

Introduction:

COSTA AVALON is a west-coastal country in West Africa. Little known to most of the world, it wants to develop its tourist industry and attract more visitors. This is a surprising beauty land, with the wonderful mountain plateau of Fouta Djallon and thick forests and Sahelian lands.

Overland drivers have long been drawn here for the difficulties of driving their vehicles washed-out paths and over rocks. Tourists lose themselves on long hikes past plunging waterfalls, tiny villages, proud hills and through sticky rainforest or by tracking chimpanzees. But the important thing about **COSTA AVALON** is you'll likely have the country to yourself. Many hotels can be found along its wonderful beaches. The major and important airlines fly to **COSTA AVALON** everyday.

COSTA AVALON's government wants to increase tourism and develop new markets for the country's agricultural products. The project is to analyze the needs of a web site to support the tourism in **COSTA AVALON** and develop a prototype solution by using suitable technologies.

A web site that serves the purpose of increasing tourism and developing new markets for **COSTA AVALON's** agricultural products is going to be developed. The functions of the web application should introduce **COSTA AVALON**, planning of visit (e.g. reserving hotel rooms and transportation rental) and serving as a platform for tourists to purchase the local agricultural products. The application is to run as a web application. A database is used to hold persistent data and connect the application to the database.

Tourists like being informed about interesting things to do or places this also allows local people to suggest and recommend things to include in their activities. This, develop tourist experience [1].

There are many important technologies that help tourism. That technology is the Internet and web to recommend and communicate a point of interest shared by tourists to. The evolution of web permits communication between user and service provider [1] .

This is to provide tourists with intelligent interaction based on virtual community concept of tourism and locals that have common interest theme. The system aims at bridging the gap; which is the lack of interaction that exists between tourists and locals at a particular destination. The system is designed using HTML, CSS, PHP and Java script whereas MySQL was used to design the database. [2, 3].

For mobile tourism application to impact people, software requirements are to satisfy the expectation and needs of the user. Requirement can be transformed to the technical requirement to lay the foundation for the system design process that is important to develop the application. Software requirement is important to to user needs on all stages of the design and development process[2].

