

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

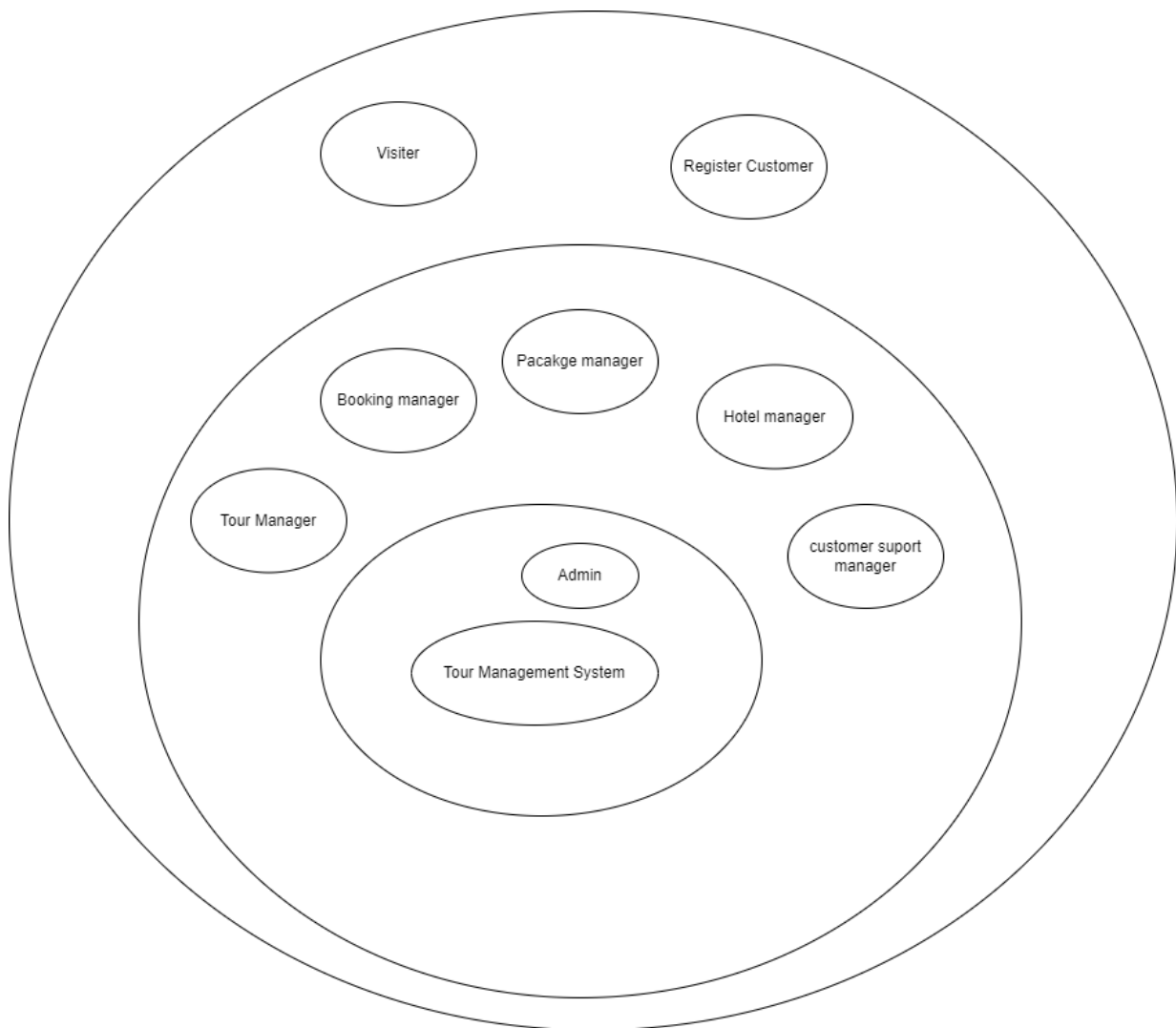
Title of the Project:	TourGenie Travel booking and Management application for Car with Private Driver Sri Lanka company	
Campus & Batch:	Malabe Y2.S.WD.IT.08.02	Group No: T43

Details of the Group Members:

