

**Sri Lanka Institute of Information Technology**

**Information Technology Project (IT2080)**

**Batch ID – Y2.S2.WD.IT.08**

**Group ID – ITP\_WD\_B08\_G12**

**Solar Power Management System**

**Agile Activity Report**

**Group Member Details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name with Initials** | **Registration Number** | **Contact Phone Number** | **Email** |
|  | Rashmitha K.M. | IT21284120 | 0706959277 | it21284120@my.sliit.lk |
|  | De Silva L.K.N. | IT21283062 | 0779187146 | it21283062@my.sliit.lk |
|  | Malwaththa M.A.G.I. | IT21255410 | 0715206363 | it21255410@my.sliit.lk |
|  | Jayasinghe K.W. | IT21277436 | 0767672862 | it21277436@my.sliit.lk |
|  | Padukka P.D.M.D. | IT21277504 | 0778922349 | it21277504@my.sliit.lk |
|  | Athukorala P. D. | IT21283994 | 0716867565 | it21283994@my.sliit.lk |
|  | Hapuarachchi T. L. | IT21281846 | 0779402492 | it21281846@my.sliit.lk |
|  | Waduge T.R. | IT21267536 | 0783798080 | it21267536@my.sliit.lk |

**Project Introduction**

B Tech Solar Solutions Pvt Ltd is a newly opened electrical contracting company situated in Kottawa, Sri Lanka. the company is dedicated to providing quality electrical services and knows the importance of doing the job right the first time.

The company currently offer affordable solar installation options for commercial and residential properties, providing you with the latest technology and financial incentives. and also the company offers an amazing LED retrofit program that requires no upfront investment and starts saving money on day one. the company works hard to promote renewable energy and energy efficiency to create a better environment, increase sustainability and improve the local economy for everyone.

currently, the company runs a manual system where all the employees collaborate with physical data transfer techniques and databases. thus it has many operational issues as well as other management issues when performing front desk operations. our client is expecting to get the SRI LANKA SUSTAINABLE ENERGY AUTHORITY'S (SLSEA) approval in the near future. Hence having a computerized system will be beneficial to getting the approval. for the above-mentioned reasons, the client requires a computerized management system to be established in the company. From the proposed system we intend to develop the client’s desires to Increase performance and manage all the operations in the company efficiently.

**IT21284120 – Rashmitha K.M**

**Epic – Employee Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Login to the system as manager | 111 | “As the employee manager, I want to login to the system to maintain the employee details. So that I can add new employee details to the system.” | 1. Create login page. 2. Display login options. 3. Create database. 4. Validate login details |
| Insert, delete, update employee details. | 112 | “As the employee manager, I want to add, update or delete employee details of the system, so that I will be able to see all the employee details.” | 1. Can edit or update additional employee details. 2. Display to enter the user details. 3. If an employee is resigning, can be delete details from the database. |
| View attendance details of all employees. | 113 | “As the employee manager, I want to view attendance details of the all employees, so that I can track the attendance of all the employees.” | 1. View department. 2. View on / off. 3. View date and time |
| View employee leave details | 114 | “As the employee manager, I want to accept and reject leave requests by employees, so that I can manage the leave requests.” | 1. Category of leave 2. Date 3. Time 4. Short leave |
| Login to the system as employee | 115 | “As an employee I should be able to see my own profile, so that I can manage my details.” | 1. Display employee profile. 2. Update employee profile 3. Edit employee profile |
| Employee requested leave | 116 | “As an employee I can request a leave, so that I can get a leave.” | 1. Leave category. 2. Reason 3. Date and time 4. Apply |
| Daily attendance of the employees | 117 | “As an employee I should be able to insert date, time and my Emp ID and submit. So that the manager can view those details whenever he/ she wants.” | 1. Employee attendance (on/off) 2. Insert Emp ID |
| Log out from the system | 118 | “As a manager, I want to logout from the system, so that I can ensure the security of my account.”  “As a employee I can logout from the system, so that I can ensure the security of my account” | 1. Create logout page. 2. Create logout confirm page |
| Reset password | 119 | “As a manager I want to reset my password, so that I could reset my password if I forgot it.”  ------------------------------------------  “As a employee I want to reset my password, so that I can reset my password if I forgot it.” | 1. Create a reset password page. 2. Create reset password done page. 3. Validate password. 4. Update the users’ table |
| Generate monthly attendance report | 120 | “As the employee manager, I want to generate monthly attendance report, so that I can send the attendance of all employees to the finance department to calculate the monthly salary of employees.” | 1. Create export buttons on necessary function pages. 2. Create functions for generating reports. |

