



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2021

### **Project Charter**

<b>Title of the Project :</b>	Tea Factory Management System
<b>Batch :</b>	ITP2021_S2_WE_G09
<b>Development Technology :</b>	Python using Django Framework

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

"Kaley Tea" Co (Pvt) Ltd is a tea factory and is committed to delivering high quality tea to the local and foreign market. All most all the tea they produce are sold at the tea auction. The rest are distributed within the factory.

It takes a lot of time to supervise the workers in the factory, mark attendance, and calculate wages. But by automating the system, it is much easier for the client to prepare and manage all records. Then the relevant records can be re-examined, the errors in the payment of wages can be minimized and the factory can be maintained very efficiently.

All suppliers who supply crops to the "Kaley Tea" factory are registered in our system and all the supplies supplied by them are managed by the system. They can manage their inventory according to the supplier's requirements.

After receiving the fresh quality tea leaves from the suppliers, they are dried under the relevant temperature range and systematically stored to produce quality tea leaves. Here, dry tea leaf management is very important in starting the production process of dried tea leaves.

"Kaley Tea" Co (Pvt) Ltd produce a large amount of tea per day. These tea leaves are graded at different prices according to their quality and condition. The factory mainly targets the international market. So, the factory can get a better opportunity in international market by managing all these manual work through an online system. The final production of tea is mainly sent to the auction and the rest is sold at the local tea shop of the factory.

In this physical shop, the process is not efficient as it is very difficult and time consuming to carry out daily transactions by hand in packaging. So, this is packaging by category. Therefore, it is necessary to update the existing product sizes in an automated manner. It can increase the efficiency of the system.

When selling the products through the tea shop, it generates an income and reduce the selling storage in the tea shop. Management must maintain the reports and checking bills to record the details of the shop. To manage this procedure, tea shop can run an application, it may help to process the below functions efficiently and effectively. Inserting the selling items, update the daily income of the tea shop and displaying the (daily, weekly, monthly, yearly) income of the tea packets.



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In addition to exporting high quality tea produced by the factory to the international market, arrangements are also being made to supply it regularly to the local market. There are a number of vehicles registered under the “Kaley Tea” factory name. This system records all the information related to each vehicle. This process controls the traffic of each vehicle, the areas where those vehicles were transported and the vehicle repairs. All vehicles are connected to our system by GPS, which makes transportation more convenient and efficient.

This final products’ inventory management function is used to add new stock details when a new stock released from factory, categorize the products by details and update product details according to the orders of tea auction. And also, it calculates the daily production of factory and remove stock when all the products are sent to the auction and tea shop. Then it generates reports according to the production details.

Therefore, the efficiency of the system can be increased by managing all the managements, productions, revenue, expenditure, etc. System of the factory more efficiently and effectively through an online system.

### 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.	Jayathunga T.M.	IT20146238	0775338747	it20146238@my.sliit.lk
2.	Ananda R.S.R.G.J.N.	IT20012724	0719264648	it20012724@my.sliit.lk
3.	Gunaratne B.S.	IT20208462	0766922715	it20208462@my.sliit.lk
4.	Nagahawatta S.S	IT20090562	0711892858	it20090562@my.sliit.lk
5.	Prabashwara U.K.A.L.	IT20237240	0772015801	it20237240@my.sliit.lk
6.	Edirisooriya N.W.	IT20005108	0716541028	it20005108@my.sliit.lk
7.	Amarasekara M.G.V.C.	IT20211950	0716004919	it20211950@my.sliit.lk
8.	Rajapaksha R.P.S.V.	IT20272654	0702529909	it20272654@my.sliit.lk



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

	<b>Name with Initials</b>	<b>Brief Description of the Function</b>
1.	Jayathunga T.M. IT20146238	Inventory Management (Manage daily total crop stock, Add, Update and Delete Inventory detail, update daily and monthly production details and generate reports on the items within the inventory.)
2.	Ananda R.S.R.G.J.N. IT20012724	Employee Details and Attendance Management (Registering and Updating details of workers and staff members, managing the daily attendance report.)
3.	Gunaratne B.S. IT20208462	Sales Management in Physical Tea Shop Business (Insert and delete the selling items, update the daily income of the tea shop, display the reports of the sold items with the income.)
4.	Nagahawatta S.S IT20090562	Stock management in Physical Tea Shop Business. (Insert and delete number of packets, update the amount of the current stock, and display the report of the stock)
5.	Prabashwara U.K.A.L. IT20237240	Transport and Vehicle Repair Management (registering vehicles, updating vehicle details, calculating the total expenditure and generate monthly vehicle maintenance report.)
6.	Edirisooriya N.W. IT20005108	Salary Management (calculating salary, other components based on employee attendance and generate monthly final report.)
7.	Amarasekara M.G.V.C. IT20211950	Supplier Details and Operations Management (Registering suppliers, managing supplier operations and generate suppliers inventory report.)
8.	Rajapaksha R.P.S.V. IT20272654	Managing Tea Stocks (Add product details, Update the product details, and generate reports according to the stock changes)