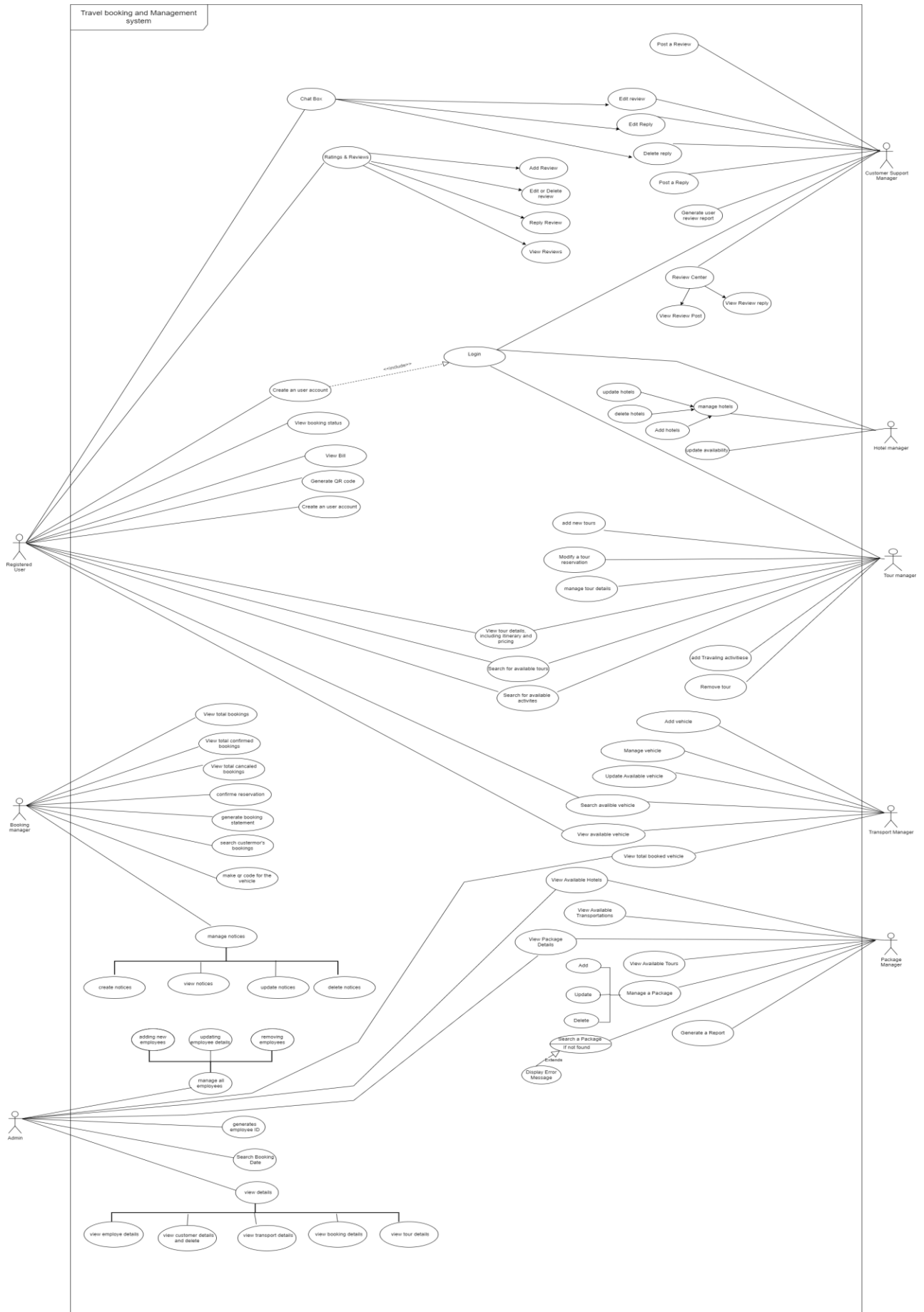
	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Herath H.M.M.D	IT21173240	0714946604	it21173240@my.sliit.lk
2.	Dissanayake D.M.W.B.T.	IT21164194	0769997546	it21164194@my.sliit.lk
3.	Tharaka P.D.G	IT21181092	0789498987	it21181092@my.sliit.lk
4.	Dhanawardhana H.M.I.K	IT21183690	0716962003	it21183690@my.sliit.lk
5.	Sandeepani A.W.S	IT21173004	0763991246	it21173004@my.sliit.lk
6.	Chathuranga K.H.D	IT21168772	0761193338	it21168772@my.sliit.lk
7.	Wijayasooriya W.A.K.A	IT21164026	0704476158	it21164026@my.sliit.lk
8.	Karunarathne D.G.V.S	IT21785610	0764500797	it21785610@my.sliit.lk

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Onion Diagram



B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1



B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Herath H.M.M.D
IT21173240

User Stories

- As an admin I want to add employee to the system so they can manage all booking
- As an admin I can generate employee ID card so I can identify the employees
- As an admin I can search booking date then I can view the booking details
- As an admin I can view customers and delete that profile so I can manage the customer

Functional Requirements

- Login – Admin
- Manage employee
- Search booking details
- View booking details, employee details, transport details, tour details and customer details.
- Generate employee ID card.

Non-functional Requirements

- Accuracy
- Readability
- Efficiency
- Maintainability
- Security
- Performance

Technical Requirements

- Back end – Node.js, Express.js
- Front end – React.js
- Database – MongoDB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	01	
Name	Add employee details	
Summary	Add new employee details	
Priority	01	
Preconditions	Admin login to the system	
Postconditions	Successfully add details of employees	
Primary Actor(s)	Admin	
Trigger	The employee manager has clicked on “Employees” button	
Main Scenario	Step	Action
	1	The Admin logs in to the system
	2	The system shows the admin dash bord
	3	The admin selects add new employee
	4	The admin enters details of employee
	5	The Admin successfully added an employee

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	01	
Name	Edit employee details	
Summary	Edit new employee details	
Priority	01	
Preconditions	Admin login to the system	
Postconditions	Successfully edit details of employees	
Primary Actor(s)	Admin	
Trigger	The admin has clicked on “Employees” button	
Main Scenario	Step	Action
	1	The admin log in to the system
	2	The system shows the admin dash bord
	3	The admin selects edit button
	4	The admin enters update details of employee
	5	The admin successfully update employee details

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	01	
Name	Remove employee details	
Summary	Remove employers	
Priority	01	
Preconditions	Admin login to the system	
Postconditions	Successfully remove the employees	
Primary Actor(s)	Admin	
Trigger	The admin has clicked on “Employees” button	
Main Scenario	Step	Action
	1	The admin logs in to the system
	2	The system shows the admin dash bord
	3	The admin selects remove button
	4	The admin removes the employee
	5	The admin successfully removes employee details

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	01	
Name	Generate employ identity card	
Summary	Edit new employee details	
Priority	01	
Preconditions	Admin login to the system	
Postconditions	Successfully edit details of employees	
Primary Actor(s)	Admin	
Trigger	The admin has clicked on “Employees” button	
Main Scenario	Step	Action
	1	The admin log in to the system
	2	The system shows the admin dash bord
	3	The admin look employ profile
	4	The admin generate employ id card
	5	The admin successful download id card

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Dissanayake D.M.W.B.T.
IT21164194

