# Applications Development Project 3 –ADPA301 Software Requirements Specification (SRS) – Increment 1 & Increment 2

I have read, understood and agree to the contents of this document. I accept full responsibility for any errors and omissions in this document.

Group number:11	Group name:Innovation
Oasis	

	Reg No	First name	Surname	sign	Meetings held	Number attended
1	22251989	Linamand la	Thutha	WID	3	3
2	22129902	Sfundo	Xulu	No.	3	2
3	22128794	Minenhle	Mendo	B	3	3
4	22229447	Sisanda	Radebe	4.2	3	3
5	22229009	Sipho	Shali	<b>E</b>	3	2
6	22217222	Esethu	Mchiza	ÆM.	3	2
7	22116318	Mfihlakalo	Ncama	Mon	3	2
8	22132693	Fezekile	Ndebele	Alm	3	3

Business Domain	Tripease.co.za
Business name	TripEase

Contact Person	Minenhle Mendo
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### **Business processes (List all Business processes for the project)**

No	Business	Se	Brief description
	process	m /	
		Inc	
1	Book	1/2	Provide online ticket booking options.
	attraction		
2	Car rental	1/2	Users can search for available cars based on
			location, date, and time, apply filters, sort results,
			and view detailed car information. They can book
			cars, process payments, receive booking
			confirmations, and cancel reservations if needed.
			Users select or enter pick-up and drop-off
			locations and receive detailed instructions for
			both.

### Business use cases (List all Business use cases in sequence for the project)

No	Use case	Sem / Inc	Brief Use Case description	Full Name	Com plete d Yes / No
1.	Discount & Coupons	1/2	Customers apply discounts or coupons to their car rental reservations to receive a price reduction. This involves verifying the validity of the discount or coupon and adjusting the reservation total accordingly.	Minenhle Mendo	No
2.	Reserve vehicle	1/2	The customer selects a vehicle, specifies rental dates, provides necessary personal	Esethu Mchiza	No

			information, and confirms the reservation.		
3.	Payment process	1/2	Secure payment gateways for handling transactions.	Linamandla Thutha	No
4.	Car pick-up	1/2	Customer arrives at the car rental location to collect the vehicle they reserved.	Sisanda Radebe	no
5.	Car drop-off	1/2	This use case describes the process for users to return the rented car to a designated drop-off location at the end of the rental period.	Minenhle Mendo	
6.	Inspect vehicle	1/2	After the vehicle rented by a customer the rental company then uses a digital checklist for inspection.	Linamandla Thutha	No
7.	Ratings and reviews	1/2	After returning a car, the user can leave ratings about their experience with the car and the rental service.	Fezekile Ndebele	No
8.	Ticket booking	1/2	Users can search for events or services based on criteria like date, location, or category. Users can view a seating chart and choose their preferred seats; Users can book tickets by providing necessary information.	Sipho Shali	No
9.	Cancel ticket booking	1/2	User can be able to cancel bookings or is allowed to cancel his or her ticket booking	Sfundo Xulu	No

10.	Refund Processing	1/2	User can make a refund request after cancelling the booking	Mfihlakalo Ncama	No	
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## Use case description

Use case number	1			
Use case name	Discount & Coupons			
Brief description	Customers apply discounts or coupons to their car rental reservations to receive a price reduction. This involves verifying the validity of the discount or coupon and adjusting the reservation total accordingly.			
Triggering event	The customer attempts to apply a discount or coupon to their reservation.			
Actor(s)	<ul><li>Customer</li><li>System</li><li>Rental Agent</li></ul>			
Preconditions	<ul> <li>The customer has a valid discount or coupon code.</li> <li>The discount or coupon is applicable to the customer's reservation (e.g., not expired, meets the conditions of the promotion).</li> <li>The rental agent has access to the car rental system to verify and apply the discount or coupon.</li> </ul>			
Flow of activities	<ul> <li>Customer decides to use a discount or coupon for their reservation.</li> <li>Customer provides the discount or coupon code.</li> <li>System verifies the validity of the discount or coupon.</li> </ul>			

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Use case number	2			
Use case name	Reserve vehicle			
Brief description	This use case describes the process for a customer to reserve a vehicle from a car rental company's system. The customer selects a vehicle, specifies rental dates, provides necessary personal information, and confirms the reservation.			
Triggering event	The customer decides to rent a vehicle and initiates the reservation process.			
Actor(s)	Customer, System			
Preconditions	<ul> <li>The customer has access to the car rental system (either through the website, mobile app, or in person at a branch office).</li> <li>The customer has a valid driver's license and a valid payment method.</li> <li>The car rental system is operational and has available vehicles for the specified rental dates.</li> </ul>			
Flow of activities	<ul> <li>Customer initiates the reservation process.</li> <li>System displays available vehicles and rental dates.</li> <li>Customer selects vehicle, rental dates, and location.</li> <li>System verifies customer information and vehicle availability.</li> <li>Customer provides payment information.</li> <li>System processes payment and confirms reservation.</li> <li>System sends reservation confirmation.</li> </ul>			

•	Customer	receives	reservation	confirmation.

