



5CLCsCan



• VERSION 1.3.1



OVERVIEW

Gogle platform provide a trip planning recommendations and exploration experience within Ho Chi Minh City.

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PRODUCT POSITION

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DESIGN UI

SOFTWARE TESTING

PROJECT MANAGEMENT

MANAGEMENT TEAM

5CLCsCan TEAM MEMBERS



Lê Duy Anh
22127012

Back-end Developer

Cao Hữu Khuong Duy
22127083

Data Engineer
Tester

Lý ĐÌnh Minh Mẫn
22127255

Front-end Developer
Tester

võ Nguyễn Phuóng Quỳnh
21127039

UI Designer
Front-end Developer

Huỳnh Cao Tuấn Kiệt
221272219

Project Manager
Back-end Developer

RESPONSIBILITY



➤ Lê Duy Anh

Responsible for spearheading the development of server-side software (back-end) and fulfilling the role of a business analyst within the project. The duties of the Back-end Developer encompass constructing server-side logic, establishing search engine functionality, and guaranteeing alignment with the customer's requirements.



➤ Cao Hữu Khuong Duy

Responsible for data engineering and conducting tests to guarantee the quality and performance of the application, the role of a Data Engineer/Tester encompasses tasks such as constructing the database, integrating server-side logic, and executing both functional and performance evaluations on the application.



RESPONSIBILITY



➤ Huỳnh Cao Tuấn Kiệt

Responsible for project management and back-end development. His task includes meticulous planning, making strategic decisions, and delegating tasks to ensure that the project progresses smoothly and efficiently. He plays a pivotal role in defining the primary concept for the recommendation system, ensuring that it aligns with the project's goals and objectives.

➤ Lý Đình Minh Mẫn

Responsible for developing the user interface and ensuring application quality, the tasks of the Front-end Developer/Tester encompass constructing engaging, developing platform's interfaces and interactive user interfaces while conducting UI and performance testing of the application.



➤ Võ Nguyễn Phuong Quỳnh

Responsible for developing the user interface and designing visually appealing interfaces for the application. The tasks of the Front-end Developer/UI Designer include building attractive and interactive user interfaces, ensuring a good user experience, and integrating design requirements into the product.



POSITIONING

Problem Statement



THE PROBLEM OF

- Difficulty in discovering new and interesting places to hang out for resident. The sheer volume of options, coupled with mistrust in online reviews and limited marketing from local businesses, makes it challenging for them to find spots that truly resonate with their preferences. This can lead to a stagnant social life and missed opportunities to explore vibrant local venues.

POSITIONING

Problem Statement



➤ AFFECTS

- residents who are familiar with their surroundings and struggle to find fresh destinations to meet friends and family
- Newcomers or travelers want to discover local lifestyle

➤ THE IMPACT OF WHICH IS

- a lack of variety in social activities, leading to monotonous experiences and missed opportunities to explore the city's hidden gems
- Difficulty in navigating and exploring the city, missing out on the local culture and unique experiences

➤ A SUCCESSFUL SOLUTION WOULD BE

- User-friendly platform that provides personalized recommendations for destinations and activities, allowing residents to discover new and exciting places, enhancing their social experiences and fostering a deeper connection with their city.

POSITIONING

Product Position Statement



FOR

- residents of Ho Chi Minh City
- newcomers to Ho Chi Minh City
- travel enthusiasts and planners

WHO

- want to discover new and interesting places to meet friends and family
- need an easy and efficient way to navigate and explore the city
- seek a user-friendly and efficient way to organize their trips within Ho Chi Minh City



THE (PRODUCT NAME)