**IT21283062 – De Silva L.K.N.**

**Epic – Repair Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Login to the system | 211 | As the repair manager, I want to log into the system so that I can manage the service. | 1. Create login page to manager. 2. Create connected database. 3. Implement validate login credentials |
|  | As the customer, I want to log into system that I can fill repair request. |
| Add new repair request details to system | 212 | As the repair manager, I need to add new repair request details to company database. | 1. Create repair request form. 2. Save the details into system. |
| Assign repair service group to service | 213 | As repair manager, I want to assign repair groups to the requested services. | 1. Implement to check group status function. 2. If group is available assign the work if not check next. 3. Create page to display information. |
| Calculate estimated cost for repairs | 214 | As the repair manager, I want to display the estimated cost to customer for referring. | 1. Get the variables to calculate. 2. Create function to calculate cost. 3. Display the output to page. |
| Send details to customer and workers.  Confirm the repair request | 215 | As repair manager, I want to send all details about repair request to customers and assigned workers. | 1. Display the final form to manager. 2. Give command to add sending details. 3. Implement function to send emails. |
|  | As the customer I need to confirm the repair request to receive service. | 1. Create options to confirm or cancel the request. 2. Confirmation re-direct to system. |
|  |  | As the assigned engineer group, we want to confirm the work to process the next step. | 1. Create options to confirm or cancel the request. 2. Create method to notify the manager. |
| Assigned group submitted works done | 216 | As the engineer group, we need to confirm the activity that finalized. | 1. Create worksheet page to workers. 2. Create work detail form. 3. Save the details. |
| Search repair request from ID | 217 | As the repair manager, I need to search some repair request form to more details. | 1. Create repair request forms page. 2. Implement function to find searching ID form. 3. Display the results. |
| Update, delete request form details from the system | 218 | As the repair manager, I want to view, update and delete, when necessary, situation for better management. | 1. View the request form. 2. Add options to create, update and delete the form. 3. Save the changes properly. |
| Generate monthly repair report | 219 | As the repair manager, I need to generate a repair management report of all repair service for analyses. | 1. Create function to get necessary details. 2. Create generate monthly report function. 3. Add option to download the report. |

**IT21255410 - Malwaththa M.A.G.I.**

**Epic – Inventory Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Login to the system as an inventory manager | 311 | “As an Inventory manager I have want a login system, then I can restrict the access for unauthorized users” | 1.Create a model for the user  2.Create login page  3.display login options  4.create database  5.validate login details |
| Register on the system | 312 | “As a new Manager I want to register into the system, then I can access to the system” | 1.Create a signup page  2.Create a registration form  3.validate form data  4.insert data into the database |
| User profile | 313 | “As an inventory manager I want to maintain my profile details” | 1.Create a model for the profile  2.Create a profile page  3.Create a profile update page  4. Create a profile delete page  5.validate Updated Details  6.update the profile details in the database |
| Logout | 314 | “As an Inventory Manager, I want to logout from the system”, its Add more security to the system | 1.Create a logout page  2.Create a Logout confirm page |
| Reset password | 315 | “As an Inventory Manager, if I forgot my password, I want to rest it” | 1.Create a reset password page  2.Create reset Password Done page  3.Validate password  4.Update the Database |
| Inventory Manage | 316 | “As an Inventory Manager, I Have to Manage Inventory, when the supplier supplies goods” | 1.Create an Inventory Model  2.Connect to the database  3.Create add Item form  4.Create an update Item form  5.Create add item page  6.Create an update item page  7.Create delete item page  8.create view item page  9.Validate forms  10.pass the Database value to the dashboard  11. Update the Tables in the database |
| Generate  Reports | 317 | “As an Inventory Manager, I must generate a report to Manage Inventory System | 1.Create Inventory function for generate a report |