User Stories

- As a Transport Manager I want to add vehicles to the system so I can show vehicles for tourist
- As a Transport Manager I can view the total booked vehicles so I can generate a report
- As a Transport Manager I want to View available vehicles so I can add them to the system easily
- As a Transport Manager I can Update Available vehicles so I can change vehicle details in the system

Functional Requirements

- View available vehicle
- View total booked vehicle
- Manage vehical

Non-functional Requirements

- Accuracy
- Readability
- Efficiency
- Maintainability
- Security
- Performance

Technical Requirements

- Back end – Node js, Express js
- Front end – React js
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	Booking of Vehicles	
Summary	Choosing a mode of transport for a tourist to carry out his travel activities	
Priority	3	
Preconditions	Tourist has logged in to the system	
Postconditions	Successfully completes their transport	
Primary Actor(s)	Traveler	
Trigger	The Traveler has Clicked on “Booking Vehicle” button	
Main Scenario	Step	Action
	1	Traveler logs in to the system
	2	System displays available vehicles
	3	Travelers select the vehicle they want to travel
	4	The system retrieves the vehicle information booked by the traveler
	5	The System sends a vehicle to the location of the traveler
Extensions	Step	Branching Action
	1a	Traveler enters invalid credential
	1b	System displays an error message & ask to renter

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	View available vehicle	
Summary	The system shows the available vehicles to the Transport Manager	
Priority	2	
Preconditions	Transport Manager has logged in to the system	
Postconditions	Show vehicle	
Primary Actor(s)	Transport Manager	
Trigger	The Transport Manager has Clicked on “View available vehicle” button	
Main Scenario	Step	Action
	1	Transport Manager logs in to the system
	2	System display view available vehicles option
	3	The system displays available vehicles
Extensions	Step	Branching Action
	1a	Transport Manager enters invalid credential
	1b	System displays an error message & ask to renter

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	View total booked vehicle	
Summary	The system shows the total booked vehicles to the Transport Manager	
Priority	2	
Preconditions	Transport Manager has logged in to the system	
Postconditions	Show booked vehicle	
Primary Actor(s)	Transport Manager	
Trigger	The Transport Manager has Clicked on “View booked vehicle” button	
Main Scenario	Step	Action
	1	Transport Manager logs in to the system
	2	System displays total booked vehicles option
	3	The system displays total booked vehicles
Extensions	Step	Branching Action
	1a	Transport Manager enters invalid credential
	1b	System displays an error message & ask to renter

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	Add vehicle	
Summary	Entry of vehicles into the system for tours to tourists	
Priority	1	
Preconditions	Transport Manager has logged in to the system	
Postconditions	Successfully add the vehicles	
Primary Actor(s)	Transport Manager	
Trigger	The Transport Manager has Clicked on “Add Vehicle ” button	
Main Scenario	Step	Action
	1	Transport Manager logs in to the system
	2	System display add vehicles option
	3	Transport Manager selects the add vehicle option and then add the vehicle
	4	The system retrieves the vehicle information entered by the Transport Manager
Extensions	Step	Action
	1a	Transport Manager enters invalid credential
	1b	System displays an error message & ask to renter

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	Search vehicle	
Summary	Searching the type of vehicle, the Tourist wants to travel.	
Priority	3	
Preconditions	Tourist has logged in to the system	
Postconditions	Choosing the vehicle	
Primary Actor(s)	Tourist	
Trigger	The Tourist has Clicked on “Search Vehicle” button	
Main Scenario	Step	Action
	1	Tourist logs in to the system
	2	System display Search vehicles option
	3	Tourist selects the Search vehicle option and then Search the vehicle type
	4	The system retrieves the vehicle information entered by the tourist
	5	The system shows the entered vehicle type
Extensions	Step	Branching Action
	1a	Tourist enters invalid credential
	1b	System displays an error message & ask to renter

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Tharaka P.D.G
IT21181092

Functional Requirements

- Login
- View total bookings.
- View total confirmed bookings.
- View total cancelled bookings.
- confirmed reservation.
- make QR code for the vehicle.
- search customer's bookings
- generate booking statement.
- manage notices..

Non-functional Requirements

- Accuracy
- Efficiency
- Performance
- Security
- Maintainability

Technical Requirements

- Front end – React JS
- Back end – Node JS, Express
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Search Customer Bookings	
Summary	Allows booking managers to search for a customer's bookings in the system	
Priority	1	
Preconditions	Booking manager must be logged in to the system, customer must have made at least one booking in the system	
Postconditions	Booking manager can view a list of the customer's bookings in the system	
Primary Actor	Booking Manager	
Trigger	Booking manager clicks on "Search Customer Bookings" button	
Main Scenario	step	action
	1	Booking manager navigates to the "Customers" section of the system
	2	Booking manager enters the customer's name or ID into the search bar
	3	System displays a list of customers matching the search criteria
	4	Booking manager selects the desired customer from the list
	5	System displays a list of the customer's bookings, including details
Extensions	Step	action
	5a	if the customer has not made any bookings in the system, system displays a message stating that there are no bookings to display.
	5b	If there are no customers matching the search criteria, system displays a message stating that there are no customers to display

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Generate Booking Statement for Driver	
Summary	Allows booking managers to generate a statement of a customer's booking details for a specific date range to be given to a driver who will transport the customer	
Priority	2	
Preconditions	Booking manager must be logged in to the system, customer must have made at least one booking in the system, a driver must be assigned to the booking	
Postconditions	Booking manager can view a statement of the customer's booking details	
Primary Actor	Booking Manager	
Trigger	Booking manager clicks on "Generate Booking Statement" button	
Main Scenario	step	action
	1	Booking manager navigates to the "booking" section of the system
	2	System displays a list of customers appointments
	3	Booking manager click statement button
	4	System generates a statement that includes the customer's name, address, and contact details etc..
	6	Booking manager can save the statement or print a copy
Extensions	Step	action
	6a	If statement is already saved system display “Already saved” message