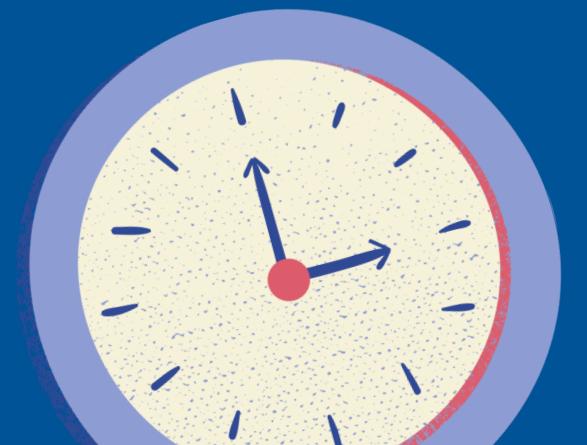
➤ **Google.studio**

THAT

- provides personalized recommendations and highlights hidden gems within the city
- integrates maps, weather updates, and local recommendations in one place
- combines features such as budget planning, reservation systems, and AI-powered suggestions

UNLIKE

- traditional travel websites that offer generic recommendations and lack integrated planning tools
- using multiple separate apps for navigation, weather, and travel tips





OUR PRODUCT:

offers tailored suggestions that even locals might not know about, making every outing a new adventure

- provides a seamless and cohesive experience, simplifying trip planning and enhancing the exploration of the city
- delivers a highly customized and integrated planning experience, ensuring users make the most out of their trips



USER :

- Residents of Ho Chi Minh City: Long-time residents familiar with the city who are familiar with their surroundings and struggle to find fresh destinations to meet friends and family.
- Newcomers to Ho Chi Minh City: Individuals who recently moved to the city and need an easy and efficient way to navigate and explore the city
- Travel Enthusiasts: Passionate travelers seeking unique experiences, want to discover local lifestyle





MARKET:

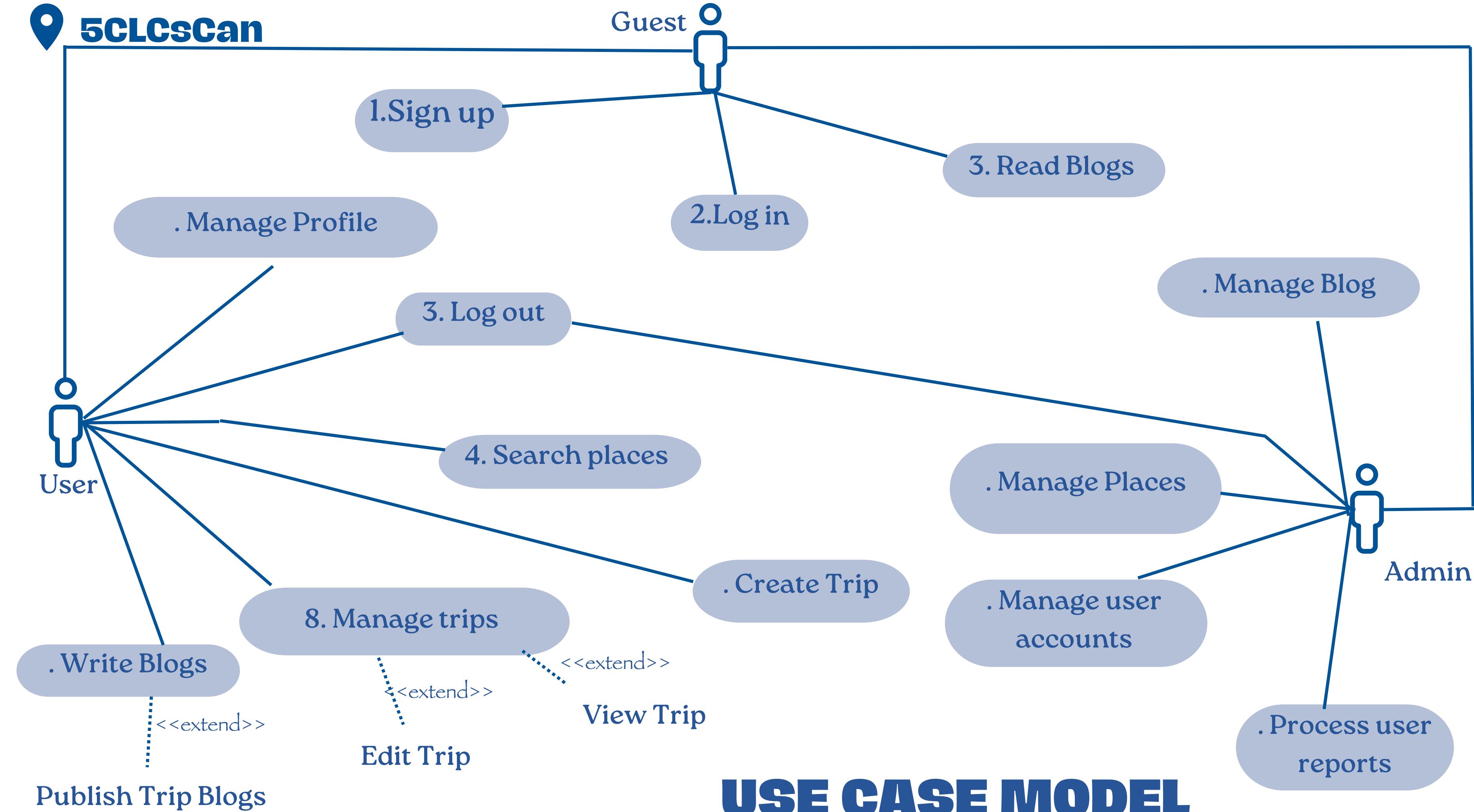


- Travel and Tourism Market: This market involves tools and services for planning and enhancing travel experiences, including travel apps, booking platforms, and recommendation engines. It caters to travelers and businesses like travel agencies and tour operators, aiming to connect users with personalized travel options.





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USE CASE MODEL



NON-FUNCTIONAL REQUIREMENTS

Applicable standards

- The website is designed to function on the latest available version of Google Chrome.
- Written: Version 116.0.5845.14 (June 30, 2023) is used as a reference.
- Compatibility with other browsers will be updated in the future.

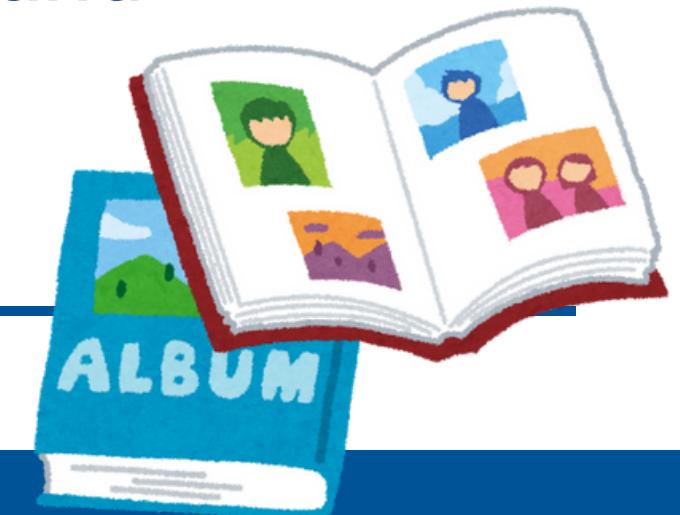


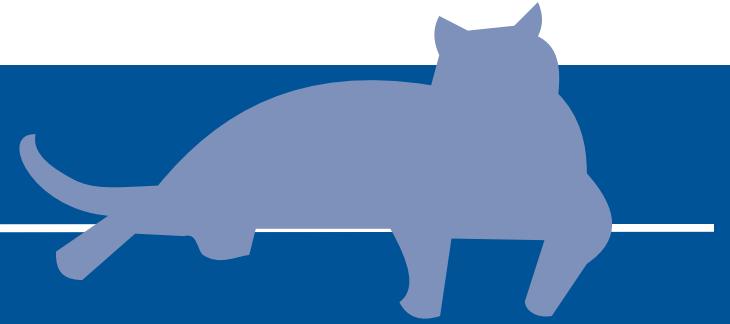
NON-FUNCTIONAL REQUIREMENTS

SYSTEM STANDARDS

- The client-side of the website should use no more than **1GB of RAM**.
- The client component of the website shall be run on a computer with a graphical screen.
- The client interface requires the use of both a mouse and keyboard.