**IT21277436– Jayasinghe K.W.**

**Epic – Customer Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Customer registration to the system | 411 | “As a customer, I want to register to the system so that I can give my personal information” | 1. Creates a sign-up form and display to users 2. Allow users to enter their details 3. Store user details in the database and give login access |
| Customer login to the system | 412 | “As a customer, I want to login to the system so that I can create a project or purchase items” | 1. Creates a login form and display to users 2. Allow user to enter login credentials 3. Validate login 4. Redirect user to the homepage with necessary permissions |
| Edit customer details | 413 | “As a customer, I want to edit personal details so that I can keep the profile updated” | 1. Display user details on a webpage 2. Allows user to change details 3. Update database and display updated details |
| Delete customer details | 414 | “As a customer, I want to delete the account so that I can remove personal details from the system” | 1. Provides a button to delete user profile 2. Confirm deletion by the user 3. Delete every record related to the user in the database |
| Search for a customer | 416 | “As a manager, I want to search customers so that I can check their details” | 1. Provides a search area to enter name or mobile of a customer 2. Retrieve details from the database and display in a page |
| Print delivery details | 417 | “As an employee, I want to take a copy of customer delivery address so that I can print delivery address” | 1. Provide a search area to enter customer name or mobile 2. Retrieves delivery address of the relevant customer from the database 3. Provides a button to print delivery address |
| Print monthly customer report | 418 | “As a manager, I want to have a monthly customer report so that I have a count of how many customers registered to the system” | 1. Provides a calendar to select range of days 2. Retrieve customer count for the specific date range given 3. Display necessary details on the web page 4. Provides a button to print details |

I**T21277504 – Padukka P.D.M.D.**

**Epic – Finance Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Log in to the system. | 511 | “As a customer, I want to log in to the system so I can buy items.” | 1. Implement a login UI. 2. Validate login credentials. 3. Access the user database and retrieve details. 4. Direct user to the relevant page. |
|  | “As a finance manager, I want to log in to the system so I can manage finance-related works.” |
| Register to the system. | 512 | “As a finance manager, I want to register to the system so I can access the system.” | 1. Implement a registration user interface. 2. Create a registration details form. 3. Validate form data. 4. Store details to the database. |
| Search for an item. | 513 | “As a customer, I want to search for a solar inverter.” | 1. Create an input field to search for details. 2. Filter the items by the keyword. 3. Display the search items. |
| Add items to the cart. | 514 | “As a customer, I want to add a solar inverter to the cart.” | 1. Display cart items. 2. Display Quotation and service charges. 3. Provide a pay button to pay for items. 4. Direct the user to the payment page. |
| Make a Payment. | 515 | “As a customer, I want to make a payment to buy a solar inverter.” | 1. Display payment details form. 2. Validate the form details. 3. Save the details to the database. 4. Direct to bank payment gateway. |
| Manage employee salary. | 516 | “As a finance manager, I want to manage the salary and funds of the employees.” | 1. Create a salary and funds calculator. 2. Add extra allowance based on performance. 3. Save the salary details to the database. 4. Create a function to retrieve the salary details from the database. |
| Logout from the system. | 517 | “As a finance manager I want to logout from the system because it’s good for the security of the account.” | 1. Create function to logout from the system. 2. Create a logout page. |
| Generate monthly reports. | 518 | “As a finance manager, I want to generate a report of income details of the employees “ | 1. Create functions for generating reports. 2. Display the income history. |
| View History. | 519 | “As finance manager, I want to view the income history of the company.” | 1. Create history pages. 2. Create function to update and delete history. |

