

MINISTRY OF EDUCATION AND TRAINING
HCMC UNIVERSITY OF TECHNOLOGY AND EDUCATION
FACULTY FOR HIGH-QUALITY TRAINING



HCMUTE



Final Report
Web Programming
BUILDING A WEBSITE TO MANAGE
TOUR BOOKING

Course: Web Programming

Period: Fri. from 3 - 6

Lecturer: Assoc. Prof. Nguyen Thien Bao

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HCMC December, 2022
Last update: December 2022

THANK YOU

In order to successfully complete this topic and this report, we would like to extend our sincere thanks to our lecturer, Mr. **Nguyen Thien Bao**, who directly supported us throughout the process of making the topic. Thank you for giving us advices from his practical experience to guide us in the right direction with the requirements of the selected topic, always answer questions and give suggestions and corrections in time to help us overcome my shortcomings and complete the project on schedule.

We also would like to express our sincere thanks to the teachers in the High Quality Education Department in general and the Information Technology faculty in particular for their dedicated knowledge to help us gain a foundation to make this project. This topic has created conditions for us to learn and perform well on the topic. Along with that, we would like to thank our classmates for providing useful informations and knowledges to help us improve our report.

The topic and report are made by ourselves in a short time, with limited knowledge and many other limitations in terms of technicals and experiences in managing university. Therefore, in the process of creating this topic with shortcomings is inevitable, we look forward to receiving valuable comments from the teachers to make our knowledges more complete and we can do even better next time. We sincerely thank you.

At the end, we would like to wish all teachers staffs always having abundant health and more success in the career of teaching students. Once again, we sincerely thank you.

Ho Chi Minh City, December 2nd 2022

Group 06

TEACHER'S COMMENTS

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Ho Chi Minh City, December 2nd 2022

Instructor

Introduction

Online shopping is increasingly attracting the attention of numerous countries as the globe enters the Fourth Industrial Revolution. Online software and applications are no longer a novel industry in our nation or a weird notion in society. Online shopping services are steadily growing, developing aggressively, and playing an increasingly significant role in the sphere of technology development in Vietnam, following the global trend of technological growth. In 2021, the COVID-19 pandemic is likely to have wreaked havoc on the economy and human life in a variety of ways. As a result, the deployment of online service tools for shopping has played an important role for all people.

Secondly, after studying this course, we want to build a new platform with some more improvements like payment online, rates from customers or news about the motorbike in the market of an interval or suggest the production for customers to raise their experiences.

After our discussion, we found that is a really interesting topic, we want to apply some new technology and function in a new branch online like the Simple Tour to help businesses do not need to pay a lot of space and users can book and view tours quickly.

The report includes the following sections:

1. Project Description
2. Task Assignment
3. Determination and Modeling Requirments
4. Database Design
5. Design Website
6. Conclusion

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I. PROJECT DESCRIPTION

1.1. Project Reason

E-commerce is one of the inevitable trends of the modern economy. With the support of technology, the explosion of internet-connected devices, businesses have more and more opportunities to expand sales channels and market products to consumers. The birth of the website has made an important and great contribution to promoting the rapid development of business, products and services closer to customers. In particular, more and more tourist websites are being built.

With the desire to build a system of tour introduction on the website that is convenient and easy for users to use. We have implemented the topic "Building a website to manage tour booking". We believe that this is a very useful topic for customers to have suitable tours and increase tour booking efficiency for travel agencies.

During the implementation of the project, we have received a lot of guidance, help and sincere suggestions from Mr. Nguyen Thien Bao. You helped us a lot to complete the final project. We have tried our best and we cannot avoid shortcomings. I look forward to your contribution help us to improve the topic.

1.2. Objectives

After discussion, we want to make business management more convenient and easier, we have analyzed and implemented a project "Website Booking Tour".

"Website Booking Tour" is a management website with full of basic functions, eye-catching interface, easy to operate, user-friendly will be suitable for small and medium businesses.

Building a management website will help businesses manage business operations effectively, with clear processes, improve employee efficiency and productivity, avoid errors and information loss, and easily monitor and track business goals.

Type of user	Purpose
System development team	To understand the functions and characteristics of the system being developed (understanding what user requirements the system fulfills). And used in the system design process.
Testing team	Serving to build test documents and test system functionality (system test)
Client	Know the functions and characteristics of the software in the future, promptly exchange and modify
Investor	As the basis for signing the contract

1.3. Document Description

Part 1: General introduction: an overview of the analysis and design documents of Traveloka.

Part 2: Survey plan and method to research.

Part 3: Overall description: an overview of the management system of website booking tour

Part 4: System requirements specification: specification of functional and non-functional requirements of booking tour management system.

1.5. Project implementation plan

Step 1: Identify the requirements:

- Define requirements related to book tour
- Gather insights to learn what the requirements are, how it works, and where it needs improvement.
- Consult and experience related applications.
- Online user survey.
- Meeting and evaluating project feasibility and scope

Step 2: Design the data

- Design data corresponding to each type of software requirements to ensure correctness and evolution with the software
- Build the specific logic diagram of the software

Step 3: Design the interface

- Define what functions are displayed on each screen

Step 4: Design back-end

- The code is presented in a MVC model and is divided according to the required tasks.
- Apply other APIs and check the security.

Step 6: Testing

- Fix bugs
- Clear test case to check the effectiveness of the system.

II. TASK ASSIGNMENT

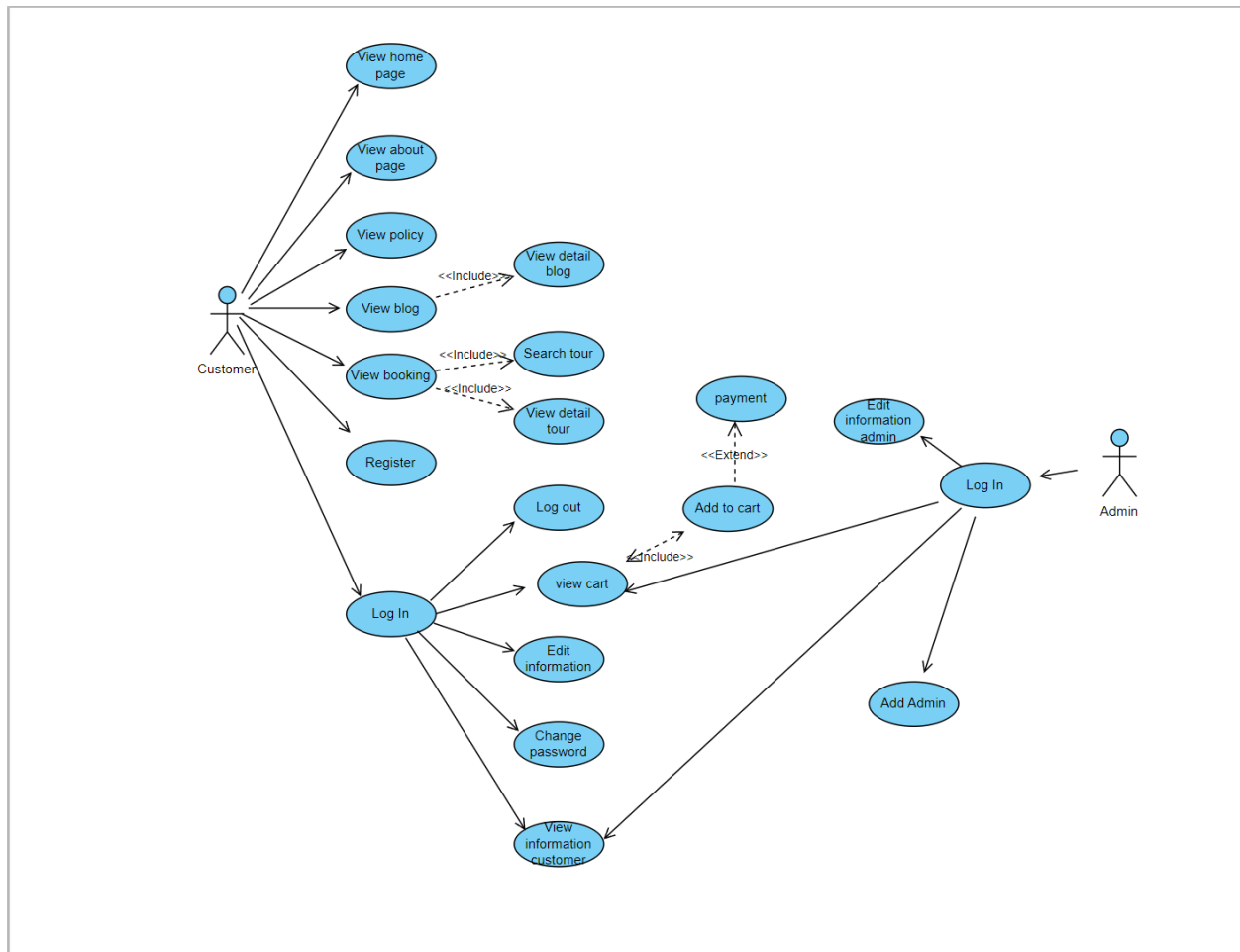
Student's name	Evaluate contribution	Taskwork
Nguyễn Huỳnh Thanh Toàn	100%	Programmer, algorithms for project, design Back-end structure, database design
Bùi Ngọc Ánh	100%	Programmer, analyses requirements, design Front-end structure, find data and survey the market