REQUIREMENT ANALYSIS

Functional Requirements

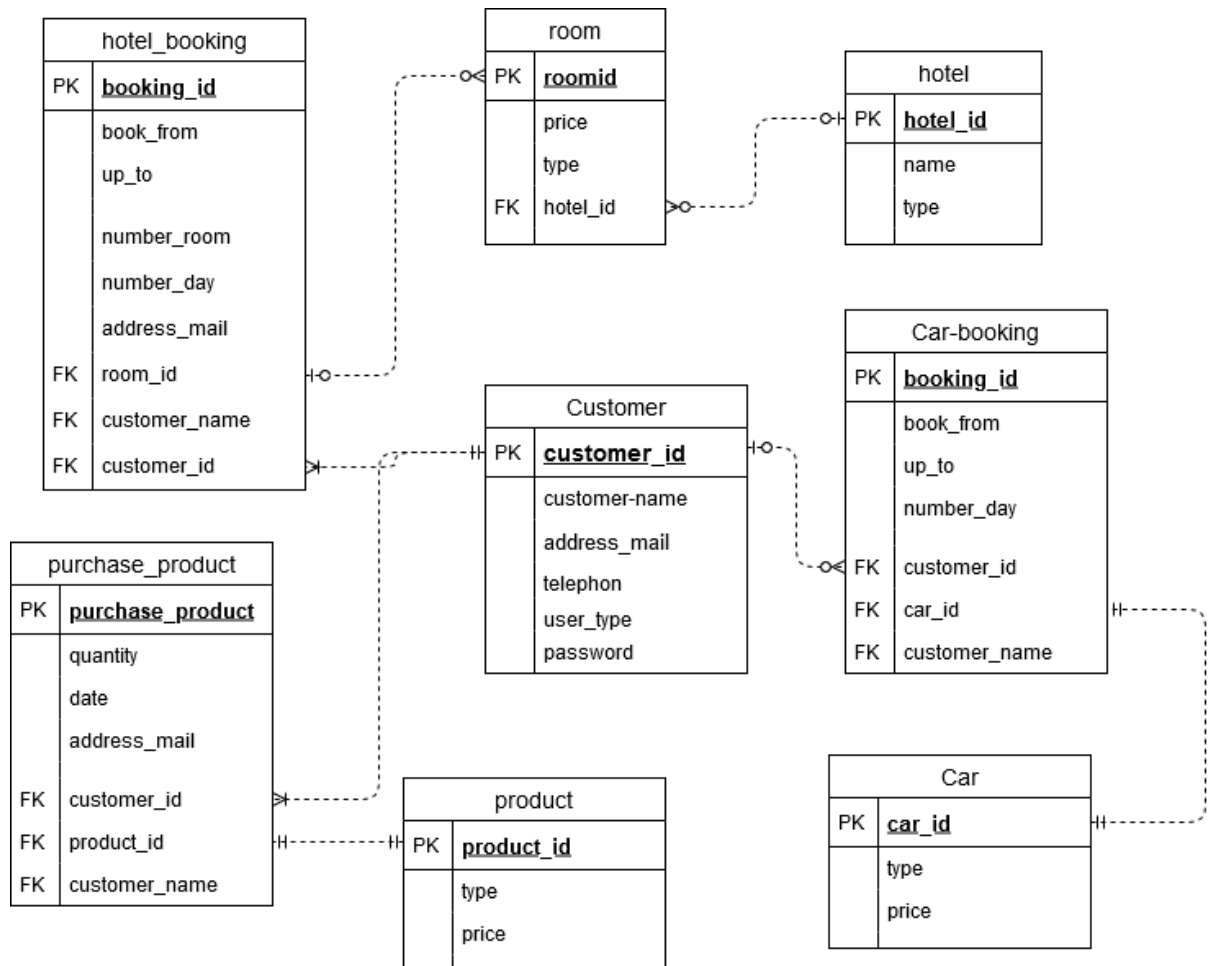
- The system allows customers to book and modify information.
- Customers can search based on transportation.
- When a customer search for transportation the search result must contain the price
- Customers can purchase agricultures products.
- When a customer search for agricultures products search result must contain the price.
- Customers can search for hotel and room.
- When a customer search for hotel or room the search result contain all the information (Price) related to the room
- Customers is able to cancel or modify anytime from their account the booking.
- Booking can be done online and payed with credit or debit card.
- Customers can check status from their individual account their booking.
- Customers can contact the company for booking purposes or send feedback.

Non-Functional Requirements

- The system must ensure that customers debit card or credit number, payment should be done in secured connection all the transferable data as for examples.
- Multiple transactions a time should be possible.
- The system should be accessible 24*7 hours online booking service.

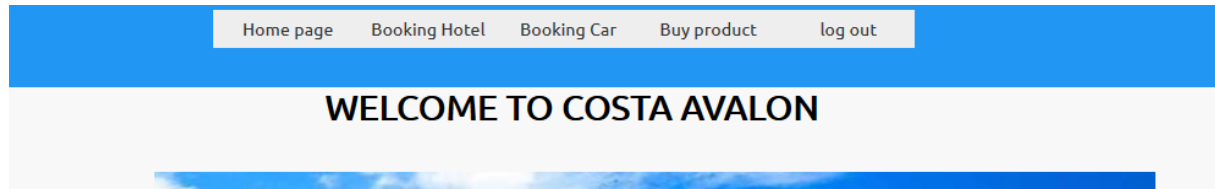
- All the browsers (Internet Explorer, Safari, Chrome, and Firefox) should be compatible with the system.