**IT21283994 – Athukorala P.D.**

**Epic – Promotions and offers Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Register to the system | 611 | “As the promotion manager, I want to register to the system, so that I can access to the system.” | 1. Create a registration page. 2. Store details in the database and give login access. |
| Log in to the system as an employee | 612 | “As a promotion manager, I want to log in to the system, so that I can manage promotions and offers details.” | 1. Create login page. 2. Validate login details. 3. Redirect to the promotions and offers page. |
| Edit promotions and offers details | 613 | “As the promotion manager, I want to edit promotions and offers details, so that I can keep the promotions and offers details updated.” | 1. Display promotions and offers details on web page. 2. Provide buttons to add, update and delete promotion details. 3. Allow to change details. 4. Update database and display updated details on web page. |
| Send an e-mail to registered customers | 614 | “As the promotion manager, I want to send an e-mail to registered customers about current promotions and offers details, so that customers can get an idea about promotions and offers.” | 1. Make a document with current promotion details. 2. Get newly registered customers details. 3. Send an e-mail with that document to registered customers. |
| Log in to the system as a customer | 615 | “As a customer, I want to log in to the system, so that I can see and buy products.” | 1. Create login page. 2. Validate login details. 3. Redirect to the homepage. |
| Buy products with adding promotions and offers | 616 | “As a customer, I want to buy products with adding offers, so that I can get some discounts.” | 1. Provide a button to buy product. 2. Add the items to the cart with adding discounts. |
| Search promotions and offers | 167 | “As a customer, I want to search promotions and offers by item codes, so that I can know about availability of promotions at required products.” | 1. Provide a search bar to search promotion details by item code. |
| Generate monthly sales report with promotions and offers | 618 | “As the promotion manager, I want to generate monthly sales report after adding discounts, so that I can get an idea about boosted sales.” | 1. Add button to generate monthly report to the relevant web page. 2. Provide an option to download the report. |

**IT21281846 – Hapuarachchi T.L.**

**Epic – Project Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User Story ID** | **User Story** | **Tasks** |
| Login to the administration system | 711 | “As the project manager I want to log into the system so that I can manage all projects tasks” | 1. Create login page  2. Create login form  3. Create relevant table in database  4. Validate login credentials |
| Update Administration login Credentials | 712 | “As the project manager I want update login credentials so that I can maintain project securely” | 1. Add a button to reset password in the admin profile  2. Create a Password reset page  3. Create a form to add new password  4. Implement a function to Save new password in the Database |
| Search Project | 713 | “As the project manager I want to search so that I can check finished projects, ongoing projects, and progress of project.” | 1. Create Search field and filter tabs  2. Create function for operate search  3. Create a page to display ongoing and finished project clearly |
| View Project | 714 | “As the project Manager I want to View project so that I can check project details” | 1. Create a page to display project details  2. Display all project details to relevant project. |
| Update Project Details | 715 | “As the project Manager I want to update project detail so that I can add new details about project” | 1. Display the Current project Details  2. Provide an edit Button to Update  3.Updating the changes of project on the System. |
| Delete Project | 716 | “As the project Manager I want to delete unwanted project a so that I can avoid unnecessary complications” | 1. Display the Relevant project  2. Provide a delete button to Delete  3. Delete Complete project from the system |
| Add New Projects | 717 | “As the project Manager I want to add new project so that I can add new projects and details to the system” | 1. Create an Add New Button to add a new project  2.Create a new page and form to add details  3. Add a new project and its detail to the database |
| Generate Monthly Report | 718 | “As the project Manager I want to Generate report end of month so that I can send analyzed full report to Manager and another basic report to customer” | 1. Represent finished project ongoing project and their progress and details.  2. Add options to Send this full project to the manager  3. Add another option to Send basic project details about relevant project for customer |