Nguyễn Hoàng Nhật Nam	100%	Programmer, analyses requirements, design Front-end structure, find data and survey the market
Vũ Trọng Nhân	100%	Supporting programmer, Tester for project, find data and survey the market

III. DETERMINATION AND MODELING REQUIREMENTS

3.1. Website requirements

3.1.1. User case



3.1.2. Professional requirements

The main activities of tour booking on the website include:

- Admin login to the system to view customer data, tour status, shopping cart for each person
- Admin update tour, add account
- Admin add another admin account
- Users change personal information, add tours to cart, book tours, view blogs, policies, about, contact

3.1.3. System Requirements

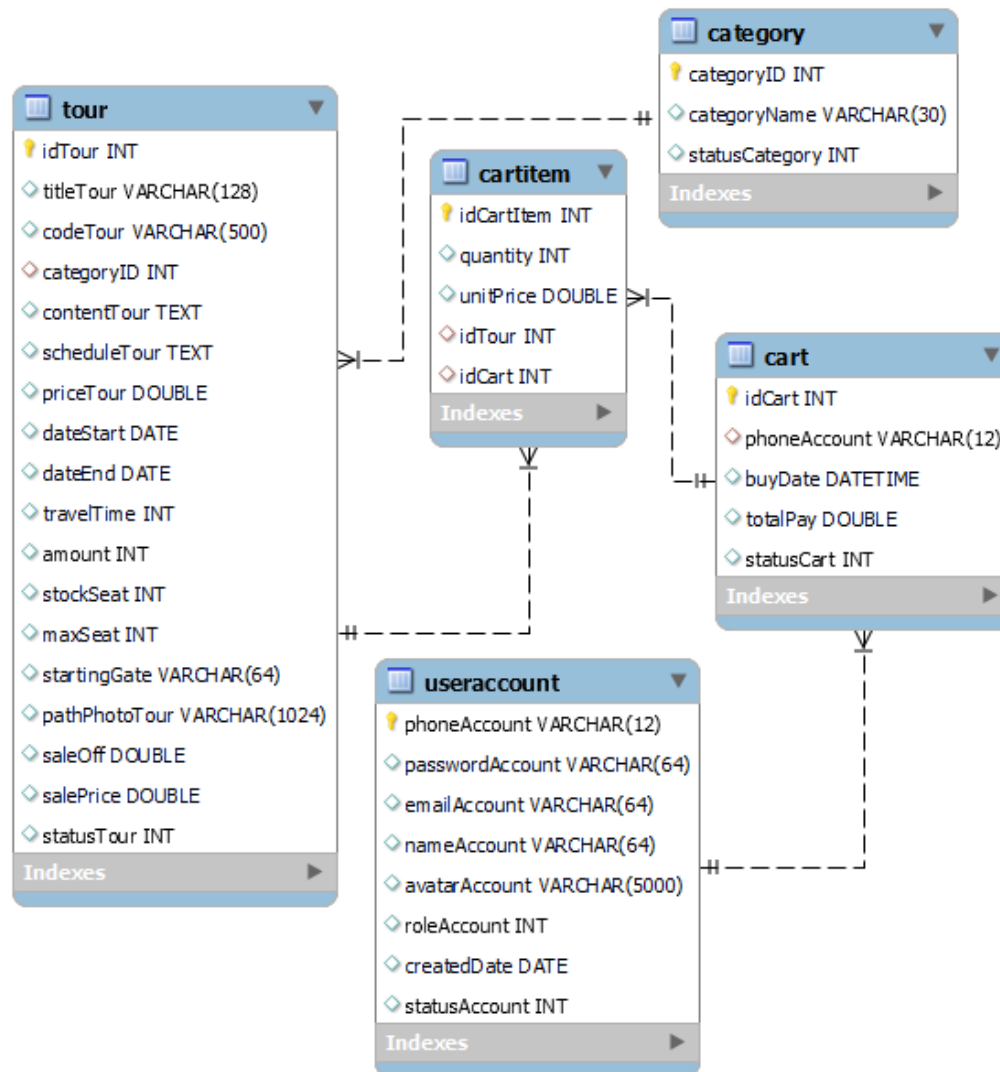
Table 1. List of security requirements

No	Major	Administrator	Customer	Others
1	Decentralization	X		
2	Add tour to cart		X	
3	Search		X	
4	View tour information	X	X	
5	Edit tour	X		
6	Add new admin	X		
7	Edit customer information		X	
8	Edit admin information	X		
9	View seats	X	X	
10	View Cart	X	X	

Table 2. List of safety requirements

No	Major	Subject	Note
1	Delete Tour	System management	
2	Delete Customer	System management	
3	Deletion Blog	System management	

IV. DATABASE DESIGN



V. DESIGN WEBSITE

5.1. Home Page




[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

LOG IN

Our Popular Tour

Recent Tour



BÀ RIJA - VŨNG TÀU

1 Days


Start: 13/12 End: 13/12

Starting Gate: Hồ Chí Minh

Seats: 0/12

600.000 VND/Person

570.000 VND/Person



PHÙ QUỐC


3 Days

Start: 10/12 End: 12/12

Starting Gate: Cần Thơ

Seats: 5/20

2.290.000 VND/Person



THỪA THIÊN HUẾ

3 Days

Start: 10/12 End: 12/12

Starting Gate: Đà Nẵng

Seats: 14/20

1.700.000 VND/Person

f

✉

☎

Recent Tours are the latest Tours and in Tour status is "active" newly updated when adding new tours (Sort Descending by idTour).