- The client component of the website shall run on Windows 10 and Windows 11.





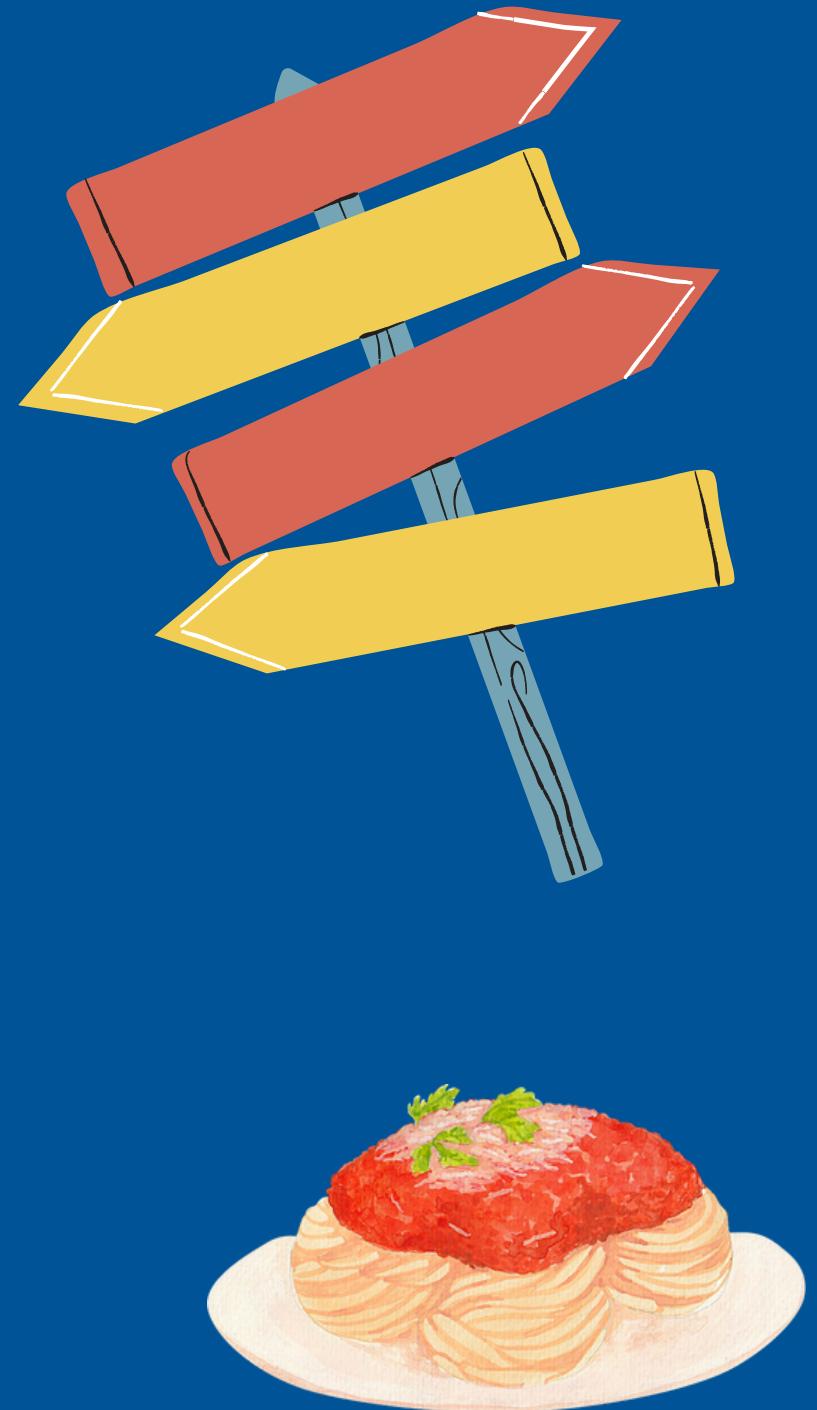
NON-FUNCTIONAL REQUIREMENTS

Performance Requirements

- The system should be capable of supporting 50 concurrent users on the main server.
- The response time of the service should not exceed 10 seconds.
- Any transaction should be fully processed within 1 minute after the user confirms the action.



