



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2023

### Project Charter

<b>Title of the Project :</b>	Solar Power Management System	
<b>Campus &amp; Batch :</b>	Malabe_WD.IT.08.01	Group No: ITP_WD_B08_G12
<b>Development Technology :</b>	MERN - Mongo DB   Express Js   React Js   Node Js	

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

The main objective of the Solar Power Management System is to automate the existing manual system using a web-based application, meeting their needs so that their valuable data/information can be stored for an extended period with easy access and manipulation. The necessary software and hardware are easily accessible and simple to use.

The Solar Power Management System described above can result in an error-free, secure, dependable, and quick management system. It can help the user focus on their other activities rather than record keeping. As a result, it will assist organizations in making better use of their resources. Businesses can keep computerized duplication.

In other words, to succeed in knowledge, one does not need to be distracted by irrelevant information.

The project's goal is to make the system more reliable, easier to use, faster, and more informative. Essentially, the project describes how to manage continuous performance and provide better services to the client.

#### **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.	Rashmitha K.M.	IT21284120	0706959277	it21284120@my.sliit.lk
2.	De Sliva L.K.N.	IT21283062	0779187146	it21283062@my.sliit.lk
3.	Malwaththa M.A.G.I.	IT21255410	0715206363	it21255410@my.sliit.lk
4.	Jayasinghe K.W.	IT21277436	0767672862	it21277436@my.sliit.lk
5.	Padukka P.D.M.D.	IT21277504	0778922349	it21277504@my.sliit.lk
6.	Athukorala P. D.	IT21283994	0716867565	it21283994@my.sliit.lk
7.	Hapuarachchi T. L.	IT21281846	0779402492	it21281846@my.sliit.lk
8.	Waduge T.R.	IT21267536	0783798080	it21267536@my.sliit.lk



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

	Name with Initials	Brief Description of the Function
1.	Rashmitha K.M.	<b>Employee Management</b> Manages all the employee details like the name, address, contact number, salary and username and password from which the employee can log in. within this function, we can add, remove, update and modify the details of the staff and can display all the employee details according to their working categories. Generate monthly salary report including ETF, EPF, bonus etc.
2.	De Silva L.K.N.	<b>Repair &amp; Services Management</b> The system manages all online repair requests. repair requests are included such as client name, requested date, location, description of the repair, and warranty period. The customer is able to update details. The system directs requests to the repair manager. The manager sends confirm receipt to the customer. Generate monthly reports on repair maintenance.
3.	Malwaththa M.A.G.I	<b>Inventory Management</b> Manage all solar equipment in the inventory Based on details such as Item number, name, price and Quantity. The stored data can be deleted updated and viewed. Generate monthly reports on the Balance of Inventory and what items need to be purchased.
4.	Jayasinghe K.W.	<b>Customer Management</b> Manages all customer details. Add new customers by providing a valid email, full name, username, password, address and phone number. Update and delete customer details whenever necessary. Display all customer details for authorized persons. Generate weekly reports on new customers.



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5.	Padukka P.D.M.D.	<b>Finance Management</b> Manages all the details of financial activities. such as selling items, buying materials, etc. The payments are based on quantity, price, discount, and the date of the payment. This system can add and remove payment methods. such as debit cards, credit cards, and cash payments. Also, the system gives administrators access to generate payment and bill reports.
6.	Athukorala P. D.	<b>Promotions &amp; Offers Management</b> Manage sales promotions and offers to increase interest or demand for products. There are many reasons why a business may choose to use a sales promotion, but the primary reason is to boost sales. The promotions and offers are managed based on such as item details, promotion amount, Start date and End date. Generate monthly reports about Sales details with promotions. Should be able to assign customers details and update promotion details and periods.
7.	Hapuarachchi T. L	<b>Project Management</b> Manages all working site details like Project Id, Project Name, Venue, etc. The project manager can log in with his user credentials, view update and delete projects, and add new projects. We can generate reports on ongoing sites and finished projects at the end of the month.
8.	Waduge T.R.	<b>Transport Management</b> The system manages all the orders placed by customers. These orders are included such as order date, item details, client name, address, and estimated delivery time. The system assigns a driver. Notify the details to the customer. Customers can update details about delivery and search orders. Generate monthly reports on Transports made.