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

LOG IN

Start: 10/12 End: 11/12

Starting Gate: Hồ Chí Minh

Seats: 16/30

1.500.000 VND/Person

1.350.000 VND/Person

Start: 10/12 End: 11/12

Starting Gate: Hồ Chí Minh

Seats: 23/30

2.500.000 VND/Person


Start: 10/12 End: 11/12

Starting Gate: Hồ Chí Minh

Seats: 24/40

500.000 VND/Person

DISCOUNT UP TO 50%

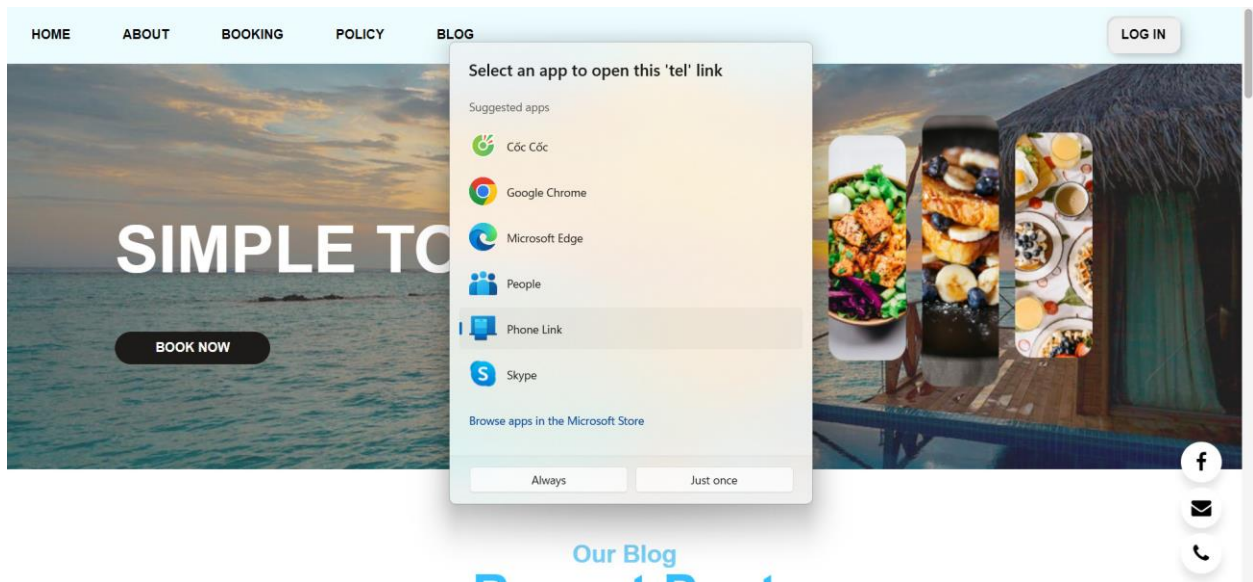
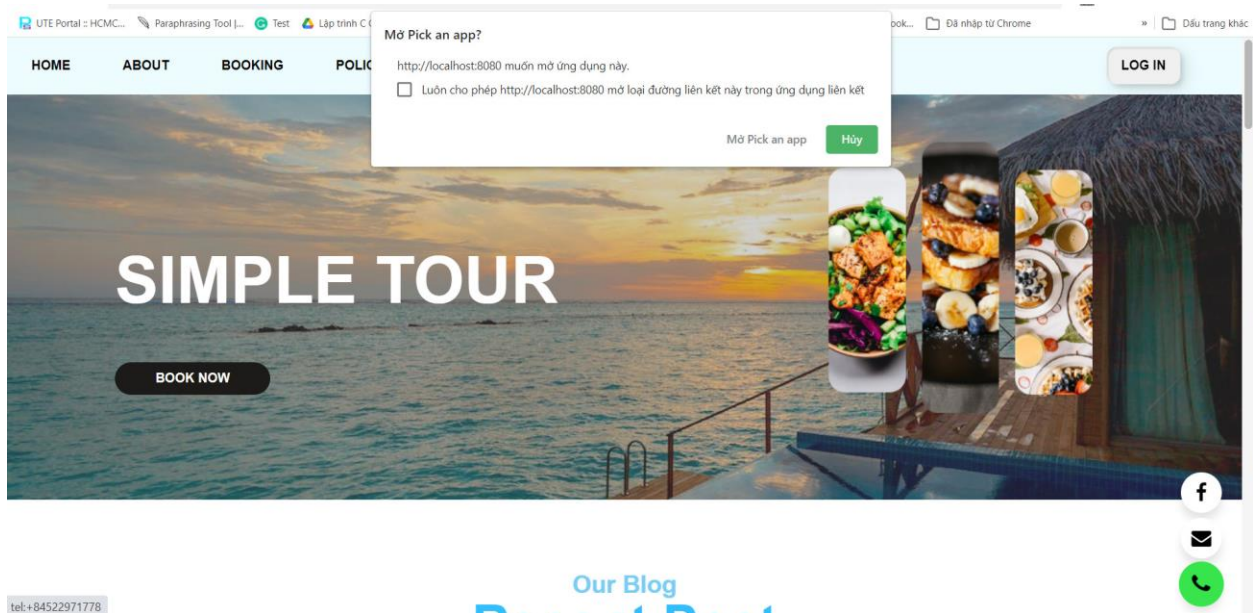


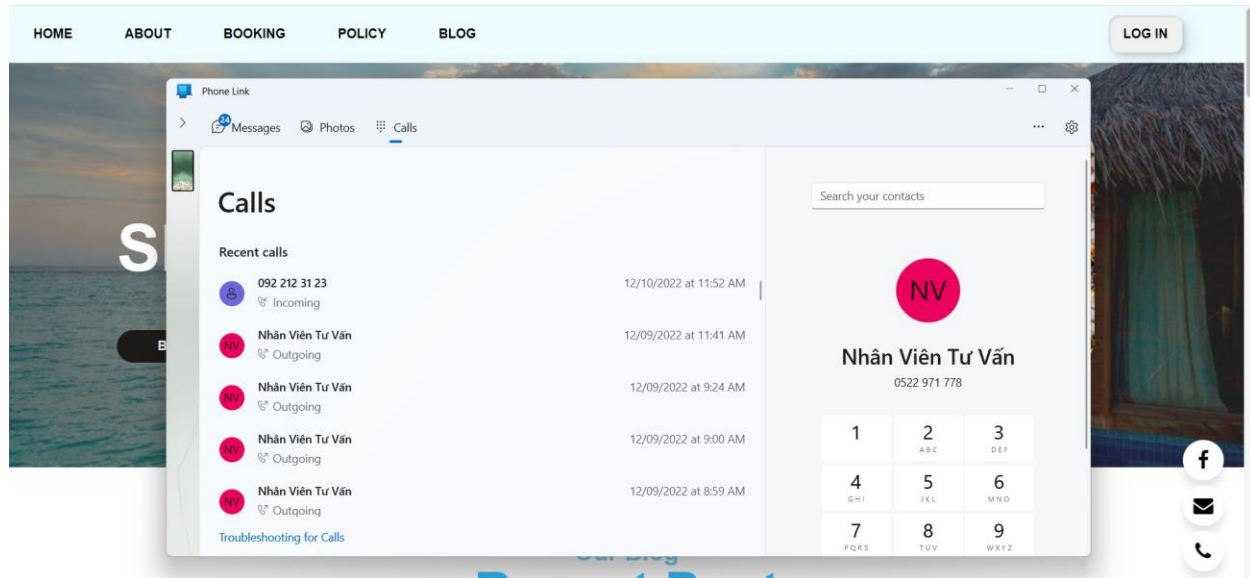
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✉