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Manage Notices	
Summary	Allows booking managers to manage notices by creating, viewing, updating, and deleting notices for its customers	
Priority	2	
Preconditions	The booking manager must be logged in to the system, and there must be a list of customers with their contact information	
Postconditions	The booking manager can view the status of notices (sent, delivered, read, etc.) and make changes to the notice as needed	
Primary Actor	Booking Manager	
Trigger	Booking manager clicks on "Manage Notices" button	
Main Scenario	step	action
	1	Booking manager logs in to the system
	2	System displays the booking manager's dashboard
	3	Booking manager clicks on "Manage Notices" button
	4	system displays a list of existing notices and an option to create a new notice.
	5	Booking manager chooses to create a new notice
	6	System displays a form where the booking manager can input the notice details (title, message, etc.)
	7	Booking manager submits the form to create the notice
	8	System saves the notice and sends it to the customer Ui
	9	Booking manager can view the list of notices and select a notice to update or delete
	10	Booking manager selects a notice to update or delete
	11	System displays the details of the selected notice and provides options to update or delete the notice
	12	Booking manager can save the statement or print a copy

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

	13	System displays a form pre-filled with the existing notice details that can be edited by the booking manager
	14	Booking manager submits the updated form to save the changes
	15	System saves the updated notice and sends it to the selected recipients
	16	Booking manager chooses to delete the notice
	17	System displays a confirmation message to confirm the booking manager's decision
	18	Booking manager confirms the deletion of the notice
	19	Booking manager can save the statement or print a copy
Extensions	Step	action
	4a	If there are no existing notices, the system displays a message indicating that there are no notices to manage
	7a	If the booking manager leaves any required fields blank, the system displays an error message prompting the booking manager to fill in the missing information
	9a	If there are no notices to view, the system displays a message indicating that there are no notices to display
	11a	If the booking manager selects to delete a notice, the system displays a confirmation message to confirm the booking manager's decision
	13a	If the booking manager leaves any required fields blank when updating a notice, the system displays an error message prompting the booking manager to fill in the missing information.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	View Total Confirmed Bookings	
Summary	Allows booking managers to view the total number of confirmed bookings made in the system	
Priority	3	
Preconditions	Booking manager must be logged in to the system	
Postconditions	Booking manager can view the total number of confirmed bookings made in the system	
Primary Actor	Booking Manager	
Trigger	Customer has registered to system	
Main Scenario	Step	Action
	1	Booking manager navigates to the "Bookings" section of the system
	2	Booking manager selects "View Total Confirmed Bookings"
	3	System displays the total number of confirmed bookings made in the system
Extensions	Step	Action
	2.a	If there are no confirmed bookings in the system, system displays a message stating that there are no confirmed bookings to display.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	View Total Cancelled Bookings	
Summary	Allows booking managers to view the total number of cancelled bookings made in the system	
Priority	3	
Preconditions	Booking manager must be logged in to the system	
Postconditions	Booking manager can view the total number of cancelled bookings made in the system	
Primary Actor	Booking Manager	
Trigger	Booking manager clicks on "View Total Cancelled Bookings" button	
Main Scenario	Step	Action
	1	Booking manager navigates to the "Bookings" section of the system
	2	Booking manager selects "View Total Cancelled Bookings"
	3	System displays the total number of cancelled bookings made in the system
Extensions	Step	Action
	3.a	3a. If there are no cancelled bookings in the system, system displays a message stating that there are no cancelled bookings to display.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Confirm Reservation	
Summary	Allows booking managers to confirm a reservation made by a customer	
Priority	3	
Preconditions	Booking manager must be logged in to the system, a reservation must exist in the system and be in an unconfirmed state	
Postconditions	Reservation is confirmed in the system and customer is notified of confirmation	
Primary Actor	Booking Manager	
Trigger	Booking manager clicks on " Confirm Reservation " button	
Main Scenario	Step	Action
	1	Booking manager receives a reservation request from a customer
	2	Booking manager navigates to the "Reservations" section of the system
	3	Booking manager selects the unconfirmed reservation from the list of reservations
	4	System displays the details of the reservation
	5	Booking manager reviews the reservation details and confirms the reservation
	6	System updates the reservation status to "Confirmed"
	7	Booking manager selects the unconfirmed reservation from the list of reservations System updates the reservation status to "Confirmed"
Extensions	Step	Action
	5.b	If the reservation details are incorrect or need to be modified, booking manager contacts the customer to discuss changes and updates the reservation details in the system.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Dhanawardhana H.M.I.K
IT21183690

User story

- 1.As a hotel manager I want to add/ update/ delete hotel details, so that I can manage hotels.
- 2.As a customer I want to search hotels from the system, So that I can select a hotel for my tour.
- 3.As a hotel manager I want to update availability to system, so that I can update available hotels to the system.

Functional Requirements

- Login (hotel manager)
- Add hotels with details.
- Update hotel details
- Delete hotel details.
- Search hotels
- View hotel details
- Update availability of hotels

Non-Functional Requirements

- Accuracy
- Reliability
- Maintainability
- Efficiency
- Usability

Technical Requirements

- Front end - react js
- Back end – node js , express js
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS01	
Name	Manage hotels	
Summary	Add/update/delete hotel details	
Priority	4	
preconditions	Login to the system using login credential	
Postconditions	Customer can search hotels and view hotel details	
Primary Actor	Hotel manager	
Trigger	Hotel manager has login to the system	
Main scenario	step	Action
	01	Login to the system using login credentials
	02	Go to hotel management UI
	03	By clicking Add button hotel manager can add hotels to the system with details
	04	System shows successful message when clicking on save button
	05	By clicking update button hotel manager can update hotel details
	06	By clicking delete button hotel manager can delete hotel details from the system
Extensions	step	Branching Action
	1a	System notifies if username is incorrect, ask for valid username
	1b	System notifies if password is incorrect, ask for valid password
Open issues		