DESIGN

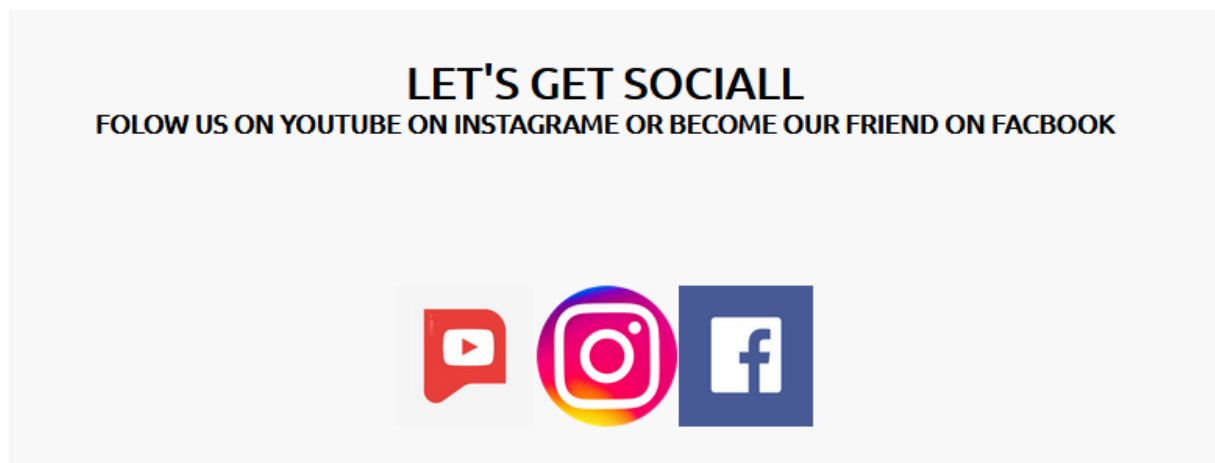


Home Page

This interface contains, *Sign In, Sign Up, links for hotel Booking, agricultures products and transportation and Log Out* . It will appear after *Log In* of customers or admin.



Below is the social link (Instagram Facebook). Customers can contact or give their feedback.



Sign Up (Customer)

From here customers can register by giving their personal information details (*Username password email etc.*)

A screenshot of a sign-up form titled 'PLEASE ENTER YOUR INFORMATION' in bold black capital letters. The form is set against a light gray background. It contains five input fields: 'Name' with the placeholder 'full name', 'Password' with the placeholder '*****', 'User type' with the placeholder 'customer', 'Email' with the placeholder 'name@gmail.com', and 'Telephone' with the placeholder '0197922058'. Below the 'Telephone' field is a small gray button with the text 'ADD' in white capital letters.

Sign In (Customer & admin)

the interface of system **Log In**. This Log In interface is general for customers and admin. The Log in is connected directly to the database. Key in the **Username** and **Password**, it will read the data from database for connection purpose.

[hotel boking](#) [car booking](#) [product](#) [login](#) [sign up](#)