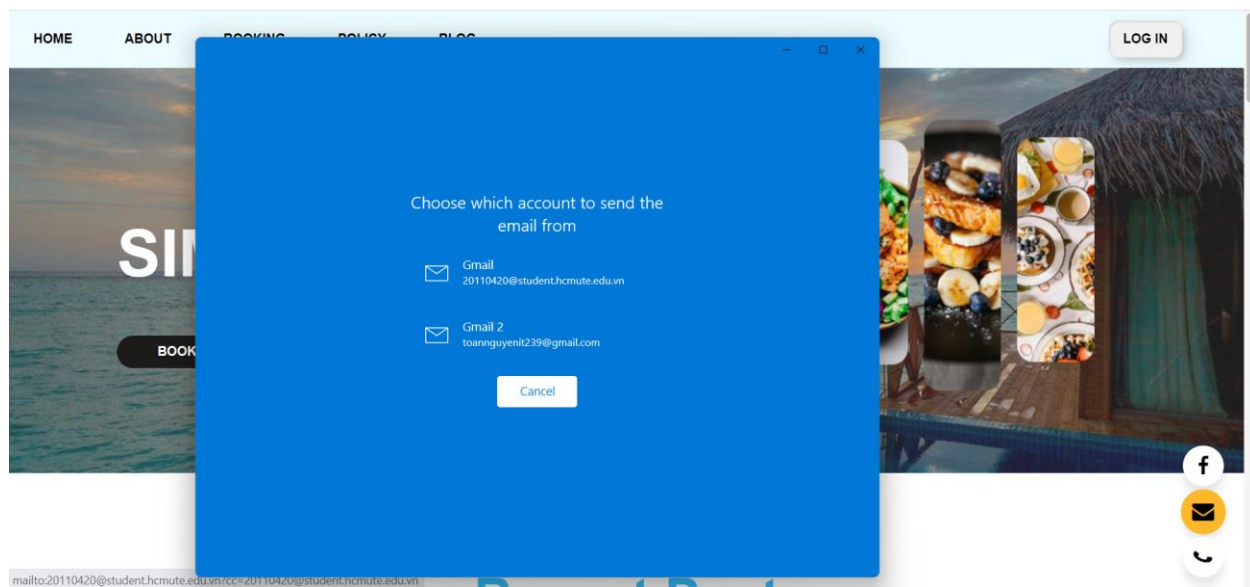
☎

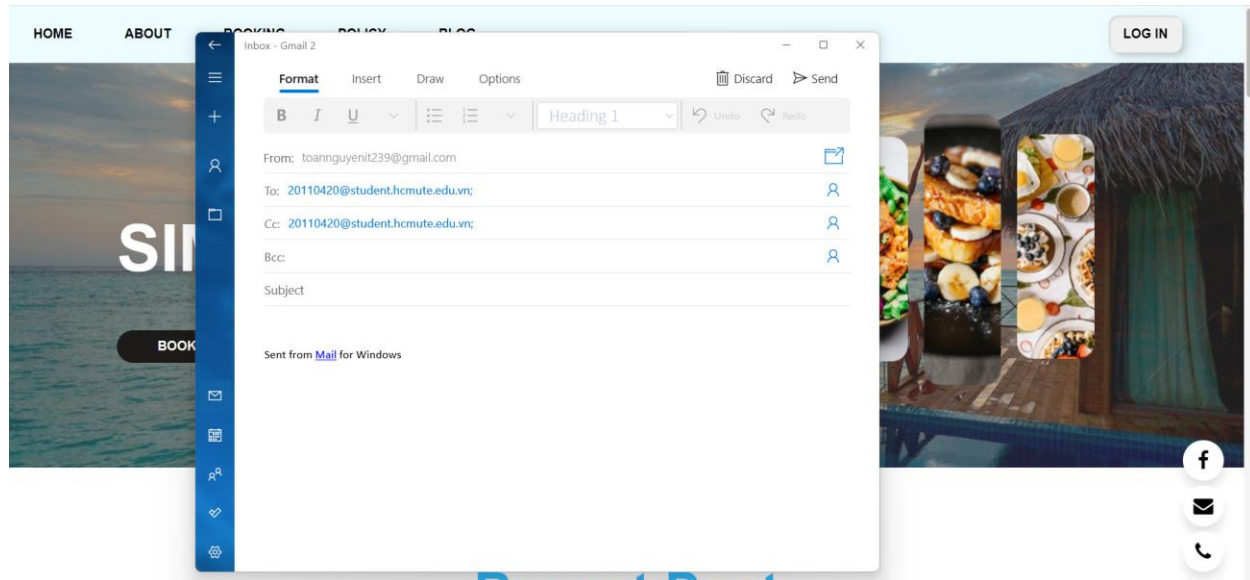
In addition, there is also a call button linked to the phone link to call the customer service center



