



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2022

### Project Charter

<b>Title of the Project :</b>	Automobile Shop Management System for Gallage Motors	
<b>Batch :</b>	Weekday	Group No: T49
<b>Development Technology :</b>	MERN Frontend – react.js Backend – node.js & express.js Database – mongodb	

#### **Description of the Project:**

Gallage Motors is one of the leading automobile service stations in Sri Lanka. The main service here is repairing common rail injectors. other than that company provides sells vehicles, spare parts, and vehicle maintenance services. The project aims to streamline the services and internal administration of the organization. The enormous amount of time taken to store and retrieve the data has negatively affected the company. Their current system doesn't provide the security that they expected. current UI exciting doesn't meet the requirement of a modern UI/UX experience. The purpose of choosing an online web application is to overcome problems more efficiently. This project is an essential system for customers as it enables the company to offer accelerated service to their customers, expand their business and streamline corporate internal administration

#### **Details of the Group Members:** *(Provide the details of the group leader in the first row)*

	<b>Name with Initials</b>	<b>Registration Number</b>	<b>Contact Phone Number</b>	<b>Email</b>
1.	Kumara K.V.Y.S	IT20299620	0781455850	IT20299620@my.sliit.lk
2.	Madushanka H.M.A	IT20610616	0773872701	IT20610616@my.sliit.lk
3.	Madhuranga B.D.H	IT20611910	0717083178	IT20611910@my.sliit.lk
4.	Withanage P.W.E.L	IT20600334	0765661217	IT20600334@my.sliit.lk
5.	Dilshan K.S.S	IT20107246	0765303889	IT20107246@my.sliit.lk
6.	Ashen A.V.S	IT20603472	0701741249	IT20603472@my.sliit.lk
7.	Karunathilaka A.G.G.N	IT20604462	0768909547	IT20604462@my.sliit.lk
8.	Lakshana W.N.R.A.S	IT20126056	0789218853	IT20126056@my.sliit.lk



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### List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Kumara K.V.Y.S	<p><b>Vehicle sales management</b> – It aims to manage all the used vehicle sales. customers can leave a bet for preferred vehicles. vehicles are reserved based on details such as customer name, email, contact number, estimated date. reserved details will have appeared to the admin. Generate monthly reports on customer responses for each vehicle. Should be able to add new vehicles for sale, update and delete vehicle details and search reserved customers. sell vehicle details are forward to finance management department.</p> <ul style="list-style-type: none"><li>• Create vehicle add</li><li>• Update vehicles add</li><li>• Delete vehicle add</li><li>• Generate monthly vehicle selling report</li></ul>
2.	Madushanka H.M.A	<p><b>Employee management</b> - Manages all basic information and attendance of an employee. Basic information based on details such as Employee ID, NIC, Job role, basic salary, etc. It also manages employee attendance, leaves, and unpaid leave. Generate monthly reports on employee attendance. Should be able to manage employee leaves. Update and delete employee details. Search for an employee. employee attendance details are forwarded to the finance management department.</p> <ul style="list-style-type: none"><li>• Create employee profile</li><li>• Update employee profile</li><li>• Delete employee profile</li><li>• Employee attendance management</li><li>• Generate monthly attendance report</li></ul>



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3.	Madhuranga B.D.H	<p><b>Warranty issue management</b> - This function mainly aims to generate a warranty certificate for injectors. If the customer claims the warranty, those details will also be managed. Warranty claim will be based on details such as Warranty ID, customer name, email, contact number, Technician details, repairing details, etc., claim details and warranty details will appear to admin. Generate monthly reports on all the warranty claims. Should be able to generate a PDF for each relevant warranty certificate. Update warranty status validity and extend the warranty period. Admin can delete expired warranty details. Search Warranty certificate. spare parts details coming from spare part management department.</p> <ul style="list-style-type: none"><li>• Issue new warranty</li><li>• Update warranty details</li><li>• Generate the monthly report about claimed warranties within a month</li><li>• Generate pdf to get printout of warranty</li><li>• Delete expired warranty</li></ul>
4.	Withanage P.W.E.L	<p><b>Online reservation management</b> - Customers can place an online reservation for maintenance in this function. Online reservations are based on customer name, vehicle number, vehicle model, manufactured Year, preferred date, and time. Online reservation confirmation details will be sent to the customer's email address. Monthly report generated by customer reservation received within a month. Reservation will be forward to maintain department. Customers can be updated or delete their reservations. Search reservation by vehicle number. Online reservation details are forwarded to the maintenance management unit.</p> <ul style="list-style-type: none"><li>• Place new reservation</li><li>• Edit reservation</li><li>• Delete reservation</li><li>• Generate monthly reservation report</li></ul>



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5.	Dilshan K.S.S	<p><b>Customer care management</b> - Manage all customer feedback and emergency contact. Feedback will be based on customer name, email, feedback message, and ratings. The customer will be contacted by the admin via email. Generate monthly reports on customer feedback. Customers can update and delete their feedback. Search for customer emergency messages.</p> <ul style="list-style-type: none"><li>• Give feedback &amp; rating</li><li>• Update feedback</li><li>• Delete feedback</li><li>• Emergency contact</li><li>• Generate feedback report</li></ul>
6.	Ashen A.V.S	<p><b>Spare parts management</b> – Manages all spare part stock. Spare part based on details such as item code, item model, price, supplier details, etc. If any spare parts reduce, the admin will be notified. Generate monthly reports on spare part availability. Spare parts details can update and delete. Search for spare parts. spare parts selling and buy details are forwarded to the finance management department.</p> <ul style="list-style-type: none"><li>• Place new stock</li><li>• Maintain stock</li><li>• Delete spare part items</li><li>• Generate stock report</li></ul>
7.	Karunathilaka A.G.G.N	<p><b>Finance management</b> – Manages all the Employee salary details, issue bill. finance management based on details such as salary information, discount details. Finance details will be sent to the admin. Generate monthly reports on profit. Should be able to calculate the profit, Bill data can be updated and deleted bill items. Search for billing information. Employee details and attendance coming from employee management department.</p> <ul style="list-style-type: none"><li>• Generate bill</li><li>• Update bill items</li><li>• Delete bill items</li><li>• Calculate monthly salary</li><li>• Generate monthly profit report</li></ul>



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8.	Lakshana W.N.R.A.S	<p><b>Maintain management</b> – Manage vehicle maintenance by this function. The maintenance is done based on details such as vehicle number, vehicle model, vehicle condition, etc. Online reservation maintenance status will be sent to the customer. generate monthly reports on completed maintenance. Should be able to assign technicians, update and delete maintain details. Search for Maintenance vehicles details. Online reservation details are coming from the maintenance management unit.</p> <ul style="list-style-type: none"><li>• Add new vehicle maintain records</li><li>• Update vehicles maintain records</li><li>• Delete vehicle maintain records</li><li>• Generate monthly maintain report</li></ul>
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