Use case number	3	
Use case name	Payment processes	
Brief description	Secure payment gateways for handling transactions.	
	The user reserves a vehicle or ticket for an event and chooses to proceed with the payment.	
Actor(s)	Customer	
Preconditions	<ol> <li>The user has successfully registered and logged into the web application.</li> <li>The user has to reserve a vehicle or book a ticket.</li> </ol>	
	3. The user has a valid payment method (credit card, debit card, etc.)	
Flow of activities	1. The user clicks on the 'Proceed to Payment' button.	
	The system displays the payment page with the total amount, including any taxes and fees.	
	The user enters their payment details or selects a saved payment method.	
	4. The user clicks on the 'Pay Now' button.	
	5. The system validates the payment information.	

The system sends a payment confirmation to the user's registered email address.

Use case number	4	
Use case name	Car pick-up	
Brief description	Customer arrives at the car rental location to collect the vehicle they reserved. This includes checking the customer's reservation, verify documents.	
Triggering event	The customer	
Actor(s)	Customer, Rental agent	
Preconditions	<ul> <li>The customer has an active reservation in the system</li> <li>The customer possesses a valid driver's license</li> <li>The reserved car is available and in good condition at the rental location</li> <li>The rental agents have access to the car rental system to verify details,</li> </ul>	
Flow of activities	<ul> <li>Customer arrives at the rental location to pick up their reserved car</li> <li>Rental agent greets the customer and initiate the check-in</li> <li>Agent entered details to the system to confirm the reservation</li> </ul>	

<ul> <li>The customer takes possession of the car and leaves</li> </ul>
the rental location

Use case number	5	
Use case name	Drop off	
Brief description	This use case describes the process for users to return the rented car to a designated drop-off location at the end of the rental period.	
Triggering event	The rental period is about to end, and the user needs to return the car.	
Actor(s)	Customer, System	
Preconditions	<ul> <li></li></ul>	
Flow of activities	<ul> <li>Initiate Drop-off: The user opens the app and selects the "Return Car" option.</li> <li>Confirm Drop-off Location: The app displays the designated drop-off location. The user confirms or adjusts the location if allowed.</li> <li>Navigate to Drop-off Location: The app provides navigation instructions to the drop-off location.</li> <li>Inspect Car: The user conducts a preliminary inspection of the car to ensure it is in the same condition as when rented.</li> <li>Complete Drop-off Checklist: The user follows the app's checklist, which might include taking photos of the car, checking fuel levels, and removing personal belongings.</li> <li>Confirm Return: The user confirms the return via the app, which may include submitting photos or other required information.</li> </ul>	

Receive Confirmation: The app confirms the
successful return and provides a receipt or
confirmation message.

Use case number	6	
Use case name	Inspect vehicle	
Brief description	After the vehicle rented by a customer the rental company	
	then uses a digital checklist for inspection.	
Triggering event	This action triggers the entire vehicle inspection process,	
	including performing the inspection, recording the results, and generating a report for the customer to view.	
Actor(s)	Rental Company	
Preconditions	The customer must be logged into the system.	
	The customer must have an active rental booking.	
Flow of activities	User Authentication: Implement secure login for	
	customers and inspection officers.	
	<ul> <li>Scheduling Module: Develop a system for customers to book inspection times.</li> </ul>	
	Inspection Checklist: Create a digital checklist for	
	inspection officers.	
	Recording Module: Build a feature for recording	
	inspection results.	
	Notification System: Set up notifications to inform	
	customers about inspection schedules and results.	
	Report Generation: Implement a report feature for	
	presenting inspection results to customers.	

Use case number	7
Use case name	Ratings and reviews
Brief description	After returning a car, the user can leave ratings about their experience with the car and the rental service based on the condition of the car.
Triggering event	The customer navigates to the option where they can leave their ratings and reviews.
Actor(s)	user
Preconditions	<ul> <li>The customer has completed a car rental transaction.</li> <li>The user is logged into their account.</li> </ul>

Flow of activities	<ul> <li>Customer logs in to their account and navigates to the rental section.</li> <li>The user selects the rental they want to leave a review for.</li> <li>The user selects a rating and writes a review including any comment or feedback about the car.</li> <li>The user submits their review.</li> </ul>