NON-FUNCTIONAL REQUIREMENTS



DOCUMENTATION REQUIREMENTS

- Permit on online business (following the Digital Business law of 01/2021/NĐ-CP by the Vietnamese Government)

ADDITIONAL REQUIREMENTS

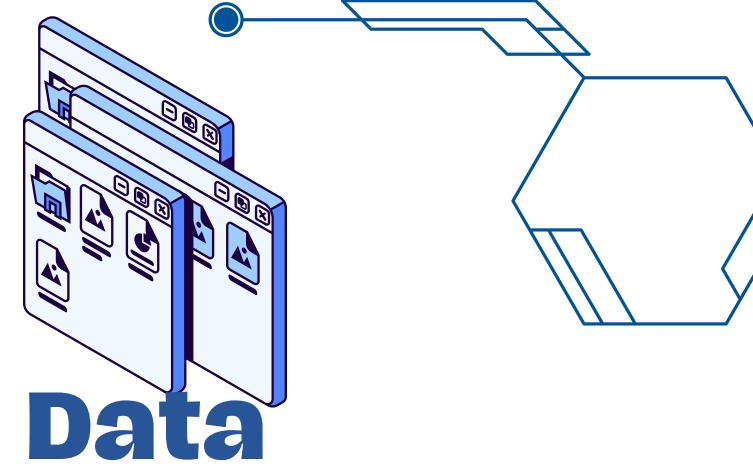
- **Security:** Ensure that all user data is securely encrypted using **AES-256** standards.
- **Availability:** The website should achieve an uptime of at least 99.9%.
- **Usability:** The interface must be both responsive and accessible, meeting the guidelines of **WCAG 2.1**.
- **Scalability:** The platform must be designed to allow horizontal scaling to support an increasing number of users.

ARCHITECTURE AND CONSTRAINTS

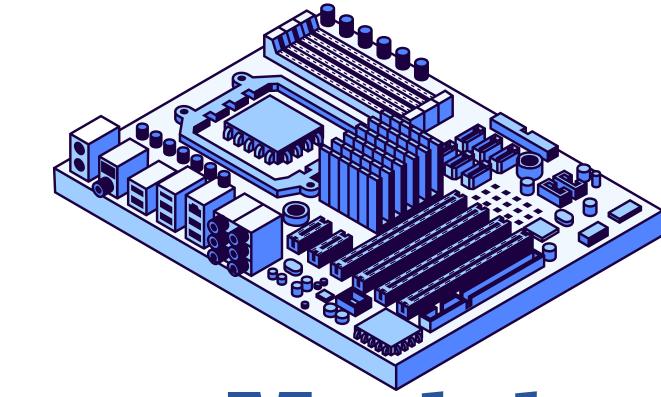


Technology

NextJS, Tailwind,
MongoDB.

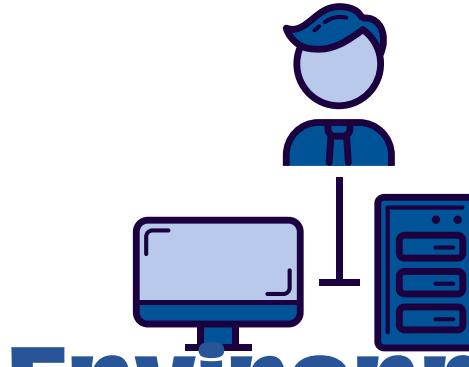


Using the MongoDB database
and MongoDB Full text search.