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS02	
Name	Search hotel	
Summary	Registered customer can search hotels	
Priority	3	
preconditions	Login to the system using login credential	
Postconditions	Customer can search hotels	
Primary Actor	customer	
Trigger	customer must register to the system	
Main scenario	Step	Action
	01	Login to the system using login credentials
	02	Go to home page
	03	Click on hotel
	04	Check booking details from hotel service provider
	05	Show booking status to the traveler
Extensions	Step	Branching Action
	1a	System notifies if username is incorrect, ask for valid username
	1b	System notifies if password is incorrect, ask for valid password
Open issues		

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS03	
Name	Update Availability	
Summary	Update available hotels to the system	
Priority	3	
preconditions	Login to the system using login credential	
Postconditions	Customer can see available hotels	
Primary Actor	Hotel manager	
Trigger		
Main scenario	step	Action
	01	Login to the system using login credentials
	02	Go to hotel manage UI
	03	Click on availability button
	04	Check booking details from hotel service provider
	05	Show available hotels to the system
Extensions	step	Branching Action
	1a	System notifies if username is incorrect, ask for valid username
	1b	System notifies if password is incorrect, ask for valid password
Open issues		

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Sandeepani A.W.S
IT21173004

User stories

- As a customer I want to register to the system so I can go for a booking
- As a customer I can create a user profile so I can edit and delete my details
- As a customer I can generate my QR code then I can connect with my drivers very easily
- As a customer I can view booking status so I can book hotels very easily

Functional requirements

- Register - customer
- Login – Customer
- Create user account.
- View Bill
- Generate QR code.
- View booking status

Non-functional requirements

- Accuracy
- Readability
- Efficiency
- Maintainability
- Security
- Performance

Technical requirements

- Back end – Node js, Express js
- Front end – React js
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS001	
Name	Login	
Summary	Customer can login to the system	
Priority	5	
Preconditions	Customer has visited to Login page	
Primary Actors	Customer	
Main Scenario	Step	Action
	01	User clicks the “Login” button
	02	System displays the login form.
	03	User input the email and password.
	04	User clicks the login button.
	05	System checks whether the user is an already registered
Extensions	Step	Action
	03.a	System loads the registration form.
	03.b	Users fill the registration form and submit it.
	03.c	System loads the current page.
	05.a	System checks the username and recognizes that the user is an admin.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS002	
Name	Sign up	
Summary	Customer can sign up and to create a user account	
Priority	5	
Preconditions	Visit the web page	
Postconditions	User can create new account and log in.	
Primary Actor	Customer	
Trigger	Customer has registered to system	
Main Scenario	Step	Action
	1	Users go to home page
	2	display registration button and go to the register page.
	3	User inputs user details
	4	User creates username and password
	5	password type it twice
	6	System checks user input and checks data validation
	7	System creates the new account.
	8	User log into the system.
Extensions	Step	Action
	4.a	user input invalid password display message, enter another password
	5.a	System notifies if both passwords did not match, display an error message.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

	6.a	User input invalid data display error message
--	-----	---

Number	TGS003	
Name	View bill	
Summary	After the booking customer can view their bill	
Priority	5	
Preconditions	Customers must finish all the bookings	
Postconditions	They can do their payments	
Primary Actor	Customer	
Trigger	Customer has registered to system	
Main Scenario	Step	Action
	1	Users go to home page
	2	Login to the system
	3	Then they can search hotels, packages, and transport
	4	After selecting their packages, they can do their bookings
	5	After all the bookings done, it shows a button “Generate Bill”
	6	When the customer clicks “generate bill” button it generates the bill and send it to the customer
Extensions	Step	Action
	2.a	user input invalid password display message, enter another password

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS004	
Name	View booking status	
Summary	When the customer is going to book hotels, it shows whether the hotels are available or not	
Priority	5	
Preconditions	Customers must log in to the system	
Postconditions	Then they can view booking status	
Primary Actor	Customer	
Trigger	Customer has registered to system	
Main Scenario	Step	Action
	1	Users go to home page
	2	Login to the system
	3	Then they can search hotels, packages, and transport
	4	It shows if the hotels were already booked or not
Extensions	Step	Action
	2.a	user input invalid password display message, enter another password

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	TGS005	
Name	View QR code	
Summary	After the booking customer can view their QR code which is included their details	
Priority	4	
Preconditions	Customers must finish all the bookings	
Postconditions	by showing QR code they can confirm their identification	
Primary Actor	Customer	
Trigger	Customer has registered to system	
Main Scenario	Step	Action
	1	Users go to home page
	2	Login to the system
	3	Then they can search hotels, packages, and transport
	4	After selecting their packages, they can do their bookings
	5	After all the bookings done, it shows a button “Generate Bill”
	6	When the customer clicks “generate bill” button it generates the bill and send it to the customer
	7	After the bill generated, they can generate a QR code which is included their details by clicking “generate QR” button
Extensions	Step	Action
	2.a	user input invalid password display message, enter another password

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Chathuranga K.H.D
IT21168772

User Stories

- As a tour manager, I want to create and manage tours, so that I can offer different tour options to customers.
- I want to add and edit tour details, so that I can provide accurate and up-to-date information to customers.
- I manage tour schedules, so that I can ensure that tours are properly organized and run smoothly.
- allocate resources such as vehicles, hotels, and equipment to tours, so that I can ensure that the necessary resources are available for each tour.
- manage bookings and reservations, so that I can keep track of the number of tourists on each tour.
- generate reports and analyze data, so that I can track performance, identify areas for improvement, and make informed decisions.

