Sri Lanka Institute of Information Technology
Information Technology Project
Year2, Semester 2 - 2022

Project Charter

Title of the Project :	Hotel Management System – Sky Dragons	
Batch :	Weekday – Y2 S2 Group 4.1	Group No: T51
Development Technology :	JavaScript using MERN stack	

Description of the Project:

We are developing a Hotel Management system called Sky Dragons for Hotel Sky Dragons. We discovered some problems in some applications that are using in the hotels. Because of these difficulties, the hotel's total efficiency can be got down and customers may get disappointed. So, we decided to create an online management system that could control all the operations at one system. So, our Hotel management system provides necessary hotel management features such as Reservation Management, Employee management, Supplier management, Financial management, Restaurant management, Customer Management, Feedback management and Extra-Facility Management.

First, customers need an account to use the features that are provided by the hotel. Customers should register to the system by providing valid details such as Email address, contact number, address etc. Once a customer creates an account, then the customer is eligible to make a reservation and get other hotel services (mini bar, spa, pool, clubs). The system is hence useful for both customers and the owners to manage the hotel activities very efficiently.

For managing purpose, Hotel has a huge admin panel. Admin panel can add Employees to the system, add Suppliers to the system, calculate Financial reports, update Food and Beverage packages and generate reports. If Employee or Supplier wants to see their profile, they must be able to log in to their accounts with valid credentials. After login to the system Employees and Suppliers can see their profiles.

Only the Admin panel can update profile details of the Employees and the Suppliers. Admin panel also generate reports such as Basic salaries report, income and expenditure report, food consumption report regarding the particular month. As a result of this system Manager can get a brief and very clear idea about the hotel.

The users of the web application are given an opportunity to leave their feedbacks about the business as well as about the web application. According to the customer feedbacks, management of the foods and beverages will update the menus.

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.	Thisaranga B.V.Y.L.	IT20640170	0785217033	it20640170@my.sliit.lk
2.	Pulasinghe T.K.	IT20641474	0785217404	it20641474@my.sliit.lk
3.	Bandara R.M.P.C.	IT20640002	0771803460	pinsaracb@gmail.com
4.	Sithmini L.W.E.	IT20656874	0771112493	eshara99626@gmail.com
5.	Weerasinghe M.L.L.	IT20664862	0776142803	weerasinghelahiru1999@gmail.com
6.	Perera M.L.D.	IT20661410	0703848193	mldperera1998@gmail.com
7.	Kumari K.T.C.R.	IT20172046	0766233529	rumicham99@gmail.com
8.	Hansika A.G.D.R.	IT20639976	0765888479	rashinihansika98@gmail.com

List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Thisaranga B.V.Y.L.	Room reservation Management Function - • Admin can store the details of the room reservations that are made by the customers • Admin can manage the available room reservations • Admin can create, view, update and delete room packages in the system • Admin can add rooms and room details to the system • Customer can create, update, delete and view the relevant reservation that is made by him/her • Admin can view the report of all the room reservation details in the hotel • Admin can generate reports of room reservations of

		the hotel based on best booking rooms according to the ratings • Customer can view a room according to the search keyword he/she typed in the search bar
2.	Pulasinghe T.K.	Extra-Facility Management Function - • Admin can manage the available extra-facility reservations • Admin can create, view, update and delete extra-facility packages in the system (spa packages, club packages, mini bar packages, pool packages) • Admin can add new facilities and facility details to the system • Customer can create, update, delete and view the relevant extra-facility reservation that is made by him/her • Admin can view the report of all the facility reservation details in the hotel • Admin can generate reports of extra-facility reservations of the hotel that are consumed by the customers and best booking facilities according to the customer ratings • Customer can view a facility according to the search keyword he/she typed in the search bar • Manager can upgrade or include the facilities according to the suggestions of feedback administrator
3.	Bandara R.M.P.C.	Feedback Management Function - • Admin can store the details of the customer feedbacks • Admin can responce the customer feedbacks • Admin can generate feedback reports according to the customer feedbacks • Customer can place a feedback, update or delete his feedback • Customer can also view all the feedback messages in the system • Admin can view the customer feedback and

		• generate static feedback report • Admin can send suggestions to the extra-facility management for upgrade or include the facilities according to the customer feedbacks
4.	Sithmini L.W.E.	Financial Management Function - • Managing the income and expenditures and the basic salaries of employees in the hotel. Generating financial reports of the hotel. • Admin can store the details about the bill payments that are made by customer • Manager can manage the basic salaries of the employees • Customer can make payments and view relevant payment details that is made by him/her. • Customer can print a payment receipt about his/her payment • Admin can add discount details to the system. • Admin can view the financial reports of the hotel. • Financial manager can generate the financial reports • Financial managers are collecting details from employee department and calculate the basic salary of the employees. • Customer can show the price, discount, and ratings of the services according to the search keyword he/she typed in the search bar.
5.	Weerasinghe M.L.L.	Restaurant Management Function - • Admin can store the details of the food and beverage packages that are made by customers • Admin can create, view, update and delete food and beverage packages in the system • Admin can manage restaurant reservations • Customer can view foods according to the search keyword he/she typed in the search bar • Customer can create, update, delete and view the relevant restaurant reservation that is made by

		him/her
		• Admin can view the report of all the restaurant reservation details in the hotel
		• Admin can generate reports of restaurant reservations and food consumption of the restaurant in the hotel
		• Restaurant manager can allocate food items according to the supplier details
6.	Perera M.L.D.	Supplier Management Function - • Supplier can register to the system • Supplier can view his/her profile • Admin can manage suppliers in the system • Admin can generate reports regarding the registered suppliers and the suppling items. • Admin can update product, delete product and view the relevant product details • Suppliers delete their profile details in the system. • Suppliers can search available items and out of stock items using the search bar. • Admin can add and manage supply items details to the system. • Admin can view all the supplier's details • Admin can remove inactive suppliers in the system • Manager can increase the count of suppliers according to the restaurant management suggestions
7.	Kumari K.T.C.R.	Customer Management Function - • Customers can use the registration form to sign up for the system. • System stores customers' details in the database. • Customer has the ability to create, view, update and delete his/her personal information. • Once the customer has completed the registration process, he/she can log in to the system using his/her login credentials. • If the customer forgets his/her password, they can reset it.

		• Admin can use the search bar to look up information about registered customers. • Admin can generate monthly reports on the hotel's registered customers. • Admin can manage the customers of the system • Admin can remove the inactive customers in the system
8.	Hansika A.G.D.R.	Employee Management Function - • Admin can manage the employees in the system • Admin can register new employees to the system. • Admin can update and view the employee details in the system • Admin can remove employee details in the system • Employee can view their information in the employee profile • HR manager can generate employees' reports from recorded employees' details and their attendance • Admin can use the search bar to look up information about the employees by typing employee's id • HR manager send employee details to the financial management