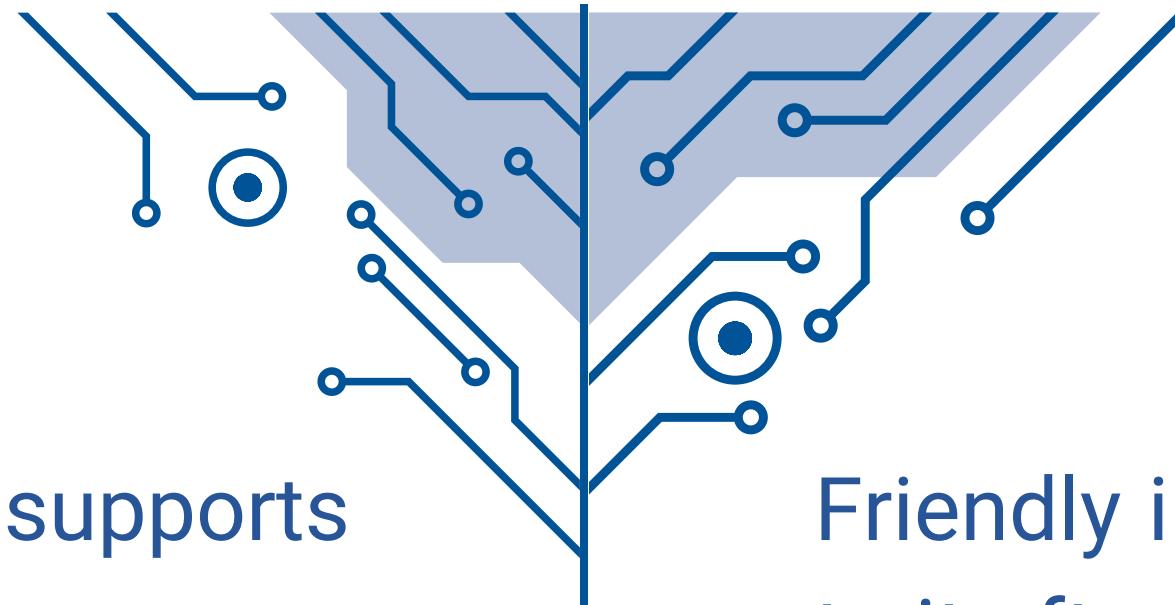
Model

Using the MVC pattern.



Environment

Used for web environment, supports
most browsers.



Easy to use

Friendly interface, users can get used
to it after the first few minutes of use

PACKAGE DIAGRAM

Server

Front end

View

- App.tsx
- Header.tsx
- Footer.tsx
- HomePage.tsx
- AllTripPage.tsx
- TripDetailPage.tsx
- LoginPage.tsx
- SignupPage.tsx
- CreateTripPage.tsx
- ProfilePage.tdx
- EditProfilePage.tsx
- MapElement.tsx

**Client
browser**

Back end

Controller

- AuthController
- TripController
- PlaceController
- CategoryController
- SearchController