**IT21267536 – Waduge T.R.**

**Epic – Transport Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **User story ID** | **User Story** | **Tasks** |
| Login to System | 811 | “As a Transport Manager I want to  To login to system so that I can manage all tasks of the order delivery process.” | 1. Implement login function. 2. Validate login credentials of transport manager. 3. Access user data base and retrieve manager details. 4. Implement the log out function. |
|  |  |
| Manage delivery vehicles. | 812 | “ As a Transport manager I want to add a new delivery vehicle to the system so that I can quickly update newly added vehicles.” | 1. Create an interface to display registered vehicles 2. Provide an option to register new vehicle. 3. Update details of registered vehicles. 4. Delete registered vehicles. 5. Provide an option to search vehicle details by vehicle id. 6. Provide an option to generate and download report of registered delivery vehicle. |
| Distributing orders for delivery. | 813 | “ As a Transport manager I want to prepare orders for delivery so that I can generate incremental orders.” | 1. Give an option to choose between retail orders and wholesale orders. 2. Create an interface to display the list of pending deliveries. 3. Provide an option to sort the orders according to delivery town. 4. Assign delivery vehicles to the orders. |
| Calculate packing and delivery cost. | 814 | “ As a Transport manager I want to change the delivery cost assigned per kilometers so that I can match with current fuel cost” | 1. Provide an interface to display current delivery and packing cost rate. 2. Provide an option to update the costs. 3. Implement the function to assign the delivery charges according to package weight and delivery region. 4. Apply updated cost. |
| View an update order status. | 815 | “ As a transport manager I want to update the order status after completing a delivery so that I can confirm with the customer that the order is delivered successfully” | 1. Create an interface to display order status. 2. Track the dispatched order. 3. Conform product delivery and update delivery status. 4. Display the order status. |
|  |  |  |
| Generate monthly report of deliveries. | 816 | “As a Transport manager I want to generate a report of all deliveries within the month so that I can analyses them. | 1. Represent the details of monthly deliveries. 2. Provide an option to filter details and represent them in chart. 3. Add an option to download reports. |
| Login to system | 817 | “As a delivery person I want to login to system so that I can to manages all tasks that I have.” | 1. Implement the login function. 2. Validate the login credentials of delivery person. 3. Implement the logout function. |
| View assign tasks. | 818 | “As a delivery person I want to view what are the tasks assign for me so that I can manages all tasks that I assigned.” | 1. Provide an interface to view assign deliveries. 2. Provide an option view details of deliveries by searching delivery ID. |
| Send notification. | 819 | “ As a delivery person I want to send notification to transport manager after completing delivery so that I can inform transport manager delivery is done”. | 1. Provide an interface to fill details after delivering the order. 2. Provide an option to send these details to transport manager. |

**Product Backlog**

**Priority Scale**

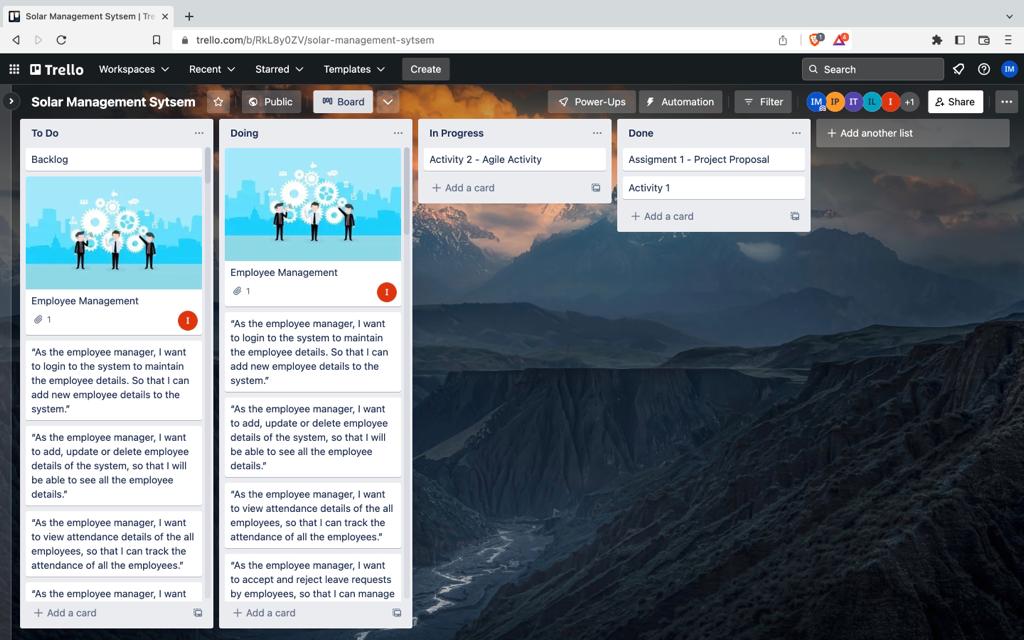
1. Highest priority
2. Normal priority
3. Less Priority