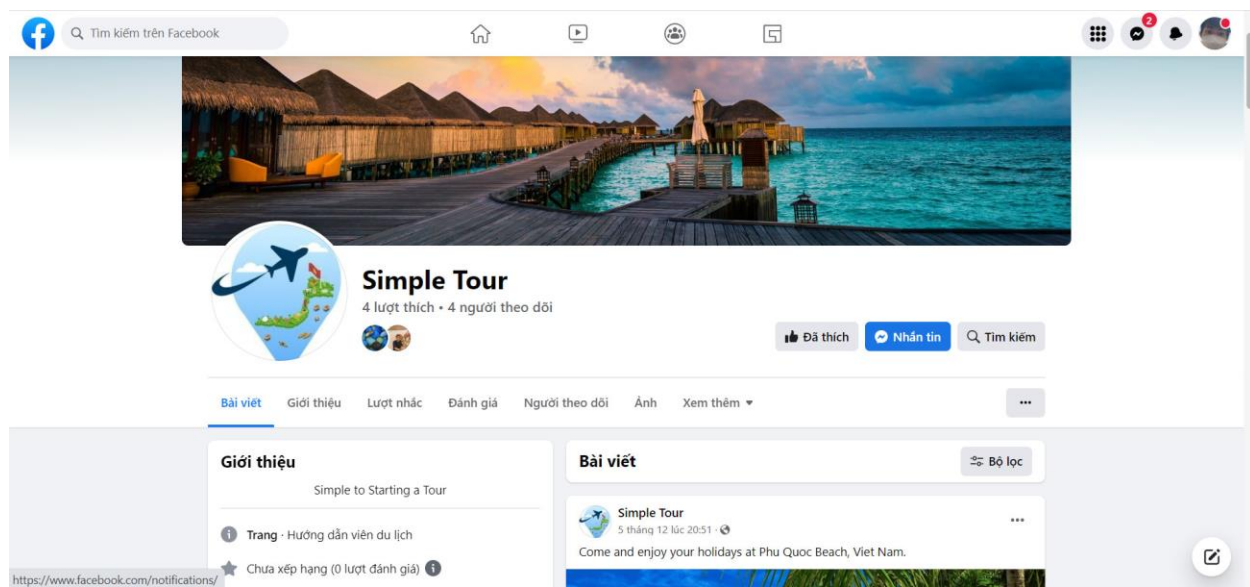


Click the gmail button to be able to contact the company via gmail

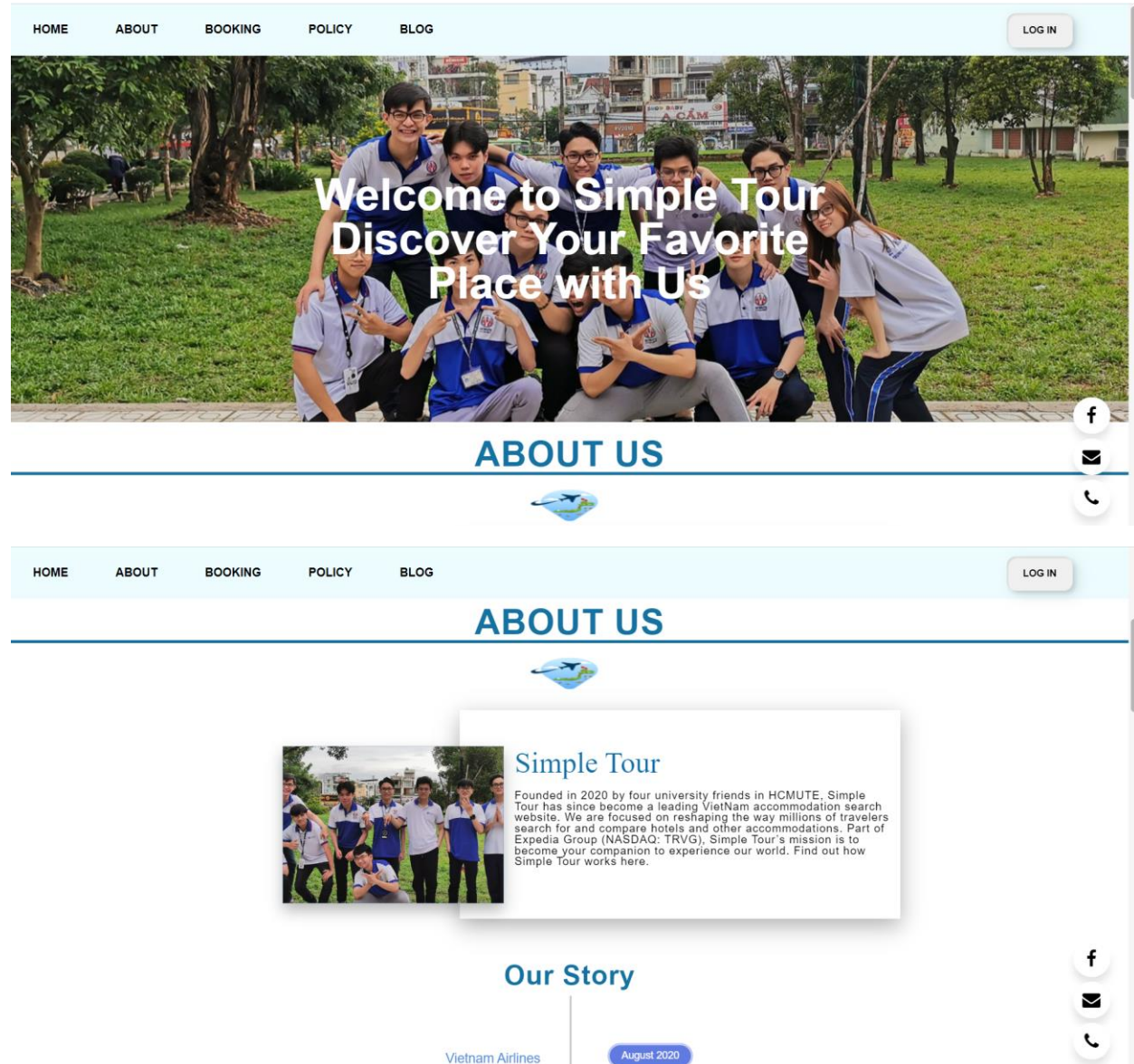




Clicking on the facebook icon will link to Simple Tour's facebook page



5.2. About Page



Our Story

Vietnam Airlines

Officially signed a long-term contract with Vietnam Airlines
- a famous airline in Vietnam to help you have many
incentives as well as provide many services.

August 2020



February 2021



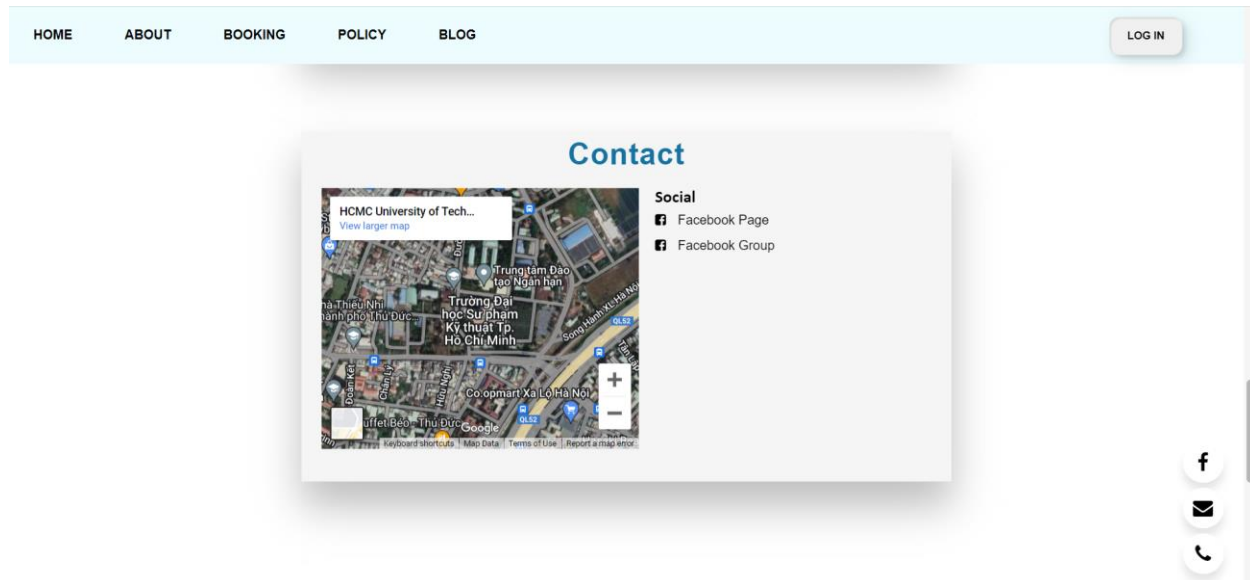
Foreign Tours

The service is extended to foreign tours to help you have a
rich experience



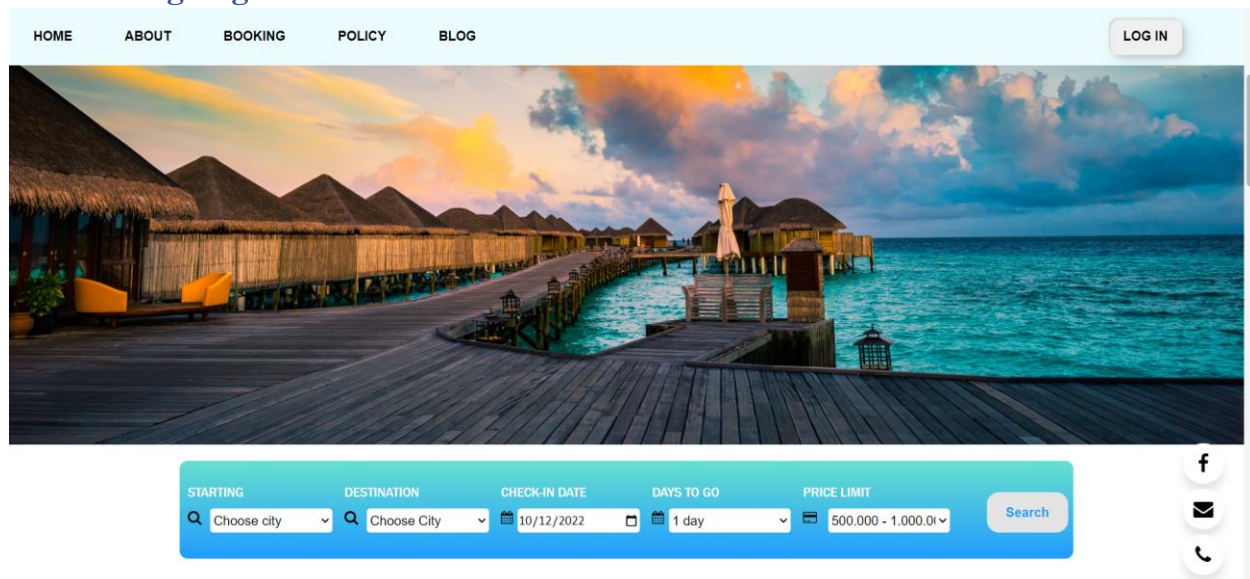
Our Staff





The contact section adds a google api connection to indicate the exact location of the company

