



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2023

Project Charter

Title of the Project :	Green Leaf Information Management System	
Campus & Batch :	Malabe & Weekday -batch 02	Group No: T21
Development Technology :	MERN Stack	

Description of the Project:

Gold Buds Uva Tea is a growing tea production factory in Badulla district. At present, they don't have a system to manage the suppliers directly with the factory and most of the reports, salary and calculations are done manually using paperwork. Therefore, they had to face some mistakes in calculations, misplacing documents, damages due to rain, fraud occurrence, etc. To prevent from difficulties, the company decided to switch to a computer-based system. According to the client's requirements, we are focusing on the tea factory management system and decided to provide a complete management system called, Green Leaf Information Management System Maintaining databases, Labor salaries, customer orders, income & expenses analysis, managing stocks, and maintaining standard quality are the main outcomes of the system. As reliable system developers, we try to prevent above mentioned all difficulties they had faced through our system.

Details of the Group Members:

	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Wijethunga R.D.K.G	IT21240942	0716846441	it21240942@my.sliit.lk
2.	Sellapperuma M.S	IT21243226	0766665142	it21243226@my.sliit.lk
3.	Chandrasekara C.M.A.P.K	IT21255588	0742501304	it21255588@my.sliit.lk
4.	Manathunga M.A.O.S	IT21224652	0713736126	it21224652@my.sliit.lk
5.	Dahanayake R.A	IT21270338	0725013949	it21270338@my.sliit.lk
6.	Bandara E.M.S.S	IT21239298	0712476454	it21239298@my.sliit.lk
7.	Gunasekara G.H.M	IT21232022	0761148087	it21232022@my.sliit.lk
8.	Thennakoon K.M.K.K	IT21232336	0713517222	it21232336@my.sliit.lk



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2023

List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Sellapperuma M.S	Raw material transport management. The vehicles and drivers are managed in this system to assign a route to collect tea leaves. Vehicle ID and Driver ID are given by the company. We collect drivers' personal details and vehicle details to register them in the system. To collect the weight of the tea leaves of each supplier we build a web application with mobile responsive, search for the supplier ID, enter the weight of the tea leaves given by each supplier and to display it directly in the system at the time when the driver collects the leaves. In this system it shows us the place where the vehicle is situated at the time when the company wants to check it. It is displayed on the system using a google map.
2.	Wijethunga R.D.K.G	Supplier and Quantity Management Supplier details and quantity of the tea leaves are managed by this system. Their personal details and bank account details are collected to register them into the system and next an ID is given to the supplier through the company. The weight of the tea leaves entered by the tea bud collector is read by the system and auto generated message is sent to the supplier daily, monthly reports are sent through the system to the suppliers on the date of payment. A daily report of the weight of the supplied tea of each supplier is generated at the end of the day. The tea brought to the company from each vehicle is measured in the factory again and the weight is entered into the system. At last, the report of the read weight details of suppliers and the entered details which are brought to the company is compared to find whether there is any loss.
3.	Dahanayake R.A	Payment management Specifically, this section manages all payments of suppliers. In this section the supplier ID, supplier account details and the weight of tea leaves provided by each supplier are read through the system. Here the monthly value of one kilogram of tea and the incentives (tea powder, fertilizers) given to suppliers are entered into the system. Then the amount that had to be paid for each supplier is calculated through this system. A monthly report of payment is generated and sent it to the financial department.
4.	Manathunga M.A.O.S	Time scheduling and target management Scheduling the route for the drivers is done by using this section. Here a timetable is updated twice a week assigning routes to drivers in the company to collect tea leaves. Target is daily assigned to the quantity management department, and it will be displayed in quantity management system by sending a notification. A report is generated for annually achieved targets and must be able search daily timetable.



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2023

5.	Bandara E.M.S.S	Warehouse management <p>In this section all the raw material details, packing material details and final product details are collected and entered into the system. If any amount of tea leaves remain without sending into production that remaining amount will be entered into the system.</p> <p>When the packing materials are decreasing a notification will be auto generated through the system showing the remaining amount. Space for the end product in the store is managed by this system.</p> <p>A QR code is generated specific to each package, it is scanned, and details of that package is displayed on the system. Details such as product details and manufactured dates will be displayed in the system. Product ID will be given to each package. The category of tea and tea grading details are entered to the system and a report should be generated for the stored products in the warehouse. The system should be able to search and find the amount of products available in the store.</p>
6.	Chandrasekara C.M.A.P.K	Customer and Order Management <p>For this section the customer who orders tea from the company is entered into the system by managing registered customer details. The details of the orders are taken through the customers and entered into the system. The stock available in the warehouse is read and decide whether the order can be placed or else a message will be generated to the target management system to inform the amount of tea that need to be produced to supply the customer.</p> <p>Generate a report of annual orders and display the finished orders. Search for customer details and order details.</p>
7.	Gunasekara G.H.M	Machine management <p>The performance of the machines in the factory is managed through this section.</p> <p>Machine details are taken and entered into the system. Details such as machine type, the value of the machine, the purpose of the machine and the machine ID will be assigned. Through this system it will auto display the value of the machine when any repair is done, or a part is replaced.</p> <p>Notification will be auto generated to show the date when the machine should be serviced. If any new repairs are to be done it will be informed to the financial management system and warehouse management system through a message. Report of the machines can generate through the system and can search details of each machine.</p>
8.	Thennakoon K.M.K.K	Financial management <p>All incomes and expenses are handled through this system. All expenses and income are categorized in this system. This section should be able to read all the income details or the expense details of the other section. In this section net profit will be calculated through the system. Daily total expenses and income gain to the company will be shown in the system. A report of income and expenses should be generated. Should be able to search the income and the expense of a relevant date. A notification is sent to the warehouse to release the stock from this system.</p>