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Order ID** | **User Story ID** | **User Story** | **Estimated Hours** | **Priority** | **Status** |
|  | 111 | “As the employee manager, I want to login to the system to maintain the employee details. So that I can add new employee details to the system.” | 01 | 2 | To be started |
|  | 112 | “As the employee manager, I want to add, update or delete employee details of the system, so that I will be able to see all the employee details.” | 03 | 1 | To be started |
|  | 113 | “As the employee manager, I want to view attendance details of the all employees, so that I can track the attendance of all the employees.” | 03 | 3 | To be started |
|  | 114 | “As an employee I should be able to see my own profile, so that I can manage my details.” | 01 | 1 | To be started |
|  | 115 | “As an employee I can request a leave, so that I can get a leave.” | 04 | 1 | To be started |
|  | 116 | “As an employee I should be able to insert date, time and my Emp ID and submit. So that the manager can view those details whenever he/ she wants.” | 06 | 2 | To be started |
|  | 117 | “As a manager, I want to logout from the system, so that I can ensure the security of my account.”  “As a employee I can logout from the system, so that I can ensure the security of my account” | 04 | 2 | To be started |
|  | 118 | “As a manager I want to reset my password, so that I can reset my password if I forgot it.”  “As a employee I want to reset my password, so that I can reset my password if I forgot it.” | 03 | 3 | To be started |
|  | 119 | “As the employee manager, I want to generate monthly attendance report, so that I can send the attendance of all employees to the finance department to calculate the monthly salary of employees.” | 03 | 3 | To be started |
|  | 211 | “As the repair manager, I want to log into the system so that I can manage the service.” | 01 | 2 | To be started |
|  | 212 | “As the customer, I want to log into system that I can fill repair request.” | 01 | 2 | To be started |
|  | 213 | “As the repair manager, I need to add new repair request details to company database.” | 02 | 2 | To be started |
|  | 214 | “As repair manager, I want to assign repair groups to the requested services.” | 02 | 1 | To be started |
|  | 215 | “As the repair manager, I want to display the estimated cost to customer for referring.” | 02 | 2 | To be started |
|  | 216 | “As repair manager, I want to send all details about repair request to customers and assigned workers.” | 02 | 1 | To be started |
|  | 217 | “As the customer I need to confirm the repair request to receive service.” | 01 | 1 | To be started |
|  | 218 | “As the assigned engineer group, we want to confirm the work to process the next step.” | 01 | 2 | To be started |
|  | 219 | “As the engineer group, we need to confirm the activity that finalized.” | 02 | 3 | To be started |
|  | 220 | “As the repair manager, I need to search some repair request form to more details.” | 01 | 3 | To be started |
|  | 221 | “As the repair manager, I want to view, update and delete, when necessary, situation for better management.” | 02 | 2 | To be started |
|  | 222 | “As the repair manager, I need to generate a repair management report of all repair service for analyses.” | 02 | 3 | To be started |
|  | 311 | “As an Inventory manager I have want a login system, then I can restrict the access for unauthorized users” | 02 | 2 | To be started |
|  | 312 | “As a new Manager I want to register into the system, then I can access to the system” | 01 | 2 | To be started |
|  | 313 | “As an inventory manager I want to maintain my profile details” | 01 | 3 | To be started |
|  | 314 | “As an Inventory Manager, I want to logout from the system”, its Add more security to the system | 02 | 2 | To be started |
|  | 315 | “As an Inventory Manager, if I forgot my password, I want to rest it” | 01 | 3 | To be started |
|  | 316 | “As an Inventory Manager, I Have to Manage Inventory, when the supplier supplies goods” | 02 | 2 | To be started |
|  | 317 | “As an Inventory Manager, I must generate a report to Manage Inventory System” | 03 | 3 | To be started |
|  | 411 | “As a customer, I want to register to the system so that I can give my personal information” | 01 | 2 | To be started |
|  | 412 | “As a customer, I want to login to the system so that I can create a project or purchase items” | 04 | 2 | To be started |
|  | 413 | “As a customer, I want to edit personal details so that I can keep the profile updated” | 02 | 3 | To be started |
|  | 414 | “As a customer, I want to delete the account so that I can remove personal details from the system” | 03 | 3 | To be started |
|  | 415 | “As a manager, I want to search customers so that I can check their details” | 03 | 3 | To be started |
|  | 416 | “As an employee, I want to take a copy of customer delivery address so that I can print delivery address” | 02 | 3 | To be started |
|  | 417 | “As a manager, I want to have a monthly customer report so that I have a count of how many customers registered to the system” | 04 | 3 | To be started |