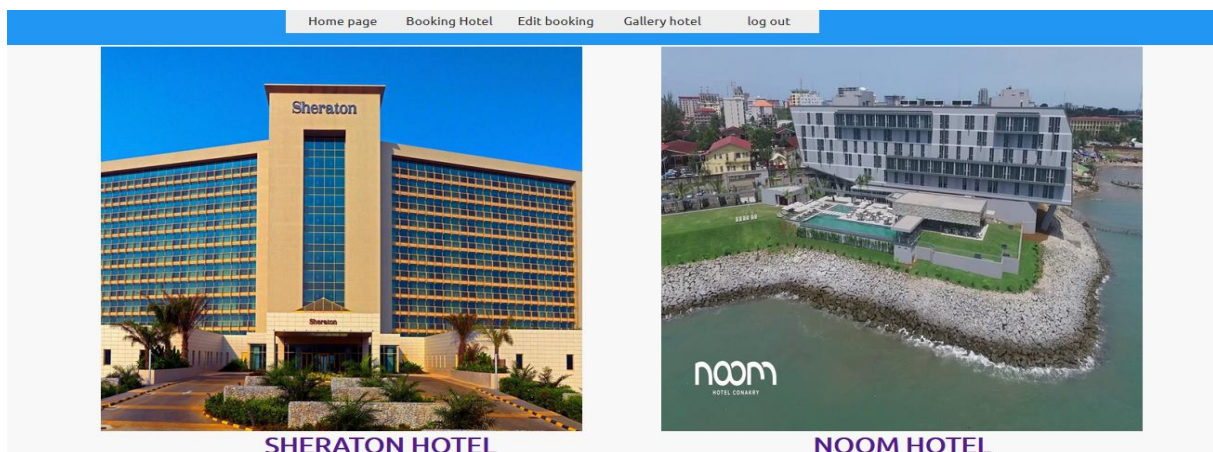
Username

Password

Log In

Hotels Description

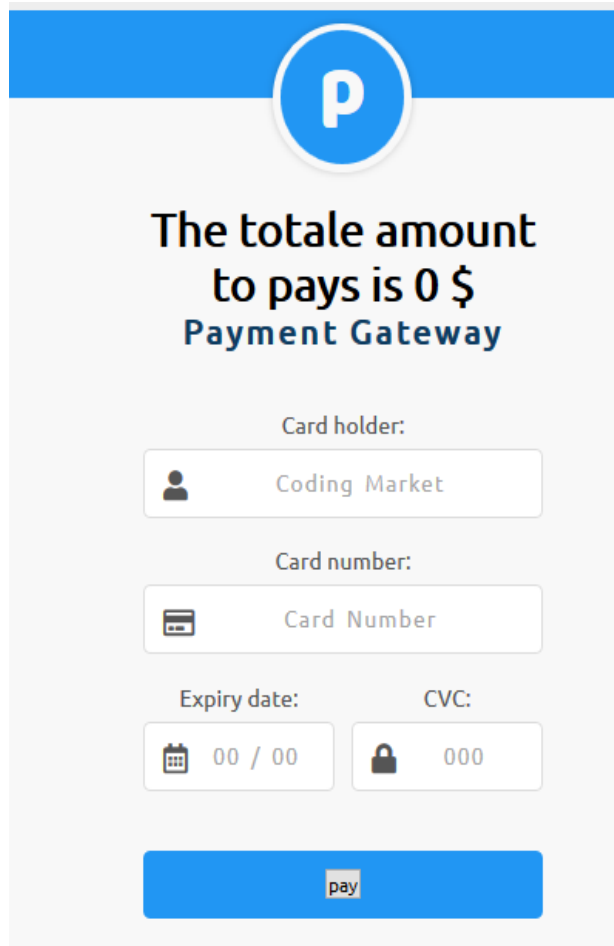
In this interface users can view **Hotel type**, **Room Type**, and **Price per Night**. Customers can also see the pictures of rooms in the gallery section.



Payment

The *Payment* page of “A VELON TRIP ADVISOR”.

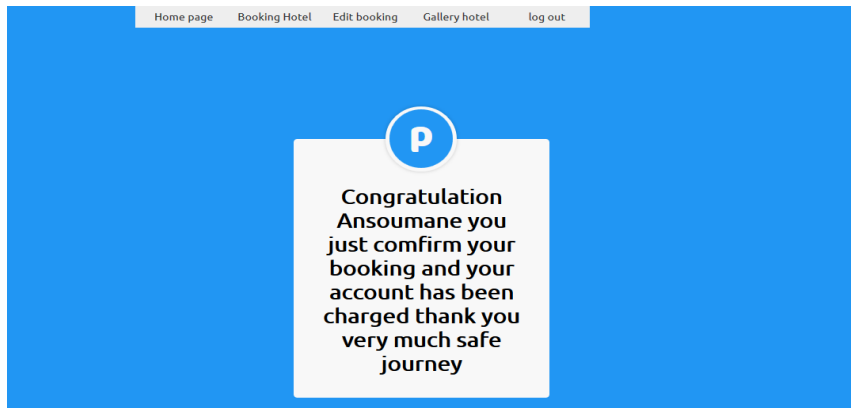
Customers need to type their debit or credit card details including the CVV.



The image shows a payment gateway interface. At the top, there is a blue header with a white circle containing a blue 'P'. Below this, the text reads: "The totale amount to pays is 0 \$" and "Payment Gateway". The form contains several input fields: "Card holder:" with a person icon and the text "Coding Market"; "Card number:" with a card icon and the text "Card Number"; "Expiry date:" with a calendar icon and the text "00 / 00"; and "CVC:" with a lock icon and the text "000". At the bottom, there is a blue button with the text "pay".

Booking Confirmation

It is automatically generated by the system after successful payment. If they want Customers can also print the booking confirmation page to.



Cancel Booking (Customers)

Here they can cancel their booking if they want at any time. By clicking the link “**delete**” it will delete their information from their account.

ID BOOKING	Room id	Name	Book_From	UP_To__	Number of day	Number Room	Email	
2	2	ansoumane	2020-04-23	2020-04-30	1	1	paris@gmail.com	Update Delete

Transportation

From here. The individual price will also appear below each car. After choosing the car they can click on the **Book** button for booking.

Car Description

The interface of car descriptions. In this interface users can view *car Type* and *Price per day*. Here the prices varies depends on type. Customers can also see the pictures cars selected car.