Functional Requirements

- The system should allow tour managers to create and manage tours, including setting tour dates, times, locations, and prices.
- The system should allow tour managers to add and edit tour details, such as tour descriptions, itineraries, and photos.
- The system should allow tour managers to manage tour schedules, including scheduling tours, rescheduling tours, and cancelling tours if necessary.
- The system should allow tour managers to allocate resources to tours, such as vehicles, hotels, and equipment.
- The system should allow tour managers to manage bookings and reservations, including accepting or rejecting bookings, issuing refunds, and managing waitlists.
- The system should allow tour managers to generate reports and analyze data, such as tour performance metrics, customer satisfaction ratings, and revenue analysis.

Non-functional Requirements

- The system should be easy to use and intuitive, with a user-friendly interface that is easy to navigate.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

- The system should be secure, with proper user authentication and access controls to protect sensitive data.
- The system should be scalable, able to handle a large volume of users and transactions without slowing down or crashing.
- The system should be reliable, with minimal downtime or system errors.
- The system should be responsive, with fast loading times and minimal latency.

Technical requirements

- Back end – Node js, Express js
- Front end – React js
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	01	
Name	Add New Tour	
Actor	Add new employee details or update existing details	
Goal	To add a new tour to the system	
Overview	Employee manager login to the system	
Preconditions	The Tour Manager has access to the system and is logged in The Tour Manager has the necessary information about the new tour, including tour name, itinerary, dates, pricing, and other relevant details.	
Postconditions	The new tour is added to the system with all relevant information	
Trigger		
Basic Path/alternative path	Step	Action
	1	The Tour Manager selects the "Add New Tour" option in the system
	2	The system displays a form to capture the details of the new tour
	3	The Tour Operator fills in the required details of the new tour, such as tour name, itinerary, dates, pricing, and other relevant details
	4	The Tour Operator submits the new tour details to the system
	5	The system confirms to the Tour Manager that the new tour has been added successfully
alternative path		If the Tour Manager is unable to complete the form, they can save a draft and come back later to complete it If there are any errors in the input data, the system displays an error message and prompts the Tour Manager to correct them before submitting again.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	02	
Name	Modify a Tour Reservation	
Actor	Tourist	
Goal	To modify an existing tour reservation in the system	
Overview	The Tourist/Administrator modifies the details of an existing tour reservation in the system	
Pre-conditions	The Tour Manager has access to the system and is logged in The Tour Manager has an existing tour reservation in the system that they want to modify	
Post-conditions	The tour reservation is modified in the system with the updated details	
Trigger		
Basic Path	Step	Action
	1	The Tour Manager selects the "Modify Reservation" option in the system
	2	The system displays the reservation details and allows the Tourist/Administrator to modify the required fields such as tour dates, number of guests, or hotel preferences.
	3	The Tour Manager makes the necessary changes to the reservation details
	4	The Tour Manager submits the modified reservation details to the system
	5	The system validates the input data and updates the reservation record with the new details
	6	The system confirms to the Tour Manager that the reservation has been modified successfully
alternative path		<p>If the Tourist/Administrator is unable to complete the form, they can save a draft and come back later to complete it</p> <p>If there are any errors in the input data, the system displays an error message and prompts the Tourist/Administrator to correct them before submitting again.</p>

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	03	
Name	Manage Tour Details	
Actor	Tourist	
Goal	To manage the details of a tour in the system	
Overview	The Tour Operator/Administrator updates the details of a tour in the system	
Pre-conditions	The Tour Operator/Administrator has access to the system and is logged in There is an existing tour in the system that needs to be updated	
Post-conditions	The tour details are updated in the system with the new information	
Trigger		
Basic Path/alternative path	Step	Action
	1	The Tour Operator/Administrator selects the "Manage Tours" option in the system
	2	The system displays a list of existing tours
	3	The system displays the details of the selected tour and allows the Tour Manager to modify the required fields such as tour name, itinerary, dates, pricing, and other relevant details.
	4	The Tour Manager makes the necessary changes to the tour details
	5	The Tour Manager submits the modified tour details to the system
	6	The system validates the input data and updates the tour record with the new details
	7	The system confirms to the Tour Operator/Administrator that the tour details have been updated successfully
alternative path		If the Tour Operator/Administrator is unable to complete the form, they can save a draft and come back later to complete it

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

		If there are any errors in the input data, the system displays an error message and prompts the Tour Operator/Administrator to correct them before submitting again.
--	--	--

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	03	
Name	View Tour Details, Including Itinerary and Pricing	
Actor	Tourist	
Goal	To view the details of a tour, including itinerary and pricing	
Overview	The Tourist searches for and views the details of a specific tour, including itinerary and pricing information	
Pre-conditions	The Tourist has access to the system and is logged in The Tourist has a specific tour in mind that they want to view the details	
Post-conditions	The Tourist can view the tour details, including itinerary and pricing information	
Trigger		
Basic Path/alternative path	Step	Action
	1	The Tourist selects the "Search Tours" option in the system
	2	The system displays a search form that allows the Tourist to search for tours based on various criteria such as tour location, dates, or price range
	3	The Tourist enters the search criteria and submits the form
	4	The system displays a list of tours that match the search criteria
	5	The Tourist selects the tour they are interested in viewing
	6	The system displays the tour details, including itinerary and pricing information
	7	The Tourist reviews the details of the tour
alternative path	. If the Tourist does not find any tours that match their search criteria, the system displays a message indicating no tours were found If the Tourist encounters any technical issues, such as a system error or slow loading times, the Tourist may try to refresh the page or contact customer support for assistance	

