



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2022

### **Project Charter**

<b>Title of the Project :</b>	Supermarket Management System	
<b>Batch :</b>	Batch 02	Group No:WD_B02_ITP_03
<b>Development Technology :</b>	MERN Stack	
<b>Client :</b>	Name of company, address	

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

This Project is about creating a Supermarket management system for a supermarket. With the inclinations of using automated systems for company's activities, customer-based services have become very effective, reliable, accurate and safe. Therefore developing a system to manage all the tasks of supermarket is crucial. With the expansion of customers and service it is intricate to keep files, cabinets, and all other physical items to store data and it is not wise to take this sort of approach since it can raise security depravities. Many unauthorized personals can view and access data, and it is unable to analyze the past data since secrecy is not guaranteed to all information and data. The staff can face difficulties with storage, and it can raise a negative impact on the company's good name. With given circumstances it is not easy to update, delete, and edit using manual methods. Manual systems use considerable amount of paperwork and many human computational errors when entering and calculating data and the cost to maintain a company with a manual methods are very high and the time consumption to use manual methods are also high these sort of approach can cost a company its loss of profit as well.

This application controls all the grocery items in a supermarket and customers can view and make deliveries to their homes by purchasing items via this application. Due to latest pandemic situation most of the community has moved to seek online based goods and services. Therefore this app incorporates with each and every part of the community with convenient and hygienic shopping experience. And maintain and manage all the functions in a supermarket. With online shopping customers can deliver their day-to-day goods with a short amount of time and effort. This app allows customers to not only purchase items but experience discounts, promotions and much more. This project is not about building a delivery app but an application to manage all the functions in a supermarket including delivering process. Customers have different access to the application and Staff members have different access to the application whereas managers consume this application with administrative rights.



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

	Surname with initials	Registration Number	Contact Phone Number	Email
1.	Liyanage S.D.K	IT21006548	0701172165	<a href="mailto:it21006548@my.sliit.lk">it21006548@my.sliit.lk</a>
2.	Medawatta H.M.H.N	IT21004186	0761048832	it21004186@my.sliit.lk
3.	Yapa D.G.A.B.S	IT21002342	0767486762	it21002342@my.sliit.lk
4.	Panditharathne I.G	IT21001802	0776893983	it21001802@my.sliit.lk
5.	Fernando W.C.S	IT21446030	0740755709	it21446030@my.sliit.lk
6.	Fernando W.A.M	IT21446108	0740755709	it21446108@my.sliit.lk
7.	Lakshan P.R.D	IT21060380	0771100242	it21060380@my.sliit.lk
8.	Gamage A.G.R.U	IT21050626	0717914821	it21050626@my.sliit.lk

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

	Name with Initials	Brief Description of the Function
1.	Liyanage S.D.K	Inventory and Stock Management Keep track of all the information about groceries available in the supermarket. The cost of each and every item, numbers of items sold, number of items bought, prices, mass, expiration dates, types of stocks, and waste items, returned goods, all kind of information about stocks in the supermarket. Keep track of all the information about storing items in the store. How many items are up for sale, how many unusable items are there, stocking information of the items etc.
2.	Medawatta H.M.H.N	Financial Management & billing In this function we are willing to Manage all items price lists, calculates total revenue. Planning and organizing staff maintenance cost, salaries, and funds. With creating and updating databases. Overall applying general management principles to financial resources of the (Grocery Store) project.



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3.	Panditharathne I.G	<p>Premises management</p> <p>Maintenance and smooth running of premises uses are managed by premises management. Premises are maintained based on details such as inspected issue, inspected area or item, inspected date, maintenance work routine, replacement and upgrades, estimated date of maintenance. Assign maintenance workers to inspected premises maintenances and notify managers about maintenance. Generate monthly report on done maintenances details. Should be able to assign maintenance work to maintenance workers and update maintenance routine progress</p>
4.	Gamage A.G.R.U	<p>Client Management</p> <p>Manages all client registrations and communicate between the system and the client. Name, phone number, address, payment method, bank card numbers of the client is registered to the system. Adding new clients to the system, updating client profiles, deleting client profiles from the system. Notifying clients about special deals, promotions, special offers</p>
5.	Lakshan P.R.D	<p>Staff Management</p> <p>Manage all Staff. Staff member Details are Salary, Family Details, Staff Member ID. Hiring Right People into Right Job. Generate Staff Members Salary Sheet. Manage All Staff Members and Get Efficient Output</p>
6.	Fernando W.C.S	<p>Delivery Management</p> <p>Manages all online delivery orders. Enables customer to choose any item to be delivered. Displays the product's status (whether its available or not) before the order is confirmed by the customer. Enables customer to track the order during the delivery period along with the estimated time period. If the customer wishes to change their mind, they may cancel the order withing 24 hours after the order has been confirmed. Drivers are assigned to each order. If there are delays in delivery, notify customer through an email. Updates delivery time.</p>
7.	Fernando W.A.M	<p>Marketing Management</p> <p>Manages marketing aspects including customer relationship management. Provides promotions and discounts based on customer loyalty points. Provides discounts for stock clearance</p>



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		sales. Enables customer feedback through reviews and comments. Enables text medium for direct communication with Customer Care agent.
8.	Yapa D.G.A.B.S	<p>Purchase and Sales Management</p> <p>Manages all information regarding purchasing items to the supermarket and all the sales details of them. Buying items for the store, number of items bought, types of the items, buying date and time, transport cost, labor charges, supplier information, and sales details of those items, number of items sold, total sales of each item, total income of the sales, generate reports of sales and purchases.</p>