Use case	8	
number		
Use case name	Ticket booking	
Brief description	Users can search for events or services based on criteria like date,	
	location, or category. Users can view a seating chart and choose	
	their preferred seats; Users can book tickets by providing	
	necessary information.	
Triggering event	The user decides to book a ticket for an event.	
Actor(s)	Customer	
	System	
Preconditions	The user has access to the ticket booking (via website or	
	mobile app).	
	The event or service has available tickets.	
	The user has a valid payment method.	
Flow of	The user searches for the desired event or services.	
activities	<ul> <li>The system displays available options based on the</li> </ul>	
	user's search criteria.	
	<ul> <li>The user selects the preferred option.</li> </ul>	
	<ul> <li>The system displays seat availability and pricing.</li> </ul>	
	<ul> <li>The user selects the desired seat(s).</li> </ul>	
	The system prompts the user to enter personal and	
	payment details.	
	The user enters the required information and submits	
	the booking request.	

Use case number	9	
Use case name	Cancel ticket booking	
Brief description	This use case describes the process for a customer to cancel the ticket that they have already booked .	
Triggering event	The customer decides to cancel the ticket	
Actor(s)	Customer	
Preconditions	<ul> <li>The customer has access to the car system (either through the website, mobile app, or in person at a branch office).</li> <li>The customer decide to cancel the ticket booking for or her reasons.</li> </ul>	
Flow of activities	<ul> <li>Customer log in.</li> <li>Go to tickets and bookings a customer can review his or her ticket booking</li> <li>Customer press cancel ticket button and save.</li> <li>Can provide a reason for canceling</li> </ul>	

Use case number	10	
Use case name	Refund Processing	
Brief description	User can make a refund request after cancelling the booking	
Triggering event	The customer has canceled the ticket/booking	
Actor(s)	Customer	
Preconditions	<ul> <li>The customer must have a paid booking or ticket</li> <li>The customer has canceled the ticket or booking</li> </ul>	
Flow of activities	<ul> <li>Customer log in</li> <li>Customer navigates to the canceled tickets and bookings section</li> </ul>	

•	Customer	selects	the s	specific	booking
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- Customer presses the "Request Refund" button
- Customer submits the refund request

MEETING DETAILS	
Team Name:	Innovators
Meeting date:	25 July 2024
Meeting time:	10h00
Venue:	DB001
Attendees:	5
Absentees:	3
Minutes taker:	Ndebele Fezekile

### AGENDA DETAILS

Present possible use cases and business processes

Split approved use cases within group members

### MEETING MINUTES

Action	Ву
Ticket booking	Linamandla Thutha
Discount and coupon	Sfundo Xulu
Cancel ticket booking	Fezekile Ndebele
Refund Processing	Luyanda Radebe
	Minenhle Mendo

MEETING DETAILS		
Team Name:	Innovators	
Meeting date:	29 July 2024	
Meeting time:	20h00	
Venue:	MS Teams	
Attendees:	8	
Absentees:	0	
Minutes taker:	Sfundo Xulu	

AGENDA DETAILS
Add another business process
Create new use cases to meet target
Split approved use cases within group members

MEETING MINUTES	
Action	Ву
Responsible for use case payment process	Linamandla Thutha
and vehicle inspection	
Cancel ticket booking	Sfundo Xulu
Ratings and reviews	Fezekile Ndebele
Vehicle pickup	Luyanda Radebe

Responsible for use case Discount and	Minenhle Mendo
coupons	
Reservation of vehicle	Esethu Mchiza
Attraction ticket booking	Sipho Shali
Refund Payment	Prince Nama

MEETING DETAILS	
Team Name:	Innovators
Meeting date:	30 July 2024
Meeting time:	10h00
Venue:	MS Teams
Attendees:	8
Absentees:	0
Minutes taker:	Prince Ncama

### AGENDA DETAILS

Finalized the car rental business user cases, discussing various scenarios and functionalities that need to be covered in the project.

Key user cases include booking a car, managing rentals, handling payments, and customer support.

### **MEETING MINUTES**

Action	Ву
Final user cases have been approved.	All members
to assign the user cases to the individuals.	Sisanda Radeebe

Prepare to present these user cases to the	All members.
lecturer.	

### **MEETING DETAILS**

Team Name:	Innovators
Meeting date:	O1 August 2024
Meeting time:	20h00
Venue:	MS Teams
Attendees:	8
Absentees:	0
Minutes taker:	Sipho Shali

### AGENDA DETAILS

Finalizing the approved use cases	
Write the use case description within the group members	

### **MEETING MINUTES**

Action	Ву
Responsible for use case payment process and vehicle inspection	Linamandla Thutha
Cancel ticket booking	Sfundo Xulu
Ratings and reviews	Fezekile Ndebele
Vehicle pickup	Luyanda Radebe

Responsible for use case Discount and Minenhle Mendo

coupons

**Reservation of vehicle** Esethu Mchiza

Attraction ticket booking Sipho Shali

Refund Payment Prince Nama