5.3 Booking Page



Sale Tour



SALES OFF

CÙ CHI

🕒 1 Days

📅 Start: 10/12 End: 10/12

📍 Starting Gate: Hồ Chí Minh

🚗 Seats: 16/20

~~500.000 VND/Person~~ **-20%**
400.000 VND/Person

SALES OFF

KHÁNH HÒA - NHA TRANG

🕒 2 Days

📅 Start: 05/12 End: 06/12

📍 Starting Gate: Ninh Thuận

🚗 Seats: 14/20

~~2.040.000 VND/Person~~ **-15%**
1.734.000 VND/Person

SALES OFF

KIÊN GIANG - PHÚ QUỐC

🕒 3 Days

📅 Start: 05/12 End: 07/12

📍 Starting Gate: Hồ Chí Minh

🚗 Seats: 2/20

~~5.490.000 VND/Person~~ **-10%**
4.941.000 VND/Person

Sale Tours are the tours with the most discounts and the Tour status is "active" to be updated when there are new tours with larger saleOff (Sort descending by saleOff).

Tour



SALES OFF

BÀ RIÀ - VŨNG TÀU

🕒 1 Days

📅 Start: 13/12 End: 13/12

📍 Starting Gate: Hồ Chí Minh

🚗 Seats: 0/12

~~600.000 VND/Person~~ **-5%**
570.000 VND/Person**PHÚ QUỐC**

🕒 3 Days

📅 Start: 10/12 End: 12/12

📍 Starting Gate: Cần Thơ

🚗 Seats: 5/20

2.290.000 VND/Person**THỪA THIÊN HUẾ**

🕒 3 Days

📅 Start: 10/12 End: 12/12

📍 Starting Gate: Đà Nẵng

🚗 Seats: 14/20

1.700.000 VND/Person

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

LOG IN

ĐÀ NẴNG
 2 Days
 Start: 10/12 End: 11/12
 Starting Gate: Đà Nẵng
 Seats: 10/20
1.000.000 VND/Person

SALES OFF
LÂM ĐỒNG - ĐÀ LẠT
 3 Days
 Start: 10/12 End: 12/12
 Starting Gate: Hồ Chí Minh
 Seats: 19/20
1.700.000 VND/Person -10%
1.530.000 VND/Person

SALES OFF
KHÁNH HÒA - NHA TRANG
 3 Days
 Start: 10/12 End: 12/12
 Starting Gate: Hồ Chí Minh
 Seats: 37/40
1.700.000 VND/Person -5%
1.615.000 VND/Person

1 2 3 4 >

[f](#)
[✉](#)
[☎](#)

Sorted 6 tours per page are the latest tours and have the Tour status "active" (Sort Descending by idTour).

5.4. Policy Page

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

LOG IN

Terms of Use

Simple Tour

AGREEMENT BETWEEN USER AND SIMPLETOUR N.V.

1. General

Welcome to the SimpleTour.com website (the "Website"). The terms "we", "us", "our", "SimpleTour" and "SimpleTour N.V." refer to SimpleTour N.V. having its offices at Kesselstraße 5-7, 40221 Düsseldorf, Germany, a public company with limited liability (naamloze vennootschap) incorporated under the laws of the Netherlands and registered with the trade register of the Chamber of Commerce in Amsterdam under registration number 67222927. Access to our Website, any SimpleTour mobile or tablet application, or any other feature or other SimpleTour platform (collectively the "Platform") is offered to you conditioned upon your acceptance without modification of all the terms, conditions, and notices set forth below (collectively, the "Terms"). We recommend that you print a copy of these Terms for future reference. Please read these Terms carefully, as they contain important information about limitations of liability and resolution of disputes through arbitration rather than in court. You should also read our Privacy Policy, which also governs your use of our Platform and sets out the terms on which we may process any personal information that we collect about you, or that you provide to us, and is incorporated by reference into these Terms. The Privacy Policy can be found here. By accessing or using our Platform, you acknowledge and agree to have read, understood, and agreed to be legally bound by these Terms and our Privacy Policy. If you do not agree to these Terms, please do not use or access our Platform or contact our support center here.

2. Changes to the Terms

We may amend these Terms from time to time to comply with any regulatory requirements or if there are changes to our business practices. Every time you wish to use our Platform, please check these Terms to ensure you understand the terms that apply at the time. Your use of our Platform will be subject to the most recent version of the Terms available on the Platform. We recommend that you read through the Terms available on the Platform regularly so that you can be sure that you are aware of any changes that may apply to you.

3. Access and Use of the Platform

The Platform is currently made available to you for your personal, non-commercial use, free of charge.

We do not guarantee that access to the Platform, or any content on it, will always be available or be uninterrupted. We may suspend, withdraw, discontinue or change all or any part of the Platform without notice to you.

You must not misuse the Platform by knowingly introducing viruses, trojans, worms, back doors or any other material which is

5.5. Blog Page

[HOME](#) [ABOUT](#) [BOOKING](#) [POLICY](#) [BLOG](#) [LOG IN](#)

ta cứ đi
cùng nhau

Đường cuộc sống đầy gió bụi, hành trình dài,
mãi gặp mặt một cái thời đã trở thành ngày xưa.

Travel

With its dizzying metropolises, blissful islands and immense national parks (not to mention a legendary cuisine!), Vietnam tops many travelers' bucket lists

The highlights of the country are innumerable, but there are some spots that simply can't be skipped.

Travel experience



[HOME](#) [ABOUT](#) [BOOKING](#) [POLICY](#) [BLOG](#) [LOG IN](#)

Travel experience




[MY BLOG](#)



[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)


LOG IN

MY BLOG




Top 5 outstanding tourist attractions in Dalat

20-10-2022



TOP 7 Da Lat specialties and delicious


20-10-2022




Top 5 famous beautiful Nha Trang tourist attractions

Com - The beauty of Nha Trang's long-standing culinary culture


20-10-2022



Top Vietnamese food



Top 4 most beautiful





Top 5 Delicacies of Phu Quoc

f


5.6. My Account Page

User only can change account name and account password

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)