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	4	
Name	Search for Available Tours	
Actor	Tourist	
Goal	To search for available tours based on specific criteria	
Overview	The Tourist searches for available tours based on location, dates, and other criteria to find a tour that meets their needs	
Pre-conditions	The Tourist has access to the system and is logged in The Tourist has a specific location or date range in mind for their tour	
Post-conditions	The Tourist is able to view a list of available tours that match their search criteria	
Trigger		
Basic Path/alternative path	Step	Action
	1	The Tourist selects the "Search Tours" option in the system
	2	The system displays a search form that allows the Tourist to search for tours based on various criteria such as tour location, dates, or price range
	3	The Tourist enters the search criteria and submits the form
	4	The system displays a list of tours that match the search criteria
	5	The Tourist reviews the list of available tours and selects a tour that meets their needs
	6	The Tourist can view the tour details, including itinerary and pricing information, and book the tour if they choose to do so.
alternative path		If the Tourist does not find any tours that match their search criteria, the system displays a message indicating no tours were found If the Tourist encounters any technical issues, such as a system error or slow loading times, the Tourist may try to refresh the page or contact customer support for assistance.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	5	
Name	Remove Tour	
Actor	Tourist	
Goal	To remove a tour from the system	
Overview	The Tour Operator identifies a tour that needs to be removed from the system and completes the necessary steps to remove it	
Pre-conditions	The Tour Operator has access to the system and is logged in The Tour Operator has identified a tour that needs to be removed	
Post-conditions	The tour is removed from the system and is no longer available for bookings	
Trigger		
Basic Path/alternative path	Step	Action
	1	The Tour Operator selects the "Manage Tours" option in the system
	2	The system displays a list of tours that are available for bookings
	3	The Tour Operator selects the tour that needs to be removed
	4	The system displays the tour details and offers the option to remove the tour
	5	The Tour Operator confirms that they want to remove the tour
	6	The system removes the tour from the system and updates the tour availability status
alternative path		If the Tour Operator encounters any technical issues, such as a system error or slow loading times, the Tour Operator may try to refresh the page or contact technical support for assistance

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number	6	
Name	Add Traveling Activities	
Actor	Tourist	
Goal	The goal of this use case is to allow the tourist to add various traveling activities to their itinerary.	
Overview	The Add Traveling Activities use case allows the tourist to add various traveling activities to their itinerary, such as sightseeing, adventure sports, cultural events, and others. The tourist can view the list of available activities and select the ones they want to add to their itinerary.	
Pre-conditions	The tourist has a valid account and is logged in to the system. The tourist has access to a list of available traveling activities.	
Post-conditions	The selected traveling activities are added to the tourist's itinerary. The tourist can view the updated itinerary with the added activities.	
Trigger		
Basic Path/alternative path	Step	Action
	1	The tourist logs in to their account.
	2	The tourist accesses the list of available traveling activities.
	3	The tourist selects the desired activities from the list.
	4	The tourist confirms the selection of the activities.
	5	The selected activities are added to the tourist's itinerary.
	6	The tourist can view the updated itinerary with the added activities.
alternative path	1a	If the tourist is not logged in to their account, they are prompted to log in before proceeding.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Wijayasooriya W.A.K.A
IT21164026

User Stories

- As a package manager, I want to view all the available hotels at the moment so that it is convenient for me when creating a package.
- As a package manager, I want to view all the available transportation at the moment so that I can check the availability of transportation.
- As a package manager, I want to view all the available tours so I can check the availability of tours.
- As a package manager, I want to add/delete/remove packages so that I want to manage a package correctly.
- As a package manager, I want to generate a report of booked packages so that it allows me to get a list of all the packages booked during a period.

Functional Requirements

- Login – Package Manager
- Add a package - Package Manager
- Update a package - Package Manager
- Remove a package - Package Manager
- Generate a report - Package Manager
- View available hotels/transportation/tours - Package Manager

Non-Functional

- Security
- Readability
- Efficiency
- Maintainability
- Performance
- Speed
- User Friendly
- Accuracy
- Performance

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Technical Requirements

- Back end – Node js, Express js
- Front end – React js
- Database – Mongo DB

ID	01	
Name	View available hotels	
Priority	01	
Preconditions	The package manager should log in to the system.	
Postconditions	Successfully viewed the available hotels.	
Primary Actor(s)	The package manager	
Main Scenario	Step	Action
	1	The user logs into the system by providing login credentials.
	2	The system takes the user to the package management panel.
	3	The user clicks the “Available Hotels” option.
	4	The system displays the list of available hotels.
	5	The package manager views successfully available hotels.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	02	
Name	View available transportations	
Priority	01	
Preconditions	The package manager should log in to the system.	
Postconditions	Successfully viewed the available transportation.	
Primary Actor(s)	The package manager	
Main Scenario	Step	Action
	1	The user logs into the system by providing login credentials.
	2	The system takes the user to the package management panel.
	3	The user clicks the “Available Transportation” option.
	4	The system displays the list of available transportation.
	5	The package manager views successfully available transportation.
Extensions	Step	Branching Action
	1a	If the username is invalid, re-enter the correct username
	1b	If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	03	
Name	View available tours	
Priority	01	
Preconditions	The package manager should log in to the system.	
Postconditions	Successfully viewed the available tours.	
Primary Actor(s)	The package manager	
Main Scenario	Step	Action
	1	The user logs into the system by providing login credentials.
	2	The system takes the user to the package management panel.
	3	The user clicks the “Available Tours” option.
	4	The system displays the list of available tours.
	5	The package manager views successfully available tours.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	04	
Name	Add a package	
Priority	01	
Preconditions	The package manager should log in to the system.	
Postconditions	Successfully create/view/remove/update a package.	
Primary Actor(s)	The package manager	
Main Scenario	Step	Action
	1	The user logs into the system by providing login credentials.
	2	The system takes the user to the package management panel.
	3	The user clicks the “Add” option.
	4	The system shows the package creation form.
	5	The user makes a new package.
	6	The user clicks submit button.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	05	
Name	Generate a report	
Priority	01	
Preconditions	The package manager should log in to the system.	
Postconditions	Successfully generated the report.	
Primary Actor(s)	The package manager	
Main Scenario	Step	Action
	1	The user logs into the system by providing login credentials.
	2	The system takes the user to the package management panel.
	3	The user clicks the “Report” option.
	4	The system asks to enter the date range.
	5	The user selects the relevant date range.
	6	The system generates the report of booked packages.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	01	
Name	View package details	
Priority	01	
Preconditions	The user should come to the system homepage.	
Postconditions	Successfully viewed package details.	
Primary Actor(s)	The new user	
Main Scenario	Step	Action
	1	The user comes to the system homepage.
	2	The user clicks the “Packages” option.
	3	The system displays the package categories.
	4	The user clicks the relevant category.
	5	The system displays all packages.
	6	The user clicks on a desired package.
	7	The system displays all details of that package.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

