



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2023

### Project Charter

<b>Title of the Project :</b>	Tourism and Travel Management System	
<b>Campus &amp; Batch :</b>	Y2.S2.IT WD.04.1 - Malabe	Group No: T44
<b>Development Technology :</b>	MERN Stack	

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

Project Aim is to provide complete solutions for handling several parts of the tourist and travel sector. The project is designed to meet the requirements of tourists, tour guides, booking agencies, and other industry participants.

#### **The project will include the following features:**

- A user-friendly web interface and mobile application for travelers to plan and book their trips.
- A comprehensive database of travel-related services and destinations.
- Integration with various third-party APIs to provide real-time data and updates on hotels, car rentals, and other travel-related services.
- The project is expected to bring benefits to all stakeholders involved in the tourism and travel industry, by streamlining operations, reducing costs, and improving the overall travel experience for tourists

#### **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.	Thuduvage I.M.H.G	IT21169380	0771886641	isurusanka98@gmail.com
2.	Madusanka G.K.I	IT21189944	0766859740	Isharamadusanka410@gmail.com
3.	Ekanayaka E.M.D.K.L	IT21186042	0703248686	it21186042@my.sliit.lk
4.	Kodithuwakku C.K.	IT21156960	0786714662	chamith227@gmail.com
5.	Arandara S.D.	IT21164330	0779920805	It21164330@my.sliit.lk
6.	Karunarathne R.Y.D.	IT21169144	0788095559	it21169144@my.sliit.lk
7.	Navindi R.L.S.	IT21166174	0770507538	navilokumanage@gmail.com
8.	Sumanasekara W.H.U.	IT21184444	0719963107	sumanasekaraupamali@gmail.com



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

	Name with Initials	Brief Description of the Function
1.	Thuduvage I.M.H.G.	<b>User Management:</b> Allows users to create an account by providing personal information,. Verifies the identity of users by checking the provided credentials against the stored data. Assigns different roles (e.g., administrator, hotel owner, vehicle owner, customer) to users and defines the actions they can perform in the system based on their roles. Stores and displays user information, such as contact details, travel history, booking details and preferences. Allows users to reset forgotten passwords and enforce strong passwords to enhance security. Facilitates the management of user accounts, such as updating information, disabling accounts, and managing permissions.
2.	Madusanka G.K.I	<b>Tour packages Management :</b> Tour package management refers to the process of organizing and selling travel packages to individuals or groups. Selecting and combining various travel components like accommodation, tours, and transfers to create attractive and competitive tour packages. Generally, offer a variety of package tours to cater to the needs of various kinds of travelers. Some packages are Day tours, round tours, Tailor-made tours, etc. Customers can also check tours using filters along with their requirements After checking the customer's feedback, packages will be updated or removed.
3.	Ekanayaka E.M.D.K.L.	<b>Finance and Inquiry management :</b> All the financial parts will handle and provide a dashboard. It is possible for customers to call, or to mail when further details are needed. Additionally, they can reach through inquiries too. There is a payment portal available to customers, providing a much more accurate and convenient payment method. FAQs are also included, which ensures that customers receive the solution as soon as they receive the questions, thus allowing everyone visiting the page to gain a better understanding of what will be happening.
4.	Kodithuwakku C.K.	<b>Residences Management :</b> The Residence Management system helps customers choose the best hotel by providing a comprehensive and user-friendly interface for managing residency. Hotel owners fill out a registration form, which is reviewed and approved or rejected by the administrators. Once approved, the system displays the hotel's details, including its price, for customers to search and select the best option. Also, customers can search and select hotels according to their preferences(using filters). Resident managers can update or delete their details and generate performance reports. Visitors can check the availability of the rooms that manage by the hotels, and the visitor can find information about the room, The web application will maintain a calendrer for every room that shows the availability of the room.



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5.	Karunarathne R.Y.D.	<b>Vehicle Reservation Management :</b> Customers can monitor availability and specifications, reserve vehicles online, and process payments securely. vehicle owners can submit a vehicle registration form, whereby their vehicles can be included in the system, with or without drivers. The system administrator is responsible for reviewing the forms and determining their approval or rejection based on established criteria. Vehicle owner can modify rental amount, and access report generation features.
6.	Arandara S.D.	<b>Flight Booking :</b> It involves selecting departure and arrival airports, choosing a travel date, selecting the number of passengers, and searching for available flights. The results are displayed and the user can choose a flight, proceed to the payment page to complete the booking, and receive a confirmation email or page with flight details. <b>Feedbacks :</b> Get feedbacks from customers and set the content sort according to given ratings
7.	Navindi R.L.S.	<b>Restaurant management/feedback :</b> If the customers need to have a meal, they can search the restaurants located in a specific area according to their preference(Chinese, Indian, Thai, etc..) and make a reservation for the restaurant and also check for menu items and prices in the particular area they are living in. When the reservation is successfully made, the customer receives a notification. When any reservation cancellation occurs, the database will delete all the details about that reservation. Additionally, customers can give feedback to the restaurant as they prefer
8.	Sumanasekara W.H.U.	<b>Special activity(sports/indoor/outdoor) management :</b> Customers can search for activities(Water rafting , diving, festivals, hiking ) to do as special by given that online system and can be deleted/updated the special activity plans. Allocation of special activities is Filtered using Location and the Price Range. It also provides real-time updates on availability and pricing. There are special and weekly events . If booking success system display success and update profile. If not display sold out. According to report, can remove unnecessary events