User information



Anh

Logout

>



MEOW

Anh

Name Account

Anh

Edit

Phone Account

0907010301

Email Account

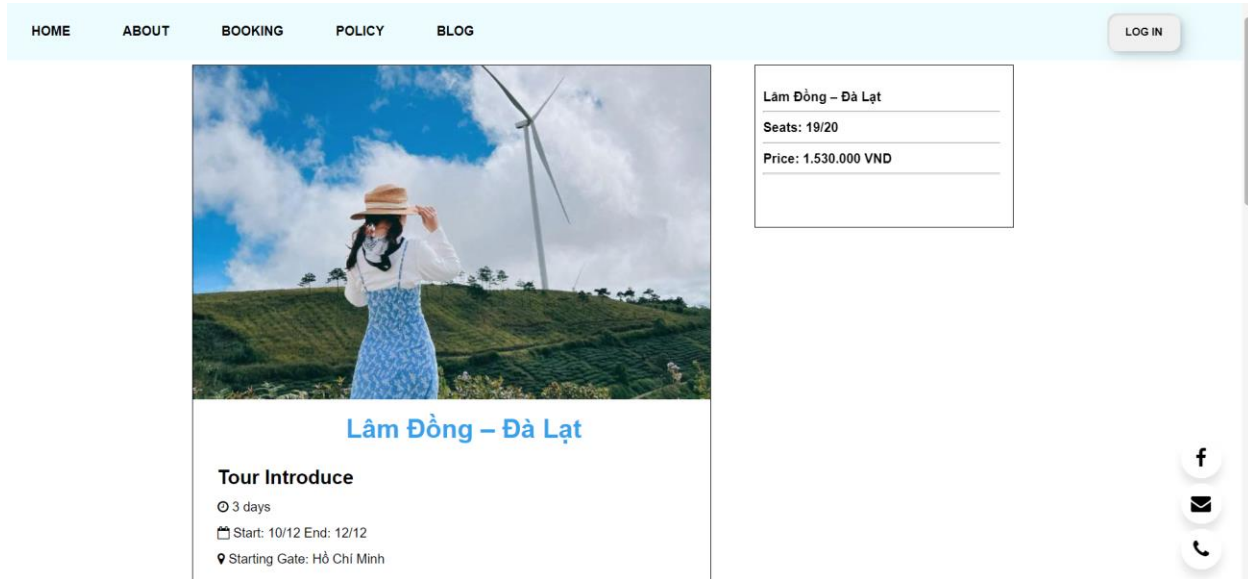
anhbui@gmail.com

Password Account

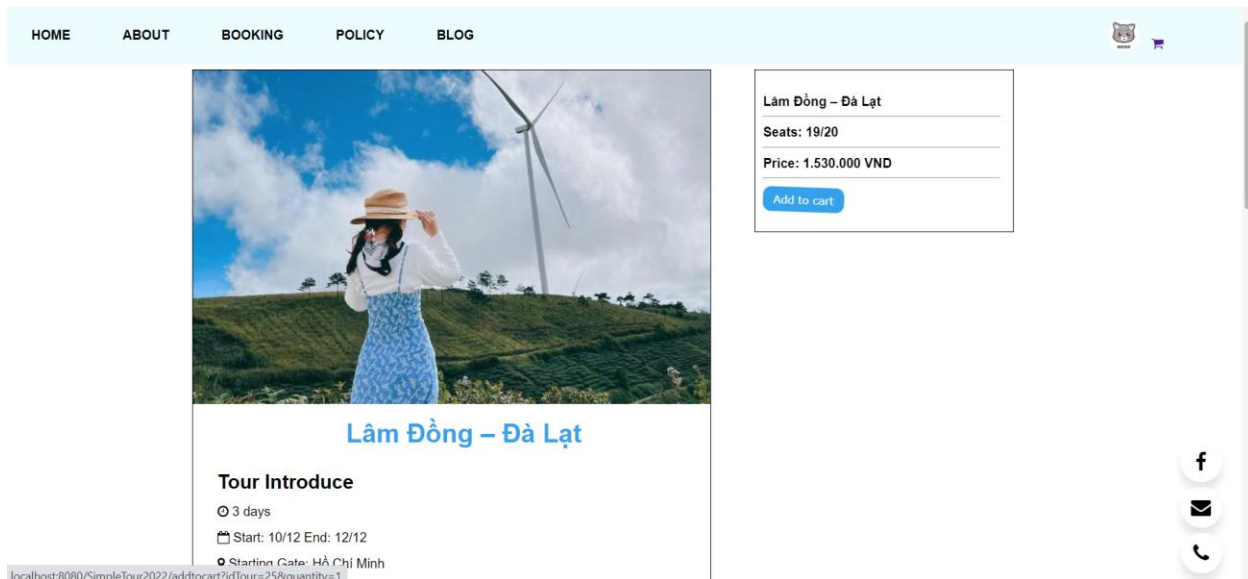
Edit

f

5.7. Tour Detail Page



For guests there will be no "Add To Cart" button.



For users there will be an "Add To Cart" button.

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

LOG IN

Recommended Tours

AN GIANG - CHÂU ĐỐC
 2 Days
 Start: 05/12 End: 06/12
 Starting Gate: Hồ Chí Minh
 Seats: 19/25
2.191.000 VND/Person

KIÊN GIANG - NAM GIANG
 2 Days
 Start: 05/12 End: 06/12
 Starting Gate: Hồ Chí Minh
 Seats: 15/40
1.790.000 VND/Person

ĐÀ NẴNG - HỘI AN
 3 Days
 Start: 05/12 End: 07/12
 Starting Gate: Hồ Chí Minh
 Seats: 30/40
2.780.000 VND/Person

[f](#)
[✉](#)
[☎](#)

Recommend Tours are suggested tours that are sorted in ascending "dateStart" and descending "amount" (the number of guests who have booked the tour since the tour was created) based on the criteria (first is "dateStart" - the start date , followed by "startingGate" - the starting point, with the condition that the Tour status is "active" and $\text{stockSeat} < \text{maxSeat}$ - the number of guests who have booked the tour must be less than the booking limit of the Tour).