[Home page](#) [Booking Car](#) [Gallery](#) [Edit booking](#) [log out](#)

CAR BOOKING

CAR ID

Customer Name

Email

Adress

Book from

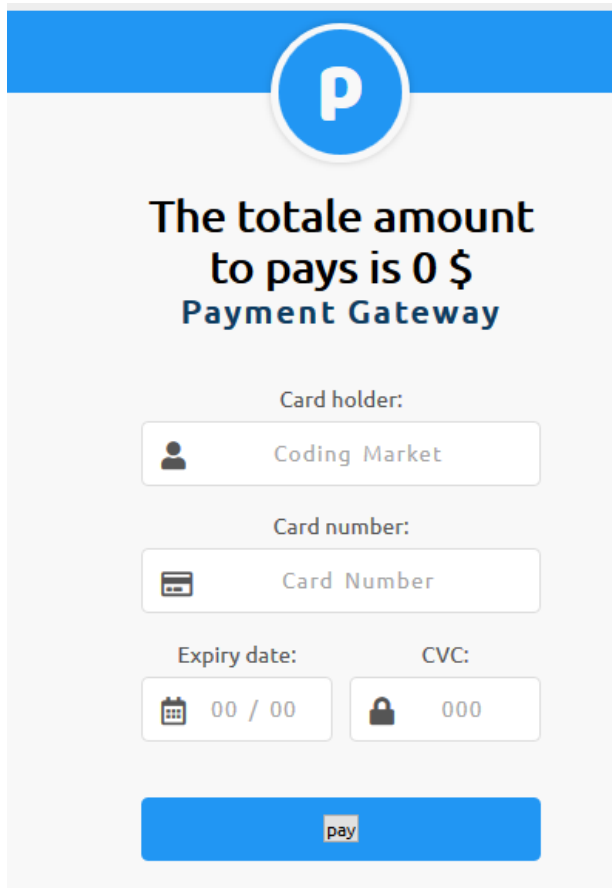
UP to

Number of day

Payment

The *Payment* page of “AVALON TRIP ADVISOR” transportation.

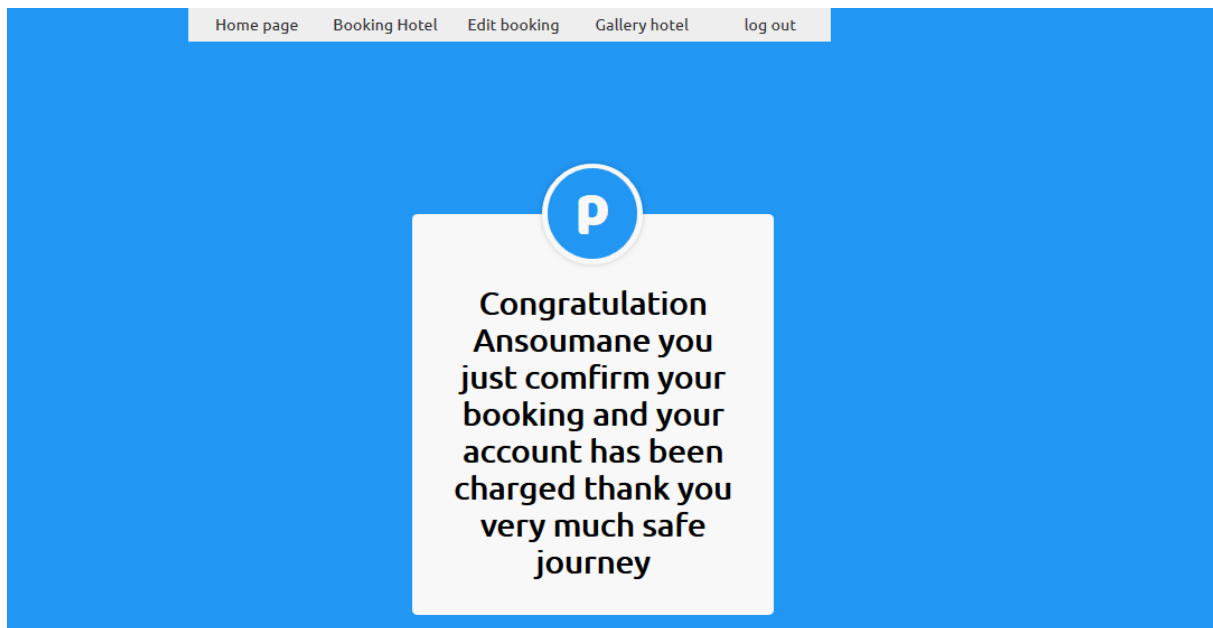
Customers need to type their debit or credit card details including the CVV.



