The Carlo's shuttle membership purchasing and bus ticket booking system

This web application will be used as an extension of
https://www.carloshuttlenamibia.com/

1) Membership = N$150 per every two years. Users should be able to buy a membership on this new web app and receive a digital membership number. This membership should be designed for Namibian citizens who travel frequently between Namibian towns/cities.

We should have a database of these signed up members who paid N$150 for 2 years with their:

1) First and last names,

2) ID number

3) Date of birth

4) Email address

5) Phone number.

6) Issued membership number

We should be able to communicate (using Twilio or SendGrid or similar) promotions to these members, which can only be redeemed upon providing a valid membership number.

Examples of promotions: Price freeze, 20% discount on trips.

The payment processing of this membership fee should be done on the web application using this payment gateway https://www.adumo.com/africa

2) Bus ticket booking system =

Daily shared shuttle schedule

		Mon	Tues	Weds	Thurs	Fri	Sat	Sun
07:00	Whk - Walvis Bay	22	22	22	22	22	22	22
07:00	W/Bay - Whk	22	22	22	22	22	22	22
14:00	Whk - W/Bay	22	22	22	22	22	22	22
14:00	W/Bay - Whk	22	22	22	22	22	22	22
Total Seats		88	88	88	88	88	88	88

A user who is a member or not a member should be able to buy a bus ticket for any one of the 22 seats available every day, from the 4 different daily trips. Users should be able to buy a bus ticket as far out as 6 months into the future from the current date of browsing the web application.

7,392 bus tickets to be created and sold every 12 months. Each one should be issued a reference number even the ones that end up not being sold should be aged out of the system with a pre-existing reference number.

Before purchasing a ticket or adding multiple tickets to a shopping cart (for credit/debit card checkout) a non-member user must be prompted to create an account first.

Pricing

Each bus ticket costs N$350 or N$300 for users who can provide their ID to prove that they are a 1) A pensioner or 2) upload a student ID to prove they're an active student. These uploads should be uploadable when purchasing a bus ticket. The Carlos shuttle team can manually review pensioner and student purchases to confirm if they indeed qualify for the N$50 discount.

Payment processing for bus ticket purchasing should be done with Adumo as well.

Every user should be able to see upcoming trips as well as past trips.

A user can only keep a bus ticket in their cart for 24 hours before the shopping cart automatically resets to having no bus tickets in it anymore. Returning the bus tickets back for another user to purchase.

3) Backend of bus ticket system =

Admin users who work for Carlo's shuttle should be able to access a backend of the bus ticket system whereby they can see a log of all the purchases with the following actions available for each bus ticket purchase:

- User information
- Bus ticket reference number
- Travel trip details
- Membership number (if purchased user is a member)
- Cancel a bus ticket booking which should trigger an Adumo refund
- Change time of departure depending on available bus tickets at new desired time

They should also be able to manually book a bus ticket for an already existing user on the bus ticket system.

They should have access to a live and updating roster of passengers for every trip that has happened or is to come.