|  | 418 | “As a customer, I want to log in to the system so I can buy items.” | 01 | 2 | To be started |
|  | 511 | “As a finance manager, I want to log in to the system so I can manage finance-related works.” | 01 | 2 | To be started |
|  | 512 | “As a finance manager, I want to register to the system so I can access the system.” | 02 | 2 | To be started |
|  | 513 | “As a customer, I want to search for a solar inverter.” | 02 | 3 | To be started |
|  | 514 | “As a customer, I want to add a solar inverter to the cart.” | 06 | 2 | To be started |
|  | 515 | “As a customer, I want to make a payment to buy a solar inverter.” | 02 | 1 | To be started |
|  | 517 | “As a finance manager, I want to manage the salary and funds of the employees.” | 03 | 1 | To be started |
|  | 518 | “As a finance manager I want to logout from the system because it’s good for the security of the account.” | 01 | 2 | To be started |
|  | 519 | “As a finance manager, I want to generate a report of income details of the employees “ | 04 | 3 | To be started |
|  | 520 | “As finance manager, I want to view the income history of the company.” | 02 | 3 | To be started |
|  | 611 | “As the promotion manager, I want to register to the system, so that I can access to the system.” | 01 | 2 | To be started |
|  | 612 | “As a promotion manager, I want to log in to the system, so that I can manage promotions and offers details.” | 02 | 2 | To be started |
|  | 613 | “As the promotion manager, I want to edit promotions and offers details, so that I can keep the promotions and offers details updated.” | 03 | 3 | To be started |
|  | 614 | “As the promotion manager, I want to send an e-mail to registered customers about current promotions and offers details, so that customers can get an idea about promotions and offers.” | 03 | 3 | To be started |
|  | 615 | “As a customer, I want to log in to the system, so that I can see and buy products.” | 02 | 2 | To be started |
|  | 617 | “As a customer, I want to buy products with adding offers, so that I can get some discounts.” | 04 | 1 | To be started |
|  | 618 | “As a customer, I want to search promotions and offers by item codes, so that I can know about availability of promotions at required products.” | 03 | 3 | To be started |
|  | 619 | “As the promotion manager, I want to generate monthly sales report after adding discounts, so that I can get an idea about boosted sales.” | 04 | 3 | To be started |
|  | 711 | “As the project manager I want to log into the system so that I can manage all projects tasks” | 02 | 2 | To be started |
|  | 712 | “As the project manager I want update login credentials so that I can maintain project securely” | 03 | 2 | To be started |
|  | 713 | “As the project manager I want to search so that I can check finished projects, ongoing projects, and progress of project.” | 04 | 3 | To be started |
|  | 714 | “As the project Manager I want to View project so that I can check project details” | 02 | 3 | To be started |
|  | 715 | “As the project Manager I want to update project detail so that I can add new details about project” | 05 | 2 | To be started |
|  | 716 | “As the project Manager I want to delete unwanted project a so that I can avoid unnecessary complications” | 03 | 3 | To be started |
|  | 717 | “As the project Manager I want to add new project so that I can add new projects and details to the system” | 03 | 2 | To be started |
|  | 718 | “As the project Manager I want to Generate report end of month so that I can send analyzed full report to Manager and another basic report to customer” | 04 | 3 | To be started |
|  | 719 | “As a Transport Manager I want to  To login to system so that I can manage all tasks of the order delivery process.” | 01 | 2 | To be started |
|  | 811 | “ As a Transport manager I want to add a new delivery vehicle to the system so that I can quickly update newly added vehicles.” | 03 | 2 | To be started |
|  | 812 | “ As a Transport manager I want to prepare orders for delivery so that I can generate incremental orders.” | 04 | 3 | To be started |
|  | 813 | “ As a Transport manager I want to change the delivery cost assigned per kilometers so that I can match with current fuel cost” | 03 | 1 | To be started |
|  | 814 | “ As a transport manager I want to update the order status after completing a delivery so that I can confirm with the customer that the order is delivered successfully” | 02 | 2 | To be started |
|  | 815 | “As a Transport manager I want to generate a report of all deliveries within the month so that I can analyses them. | 04 | 3 | To be started |
|  | 816 | “As a delivery person I want to login to system so that I can to manages all tasks that I have.” | 03 | 2 | To be started |
|  | 817 | “As a delivery person I want to view what are the tasks assign for me so that I can manages all tasks that I assigned.” | 03 | 3 | To be started |
|  | 818 | “ As a delivery person I want to send notification to transport manager after completing delivery so that I can inform transport manager delivery is done”. | 04 | 3 | To be started |