The image shows a payment gateway interface. At the top, there is a blue header with a white circle containing a blue 'P'. Below this, the text reads "The totale amount to pays is 0 \$" in bold, followed by "Payment Gateway" in a smaller font. The form contains several input fields: "Card holder:" with a person icon and the text "Coding Market"; "Card number:" with a card icon and the text "Card Number"; "Expiry date:" with a calendar icon and the text "00 / 00"; and "CVC:" with a padlock icon and the text "000". At the bottom, there is a blue button with the text "pay".

Booking Confirmation

It is automatically generated by the system after successful payment. If they want Customers can also print the booking confirmation page to.



Cancel Booking (Customers)

The interface of customers booking where they can cancel their booking if they wish to. By clicking the button “**edit booking**” from their individual account.

ID BOOKING	Car id	Name	Book_From	UP_To__	Number of day	Email	
1	1	ansoumane	2020-03-29	2020-03-31	3	ansoumane@gmail.com	Update Delete

Purchase agriculture product

Agriculture product Description

In this interface users can view *products Type*, and *Price*. Here the prices varies depends on type.



Home page Booking Edit Gallery log out

BUY THE PRODUCT

ID

Customer Name

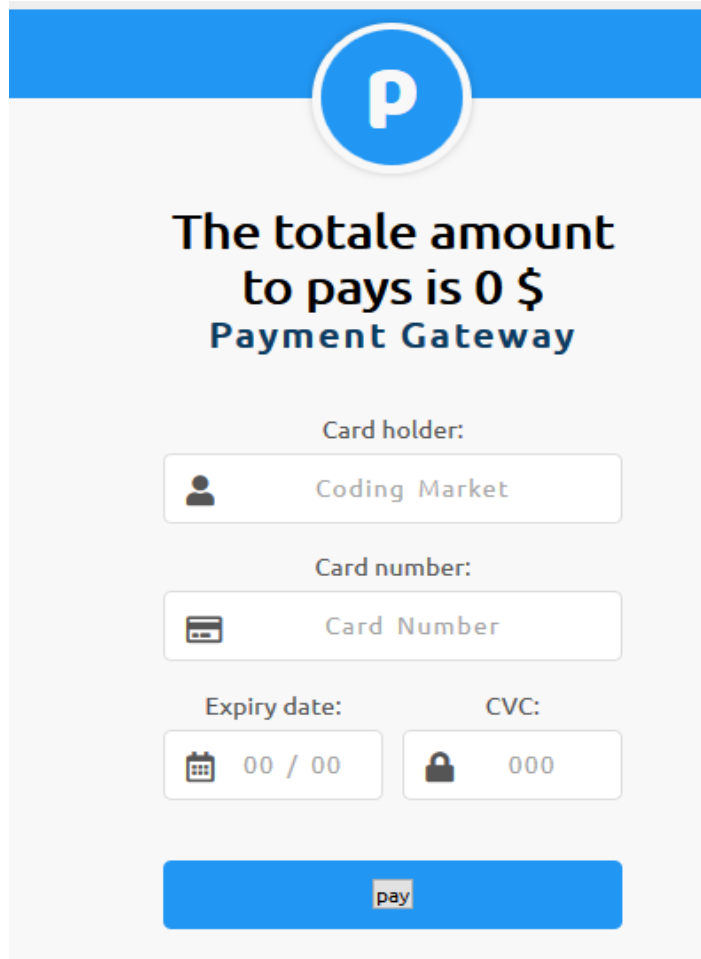
Email Address

Date

Quantity

Payment

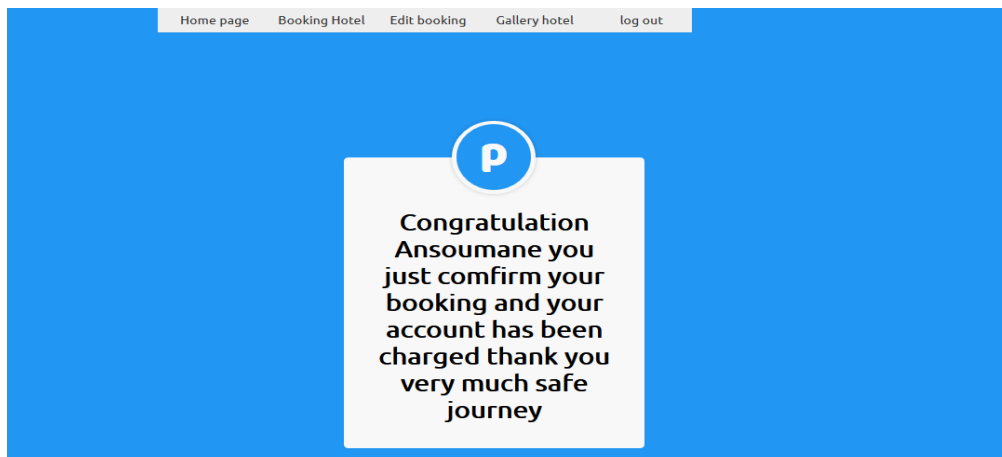
The *Payment* page of “A VELON TRIP ADVISOR” agriculture product. Customers need to type their debit or credit card details including the *CVV*.



The image shows a payment gateway interface. At the top, there is a blue header with a white circle containing a blue 'P'. Below this, the text reads: "The totale amount to pays is 0 \$" in bold black font, followed by "Payment Gateway" in blue font. The form contains several input fields: "Card holder:" with a person icon and the text "Coding Market"; "Card number:" with a card icon and the text "Card Number"; "Expiry date:" with a calendar icon and the text "00 / 00"; and "CVC:" with a lock icon and the text "000". At the bottom, there is a blue button with the text "pay".

Purchase Confirmation