5.8. Cart Page

[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

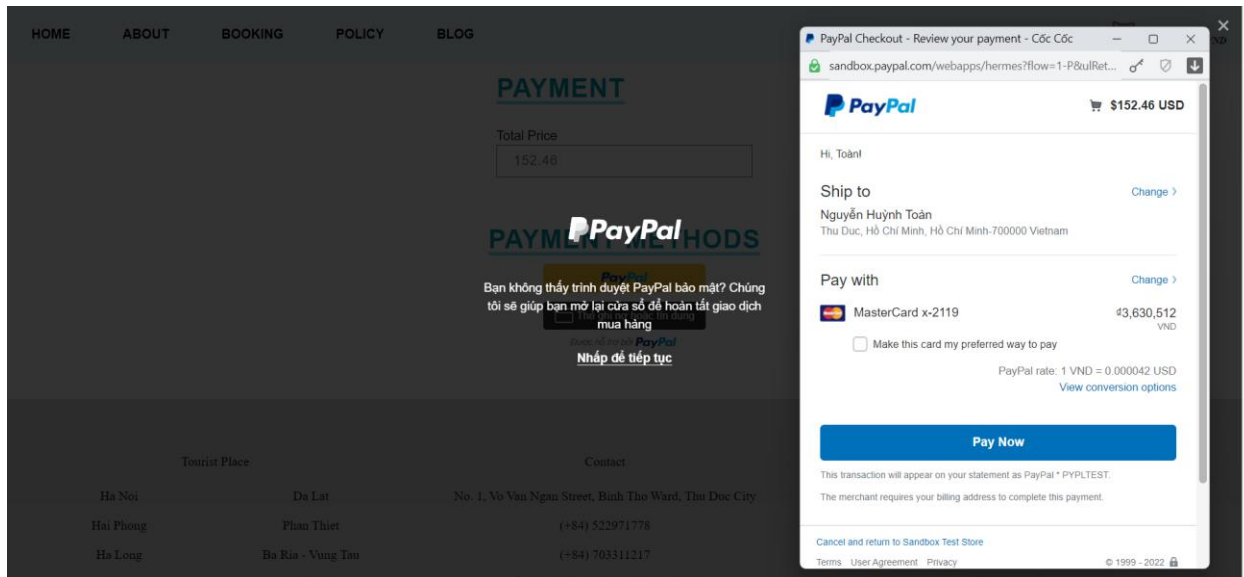
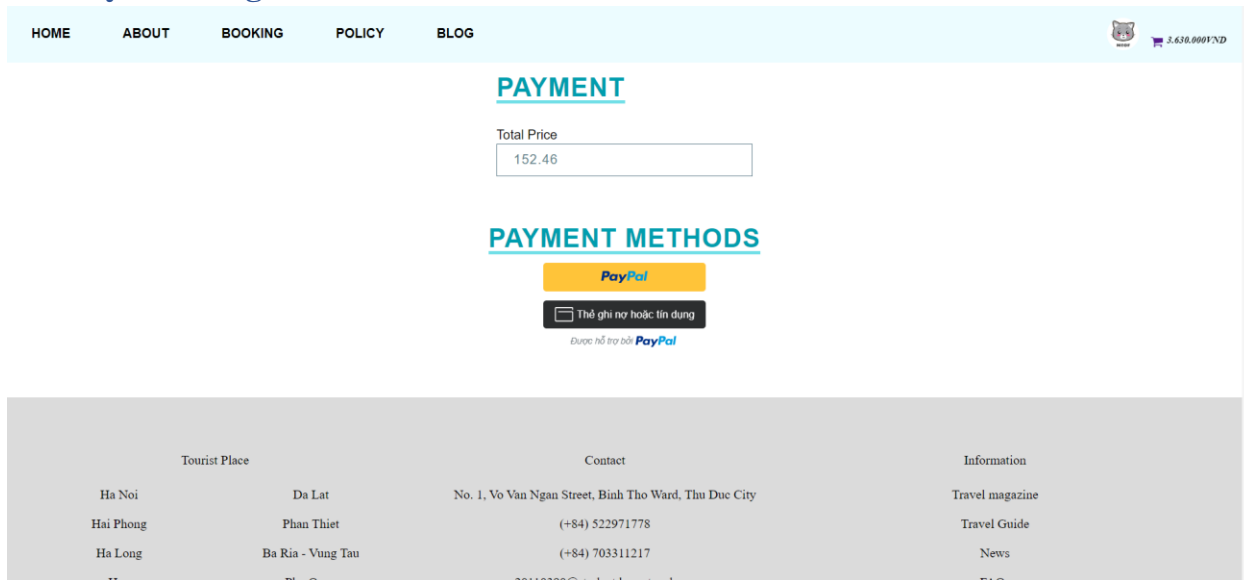
3.630.000VND

30		Bà Rịa - Vũng Tàu	570.000	<input type="text" value="1"/>	
25		Lâm Đồng – Đà Lạt	1.530.000	<input type="text" value="2"/>	

Total Price: 3.630.000VND
Total Price: 152.46USD

Pay

5.9. Payment Page



[HOME](#)
[ABOUT](#)
[BOOKING](#)
[POLICY](#)
[BLOG](#)

3.630.000 VND

PAYMENT

Total Price

152.46

PAYMENT METHODS

Done

Tourist Place		Contact	Information
Ha Noi	Da Lat	No. 1, Vo Van Ngan Street, Binh Tho Ward, Thu Duc City	Travel magazine
Hai Phong	Phan Thiet	(+84) 522971778	Travel Guide
Ha Long	Ba Ria - Vung Tau	(+84) 703311217	News
Hue	Phu Quoc	20110390@student.hcmute.edu.vn	FAQs
Quang Binh	Can Tho	Social Network	Privacy Policy
Da Nang	Ha Tien	f i t p	Terms of use

5.10. Admin Profile Page

Admin

[Logout](#)

Bui Ngoc Anh

[Profile](#)

Admin > Profile

[Account Table](#)

[Tour Table](#)

Bui Ngoc Anh
20110354@student.hcmute.edu.vn

Full Name

Bui Ngoc Anh

Email

20110354@student.hcmute.edu.vn

Password

Link Avatar

https://iili.io/H2dT0kg.png

Phone


0522971778

Created Date

07/01/2022

Update Profile

5.11. Admin Manage Account Table Page


 Admin

Profile

Account Table

Tour Table

Logout

 Bui Ngoc Anh

Account Table

Admin > Account Table

Insert Account

Phone	Name	Email	Password	Role	Created Date	Status	Options
0234567890	Le Hoang Lam	20110030@student.hcmute.edu.vn	11111111	User	02/12/2022	Active	<div>Edit</div> <div>Delete</div>
0345678901	Ta Hoai Nam	20110384@student.hcmute.edu.vn	bame18082002@	User	01/12/2022	Locked	<div>Edit</div> <div>Delete</div>
0365844202	Vu Trong Nhan	20110390@student.hcmute.edu.vn	11111111	User	30/11/2022	Active	<div>Edit</div> <div>Delete</div>
0522971778	Bui Ngoc Anh	20110354@student.hcmute.edu.vn	taiocho123	Admin	07/01/2022	Active	<div>Edit</div> <div>Delete</div>
0703311217	Nguyen Hoang Nhat Nam	20110383@student.hcmute.edu.vn	namok12345	Admin	24/11/2022	Active	<div>Edit</div> <div>Delete</div>

Profile

Account Table

Tour Table

Edit Account

Admin > Account Table > Edit Account

EDIT ACCOUNT

Phone

0345678901

Password

.....

Email

20110384@student.hcmute.edu.vn

Name

Ta Hoai Nam

Link Avatar

https://scontent.fsgn2-1.fna.fbcdn.net

Role

☐ Admin ☒ User

Status

☐ Active ☒ Locked

5.12. Admin Manage Tour Table

Profile

Account Table

Tour Table

Tour Table

Admin > Tour Table

Insert Tour

Title	Category	Price	Sale	Travel Time	Amount	Starting Gate	Status	Options
Kiên Giang - Phú Quốc	Kiên Giang	5.490.000	10%	3	12	Hồ Chí Minh	Active	<div>Edit</div> <div>Delete</div>
Khánh Hòa - Nha Trang	Khánh Hòa	2.040.000	15%	2	24	Ninh Thuận	Active	<div>Edit</div> <div>Delete</div>
An Giang - Châu Đốc	An Giang	2.191.000	0%	2	49	Hồ Chí Minh	Active	<div>Edit</div> <div>Delete</div>
Lào Cai - Sapa	Lào Cai	3.050.000	5%	2	50	Hà Nội	Active	<div>Edit</div> <div>Delete</div>
Đà Nẵng - Hội An	Đà Nẵng	2.780.000	0%	3	20	Hồ Chí Minh	Active	<div>Edit</div> <div>Delete</div>
Khánh Hòa - Nha Trang	Khánh Hòa	2.821.000	0%	3	50	Hồ Chí Minh	Active	<div>Edit</div>

Profile

Account Table

Tour Table

Edit Tour

Admin > Tour Table > Edit Tour

EDIT TOUR

Title

Thừa Thiên Huế

Category ID

31

Content

Da Lat is also called by many other na

Schedule

<p>DAY 1: DA NANG - LANG CO BAY -

Price

1700000

Date Start

VI. CONCLUSION

Student evaluation

- Almost requirements are met.
- Design the application with many programming paradigm.
- Simple interface design for easy using.
- The code is quite clean and reusable.

Difficulties

- Learning new technology is an issue for us since it slows down project development.
- Multi-threading programming is also a challenge for us because we lack sufficient expertise and experience.

Advantages

- Quite clean code.
- Meets the requirements of the project.
- Simple interface users can easily use this application to manage.
- Reuse, recycling, and maintainability.

Disadvantages

- Inexperience in web programming.
- Team work.
- Time limited.

Development ideas

We may update management capabilities to become technical and professional, rather than enabling users to have basic management functions.