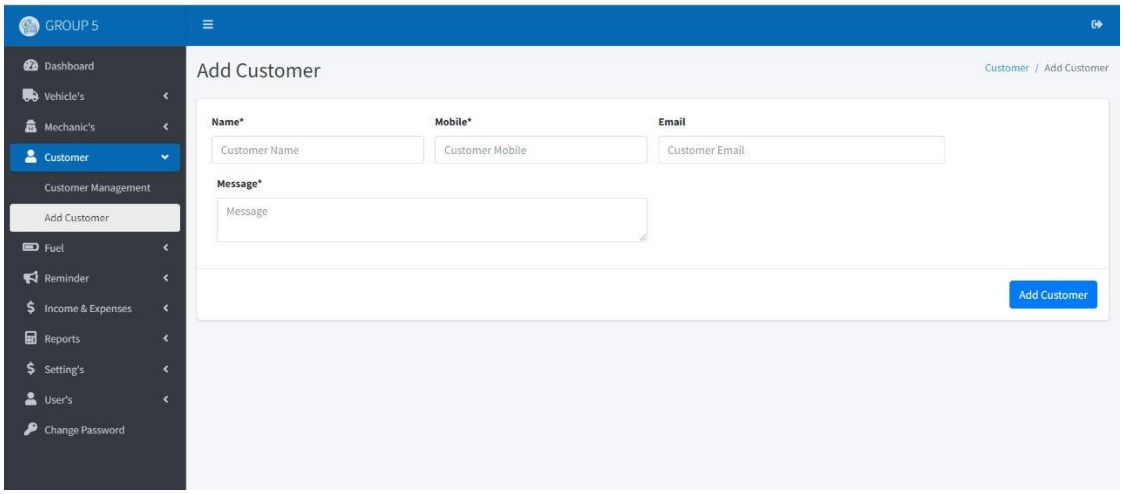
```
                </div>
              </div>
            <?php } ?>
            <div class="col-sm-6 col-md-4">
              <div class="form-group">
                <label class="form-label">Registration Expiry Date</label>
                <input type="text" required="" name="v_reg_exp_date" value="<?php echo (isset($vehicledetails)) ? $vehicledetails[0]['v_reg_exp_date']:'' ?>" class="form-control datepicker" placeholder="Registration Expiry Date">
              </div>
            </div>
            <div class="col-sm-6 col-md-4">
              <div class="form-group">
                <label for="v_group" class="form-label">Vehicle Group</label>
                <select id="v_group" name="v_group" class="form-control " required="">
                  <option value="">Select Vehicle Group</option>
                  <?php if(!empty($v_group)) { foreach($v_group as $v_groupdata) { ?>
                  <option <?= (isset($vehicledetails[0]['v_group']) && $vehicledetails[0]['v_group'] == $v_groupdata['gr_id'])?'selected':''?> value="<?= $v_groupdata['gr_id'] ?>"><?= $v_groupdata['gr_name'] ?></option>
                  <?php } } ?>
```

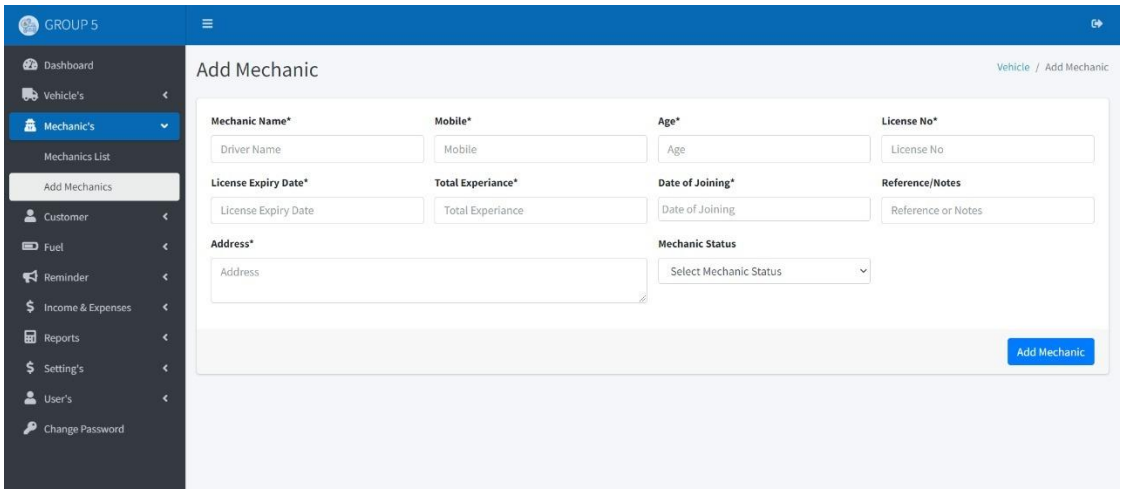
```
                    </select>
                  </div>
                </div>
                </div>
                <hr>

              <input type="hidden" id="v_created_by" name="v_created_by" value="<?php echo output($this->session->userdata['session_data']['u_id']); ?>">
               <input type="hidden" id="v_created_date" name="v_created_date" value="<?php echo date('Y-m-d h:i:s'); ?>">
              <div class="card-footer text-right">
               <button type="submit" class="btn btn-primary"> <?php echo (isset($vehicledetails))?'Update Vehicle':'Add Vehicle' ?></button>
              </div>
            </form>
          </div>
    </section>
    <!-- /.content -->
```

Screen Shot:


GROUP 5
Dashboard
Vehicle's
Mechanic's
Customer
Fuel
Reminder
Income & Expenses
Reports
Setting's
User's
Change Password
Dashboard
Home / Dashboard
Total Vehicle's
2
Total Mechanic
1
Total Customer
2
Today Trips
0
Income and Expenses
200
180
160
140
120
100
80
60
40
20
0
2021-12-22
2021-12-23
2021-12-24
2021-12-25
2021-12-26
2021-12-27
Income
Expenses
Reminder
No reminders
+ Add Reminder
Vechicle Running Status


GROUP 5
Dashboard
Vehicle's
Mechanic's
Mechanics List
Add Mechanics
Customer
Fuel
Reminder
Income & Expenses
Reports
Setting's
User's
Change Password
Mechanic Info
Dashboard / Mechanic Info
Search:
S.No
Name
Mobile
License No
License Exp Date
Date of Joining
Is Active
Action
1
padikal
9876543210
321654987
2021-10-22
2021-10-04
Active
Previous
1
Next


GROUP 5
Dashboard
Vehicle's
Mechanic's
Customer
Customer Management
Add Customer
Fuel
Reminder
Income & Expenses
Reports
Setting's
User's
Change Password
Add Customer
Customer / Add Customer
Name*
Customer Name
Mobile*
Customer Mobile
Email
Customer Email
Message*
Message
Add Customer



ASSISTANCE

Breakdowns are unpredictable, that's why we're available 24x7 to help you any time & at any place.

Enquire Now

KEYS

In case you get locked in or out of your car or lose your car key, we offer towing services till your destination.

Enquire Now

SERVICES

24X7 ROADSIDE ASSISTANCE

Breakdowns are unpredictable, that's why we're available 24x7 to help you any time & at any place.

LOST/LOCKED KEYS

In case you get locked in or out of your car or lose your car key, we offer towing services till your destination.

FUEL PROBLEMS

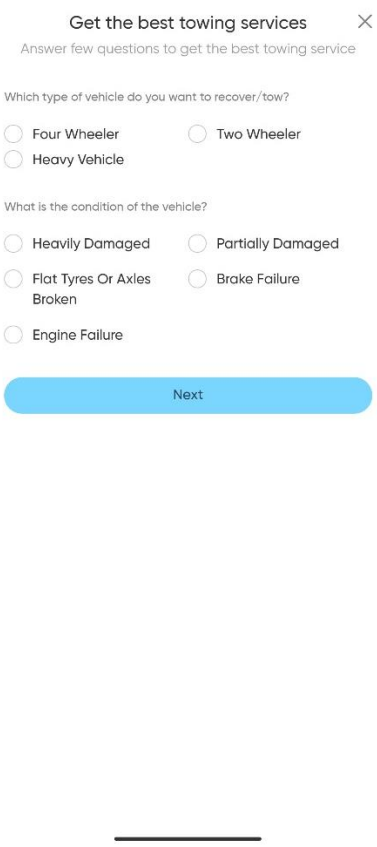
We arrange fuel for you to help you drive to the nearest fuel station & get to your destination in time.

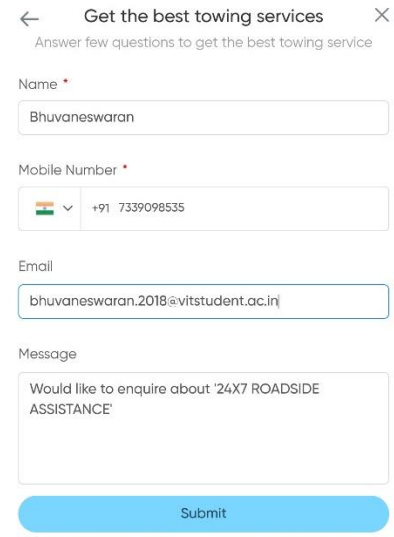
Enquire Now

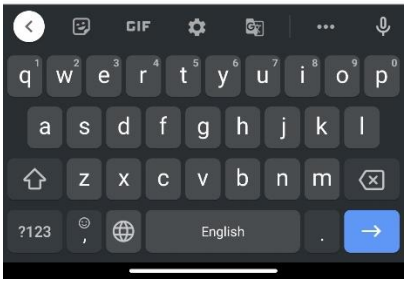
TYRE ASSISTANCE

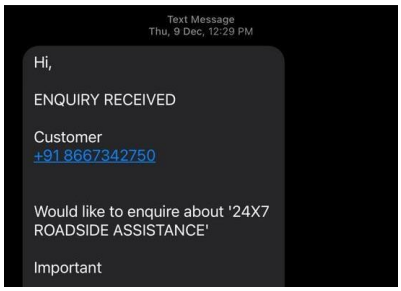
We replace your vehicle's flat tyre with our spare ones, in case you do not have enough spare tyres.

Enquire Now


Get the best towing services
Answer few questions to get the best towing service
Which type of vehicle do you want to recover/tow?
Four Wheeler
Two Wheeler
Heavy Vehicle
What is the condition of the vehicle?
Heavily Damaged
Partially Damaged
Flat Tyres Or Axles Broken
Brake Failure
Engine Failure
Next


Get the best towing services
Answer few questions to get the best towing service
Name *
Bhuvaneswaran
Mobile Number *
+91 7339098535
Email
bhuvaneswaran.2018@vitstudent.ac.in
Message
Would like to enquire about '24X7 ROADSIDE ASSISTANCE'
Submit


GIF
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123
English


Text Message
Thu, 9 Dec, 12:29 PM
Hi,
ENQUIRY RECEIVED
Customer
+91 8667342750
Would like to enquire about '24X7 ROADSIDE ASSISTANCE'
Important