It is automatically generated by the system after successful payment. If they want Customers can also print the booking confirmation page to.



Cancel Booking (Customers)

The interface of customers booking where they can cancel their booking if they wish to. By clicking the button “**edit Booking**” from their individual account.

Search Booking
Please write your full name
search

Booking View

ID BOOKING	product id	Name	Date	Quantity	Email	
1	1	ansoumane	2020-03-29	10	ansoumane@gmail.COM	Update Delete

(Admin)

The web page of admin can edit booking and also add additional information of the system. From here admin can edit the customer's information can also add booking into the system. He can also search

individual customers booking. From this page admin can also delete or modify individual customers booking in the database.

[Edit User](#)
[Edit Hotel](#)
[Edit Car](#)
[Edit Shop](#)
[log out](#)

PLEASE ENTER YOUR INFORMATION

Name
 Password
 User type
 Email
 Telephone

ID	Name	Password	Telephone	Type	Adress		
6	admin	admin	12345678	admin	tombo@gmail.com	Update	Delete
7	Djiguine	123	123456789	customer	jalan@gmail.com	Update	Delete
8	ansoumane	1234	12344	customer	paris@gmail.com	Update	Delete
9	fanta cisse	1234	1234	customer	cisse@gmail.com	Update	Delete
10	ali camara	1234	12344	customer	camara@gmail.com	Update	Delete
11	kaka	1234	12345	customer	kaka@gmail.com	Update	Delete
12	karim	1234	123	customer	karim@gmail.com	Update	Delete
14	moi	1234	12346	customer	moi@gmail.com	Update	Delete
15	lui	&é"	1233	customer	lui@gmail.com	Update	Delete
16	elle	123	12345	customer	ell@gmail.com	Update	Delete
17	OK	12345	1234	customer	ok@gmail.com	Update	Delete
18	alia	12345	1223424	customer	alia@gmail.com	Update	Delete

REFERENCES

1. Rashid, R.A. and H. Mohamed. *Mobile Augmented Reality Tourism Application Framework*. in *International Conference of Reliable Information and Communication Technology*. 2017. Springer.
2. Onuiri, E.E., et al., *Intelligent Tourism Management System*. American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS), 2016. **18**(1): p. 304-315.

3. YU, C.-h., H.-k. ZENG, and J.-y. SONG, *Design and Realization of Tourism Information Service System Based on LBS Technology [J]*. Journal of Zhejiang Sci-Tech University, 2013. **2**.