**1st Sprint**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Priority** | **Product Backlog Item** | **Tasks** | **User Story ID** | **Est.Hours** | **Owner** |
| 1 | Create database. | Create employee table. | 110 | 01 | IT21284120 |
| Create repair items table. | 01 |
| Create Inventory table. | 01 |
| Create customer table. | 01 |
| Create finance table. | 01 |
| Create promotions and offers table. | 01 |
| Create Project table. | 01 |
| Create transport table. | 01 |
| 1 | Insert, delete, update employee details. | Can edit or update additional employee details. | 112 | 01 | IT21284120 |
| If an employee is resigning, can be delete details from the database. | 01 |
| Display to enter the user details. | 0.5 |
| 1 | Add new repair request details to system. | Create repair request form. | 212 | 01 | IT21283062 |
| Save the details into system. | 01 |
| 1 | Assign repair service group to service. | Implement to check group status function. | 213 | 01 | IT21283062 |
| If group is available assign the work if not check next. | 0.5 |
| Create page to display information. | 01 |
| 1 | Inventory Manage. | Create an Inventory Model. | 316 | 01 | IT21255410 |
|  | Connect to the database. | 01 |
| Create add item form. | 0.5 |
| Create an update Item form. | 01 |
| Create add item page. | 0.5 |
| Create an update item page. | 01 |
| Create delete item page. | 01 |
| create view item page. | 01 |
| Validate forms. | 01 |
| pass the Database value to the dashboard. | 01 |
| Update the Tables in the database. | 01 |
| 1 | Generate  Reports. | Create Inventory function for generate a report. | 317 | 01 | IT21255410 |
| 1 | Edit customer details | Display user details on a webpage. | 413 | 0.5 | IT21277436 |
| Allows user to change details. | 01 |
| Update database and display updated details | 01 |
| 1 | Delete customer details | Provides a button to delete user profile. | 414 | 01 | IT21277436 |
| Confirm deletion by the user. | 01 |
| Delete every record related to the user in the database. | 01 |
| 1 | Search for an item. | Create an input field to search for details. | 513 | 01 | IT21277504 |
| Filter the items by the keyword. | 02 |
| Display the search items. | 01 |
| 1 | Add items to the cart. | Display cart items. | 514 | 01 | IT21277504 |
| Display Quotation and service charges. | 01 |
| Provide a pay button to pay for items. | 0.5 |
| Direct the user to the payment page. | 01 |
| 1 | Edit promotions and offers details | Update database and display updated details on web page. | 613 | 01 | IT21283994 |
| Provide buttons to add, update and delete promotion details. | 01 |
| Allow to change details. | 01 |
| Update database and display updated details on web page. | 01 |
| 1 | Send an e-mail to registered customers | Make a document with current promotion details. | 614 | 0.5 | IT21283994 |
| Get newly registered customers details. | 01 |
| Send an e-mail with that document to registered customers. | 01 |
| 1 | Search Project | Create Search field and filter tabs. | 713 | 01 | IT21281846 |
| Create function for operate search. | 02 |
| Create a page to display ongoing and finished project clearly | 0.5 |
| 1 | View Project | Create a page to display project details. | 714 | 01 | IT21281846 |
| Display all project details to relevant project. | 01 |
| 1 | Manage delivery vehicles. | Create an interface to display registered vehicles. | 812 | 01 | IT21267536 |
| Provide an option to register new vehicle. | 01 |
| Update details of registered vehicles. | 01 |
| Delete registered vehicles. | 0.5 |
| Provide an option to search vehicle details by vehicle id. | 01 |
| Provide an option to search vehicle details by vehicle id. | 01 |
| 1 | Distributing orders for delivery. | Give an option to choose between retail orders and wholesale orders. | 813 | 0.5 | IT21267536 |
| Create an interface to display the list of pending deliveries. | 01 |
| Provide an option to sort the orders according to delivery town. | 01 |
| Assign delivery vehicles to the orders. | 01 |

**Kanban Board**

****

[**https://trello.com/b/RkL8y0ZV/solar-management-sytsem**](https://trello.com/b/RkL8y0ZV/solar-management-sytsem)