



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 – 2023

Project Charter

Title of the Project:	Online marketplace for homestays.	
Campus & Batch:	Malabe (weekday) – Batch 4	Group No: T52
Development Technology:	MERN Stack Technology	

Description of the Project:

Our client is Mr. N.T.D.T. Nallaperuma and he is a SaaS service provider. He has an idea to bridge the gap between people who are looking for rental properties and property owners. This provides a platform for property owners to rent out their homes, rooms, apartments etc. Also, if they want a transport their belongings from one place to another or if they are looking for place where to buy furniture's they can find nearest furniture showroom through our website. This platform will empower property owners to earn extra income by listing their homestays on the website and renting them out, and it will also provide people to new and unique experiences. However, there is a need for a centralized platform that makes it easy for people to find and book the perfect homestay for their needs.

To address this gap in the market, we are developing an online marketplace for homestays. Our platform will allow people to search and book a wide variety of homestays offered by local hosts. We will also provide a user-friendly interface for local hosts to list their properties and experiences, manage their bookings. Our goal is to provide a comprehensive solution that meets the needs of both people and local hosts.

We will build our online marketplace using the MERN stack (MongoDB, Express, React, and Node.js). This technology stack provides a robust and scalable solution that can handle the demands of a growing platform. Our web application will be highly responsive and optimized for both desktop and mobile devices, providing users with a seamless and convenient experience no matter how they access the platform. The user interface will be designed with simplicity and ease-of-use in mind, making it easy for people and local hosts to navigate and use the platform with confidence.

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

	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Maleesha K.L.D.D.S	IT21166488	0766598143	it21166488@my.sliit.lk
2.	Heshan W.A.S	IT21183768	0710664505	it21183768@my.sliit.lk
3.	Ranawaka W.E.I	IT21233562	0762863658	it21233562@my.sliit.lk
4.	Bandara N.G.S.S.M	IT21186424	0711714193	it21186424@my.sliit.lk
5.	Jayathilaka A.W.N.M	IT21184376	0763698528	it21184376@my.sliit.lk
6.	Chamaleen D.B.N	IT21182846	0716377078	it21182846@my.sliit.lk
7.	Wasana K.H.I.M	IT21197796	0703636127	it21197796@my.sliit.lk
8.	Dhananjana B.K.T	IT21240706	0776927338	it21240706@my.sliit.lk



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List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Maleesha K.L.D.D.S	Listing Management System is one of the main key feature of our website that allowing property owners to manage their own rental properties. Property owners can add their own properties to our website. If the property owner wants to add a property to the system, system will collect important information regarding their listings, including the name of the property, category, location, and images, as well as key details. All listings are securely stored in a database, and users can easily update or delete their listings as needed. Deleted listings are no longer accessible by other users on the website. Additionally, they can view how many reservations are there and they can generate personalized income reports based on the data collected through the Listing Management System.
2.	Heshan W.A.S	Payment Management System - All transactions in our web application are managed. through this section. This section governs the payments made by the traveler while booking a resort and getting a mode of transportation. They can see a summary of all their transactions, Also, the money allocations of site owner, transport provider and travel guide will be updated in their profile page. The transactions can be updated and deleted whenever necessary. When a user cancels his booking, his payment will be returned. All transactions through the web application are recorded and transaction reports can be obtained whenever required.
3.	Ranawaka W.E.I	User Profile Management System - Is the place where a user can update his personal information like name, email, phone number, personal address. Manage payment method (add/remove credit or debit card), Manage privacy (Delete account), Manage Login and Security Details (Change password), Under manage reservation and booking view old and new booking details, view reservation confirmation, update booking details option for getting a report about users' all booking details. Notification place user get notified when their reservation is confirmed.
4.	Bandara N.G.S.S.M	Blog Management System - In order to provide a very good service to the client, we provide a blog article service through our web application. There, special places for tourists, special facilities of hotels, special importance of tourist places are published in the application through blogs and thus the client gets information. can be taken as well. In the same way, the control section of the web application also updates new information and deletes unnecessary, unimportant or unnecessary information.
5.	Jayathilaka A.W.N.M	Furniture showroom management system helps to customers to buy furniture if they need by nearest showroom when the someone rent an unfurnished rental house. If any showrooms owners(users) can publish their showroom through our system. Owner needs to fill showroom name, location, images, contact numbers, which category of furniture customers can buy, etc. All details are stored in databased. If owner want to delete or update about already added details, he can do that. In additionally owner can generate a report what kind of furniture add withing the time-period.



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6.	Chamaleen D.B.N	<p>Transport management system is designed to provide a convenient and efficient way for users to transport their belongings from one place to another. Before publishing the transportation service, the system collects personal information from drivers such as their name, ID number, address, and vehicle number etc. This information is used to verify the identity of drivers and to ensure that the transportation service is carried out smoothly. The system features a dashboard for the drivers to manage requests from customers who are requesting transportation services. The dashboard allows drivers to view the requests and track the status of each request.</p> <p>Additionally, drivers can generate a report regarding their transportation service, how much was earned. This report can be used to track the performance of the transportation service and to make improvements where necessary.</p>
7.	Wasana K.H.I.M	<p>User management system is one of the essential components of this functionality. All users are managed via the user management system. Access any of the system's features, users must first sign up and user details can be viewed through user management system. If there are any requirements for adding new users, user can be added with giving users' name, id, phone number, address and can be made changes if have some updates about user details. Furthermore, can be deleted user account if user violated system rules and policies or if they need to remove their account. Provide a monthly report containing data on all users who have registered with the system.</p> <p>Pending list management has responsibility to give approval or rejection according to searching accuracy of posted details. When user post details such as homes, vehicles, showrooms and they must get approval from pending list management to publish.</p>
8.	Dhananjana B.K.T	<p>Legal Contact and Support Center Management System</p> <p>Legal Contact provides to users for contact lawyers. After Lawyer registered with the system, retrieving those details, and adding other features such as experiences and position, then represent all details and user can contact lawyers by that information.</p> <p>The Support Center manages and assists in the resolution of all user problems with the system, which is managed by an administrator. when a user is submitting the form.</p> <p>The administrator can respond to the problem that has been reported. The user is submitting form information such as name, email, phone number, address, date, priority level, and problem.</p> <p>In addition, the administrator should be able to add a reply, update the solution status as solved or unsolved, view user and reply to details, and delete previous users.</p> <p>If necessary, user details can be retrieved by searching through the submitted date. and it can generate a report within a given time period.</p>