ID	02	
Name	Search a package	
Priority	01	
Preconditions	The user should come to the system homepage.	
Postconditions	Successfully searched for a package.	
Primary Actor(s)	The new user	
Main Scenario	Step	Action
	1	The user comes to the system homepage.
	2	The user clicks the “Packages” option.
	3	The system displays the search bar.
	4	The user enters a keyword.
	5	The system displays every package with that keyword.
	6	The user clicks on a desired package.
	7	The system displays all details of that package.
Extensions	Step	Branching Action
		1. a) If the username is invalid, re-enter the correct username b) If the password does not match, re-enter the correct password. 4. a) If the keyword does not match, display an error message.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Karunarathne D.G.V.S
IT21785610

User story

- As a Registered Customer I want to add a review in review center, and I want to edit/update/delete/view the review.
- As a customer support manager I want to view the reviews which are posted in review center by the registered customer and I want to delete or add reply for that review. I want to search reviews by using customers name and want to generate a report also.
- As a Guest user I want to read the reviews in the review center which are posted by registered customers and the replies of the review.

Functional Requirements

- Login (Registered customer)
- Add a review with details, ratings, and photos.
- Edit and Update review.
- Delete review.
- View review.

Non-Functional Requirements

- Accuracy
- Reliability
- Maintainability
- Efficiency
- Usability

Technical Requirements

- Front end - react js
- Back end – node js , express js
- Database – Mongo DB

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Posting a Review in TourGenie Application' Review Center	
Summary	Send a message to the customer support admin	
Priority	02	
Preconditions	The customer must have registered in the TourGenie application and logged in.	
Postconditions	The customer's review is successfully posted in the TourGenie Review Center and is visible to other customers, customer support managers and guests.	
Primary Actor(s)	Registered Customer	
Secondary Actor(s)		
Trigger	The Registered user logged in to the system	
Main Scenario	Step	Action
	1	The customer logs into the TourGenie application and is directed to the registered user dashboard.
	2	The customer clicks on the Review Center button on the dashboard.
	3	The customer is directed to the TourGenie Review Center where they can see the reviews posted by other registered customers and customer support, and replies posted by managers.
	4	The customer clicks on the "Add Review" button in the TourGenie Review Center.
	5	The customer rates the service by stars.
	6	The customer types a review on the text editor.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

	7	The customer clicks on the button to insert photos taken during the trip and uploads them
	8	The customer types all the details and clicks on the "Submit Review" option
	9	The entered review is displayed on the TourGenie Review Center wall.
<i>Extensions</i>	<i>Step</i>	<i>Branching Action</i>
	7a	if customer trying to uploads wrong type photo system asks to upload in JPEG,png format
	8a	If customer missed to fill any required detail system asks to fill all details.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Replying to Customer Reviews in TourGenie Application.	
Summary	Manage customer's reviews by replying to them.	
Priority	02	
Preconditions	The Customer Support Manager must have the login details and access to the TourGenie app.	
Postconditions	The Customer Support Manager's reply is successfully posted in the TourGenie Review Center, and the registered customer who posted the review can view the reply.	
Primary Actor(s)	Customer support manager.	
Secondary Actor(s)		
Trigger	The customer support manager has clicked on "Review center management" button	
Main Scenario	Step	Action
	1	The Customer Support Manager logs into the TourGenie app with their login details.
	2	The Customer Support Manager is directed to the Customer Support Admin Dashboard.
	3	The Customer Support Manager clicks on the "Review Center Management" option in the dashboard.
	4	The TourGenie Review Center is displayed on the Customer Support Manager's wall with reviews posted by the registered customers.
	5	The Customer Support Manager selects a review to which they want to reply and clicks on the "Reply" option under the review post.
	6	The Customer Support Manager types the reply and clicks on the "Post Reply" button.

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

	8	The reply is posted under the respective review post.
<i>Extensions</i>	<i>Step</i>	<i>Branching Action</i>
	1a	Customer support admin enters invalid login credentials and system asks to login again with correct credentials.
	8a	If the Customer Support Manager faces any technical issues while replying to a review, an error message is displayed, and the reply cannot be posted

B.Sc. (Hons) in Information Technology IT2080
IT Project Requirements Engineering
Activity -1

Number		
Name	Guest user watching the reviews on the TourGenie application.	
Summary	Guest user watching the reviews.	
Priority	02	
Preconditions	The guest user is browsed into the TourGenie application.	
Postconditions	Successfully read the reviews in the review center.	
Primary Actor(s)	Guest User	
Secondary Actor(s)		
Trigger	The guest user has browsed in to the TourGenie Application.	
Main Scenario	Step	Action
	1	The guest user browsed into the TourGenie application.
	2	The guest user navigates to the review center option in the main page.
	3	The guest user directed to the reviews center wall.
	4	The guest user reads the ratings and types the reviews posted by the registered customer and replies posted by the customer support manager
Extensions	Step	Branching Action
	4a	Popup and ask the guest user to login or sign up to the application