Model

- User
- Category
- Trip
- Place

Database

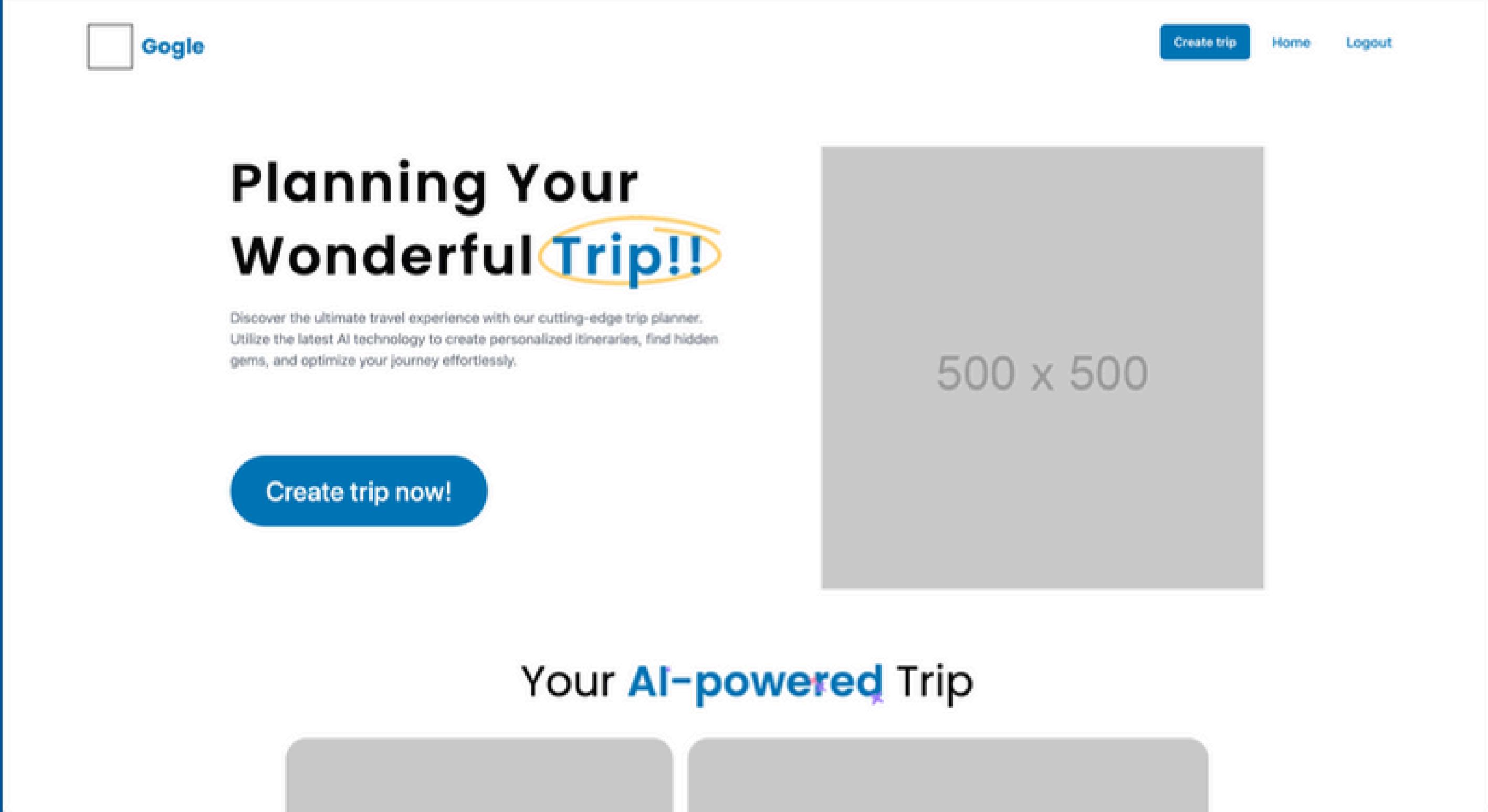
Collection

- Trip
- User
- Places
- Category

Full-text search

DESIGN UI

Figma is used by the Gogle team as the main tool for interface design because of its popularity and ease of use.



The image shows a Figma wireframe of a travel planning application. At the top left is a Google sign-in button. At the top right are three buttons: "Create trip" (blue), "Home" (light blue), and "Logout". The main title "Planning Your Wonderful Trip!!" is centered, with "Trip!!" highlighted by a yellow oval. Below the title is a descriptive paragraph: "Discover the ultimate travel experience with our cutting-edge trip planner. Utilize the latest AI technology to create personalized itineraries, find hidden gems, and optimize your journey effortlessly." A large blue button at the bottom left says "Create trip now!". To the right is a placeholder image with dimensions "500 x 500". At the bottom, the text "Your AI-powered Trip" is displayed above a large, semi-transparent gray button.



Create trip Home Logout

Explore your adventure

What should we call your trip?

Something awesome!



Explore your adventure

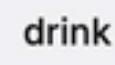
Select date & time

August 26th, 2024

From Total people

My budget: Economy

Select your favourites activities

 feast  snack  drink

 outdoor  indoor

Explore your adventure

Where's your starting point



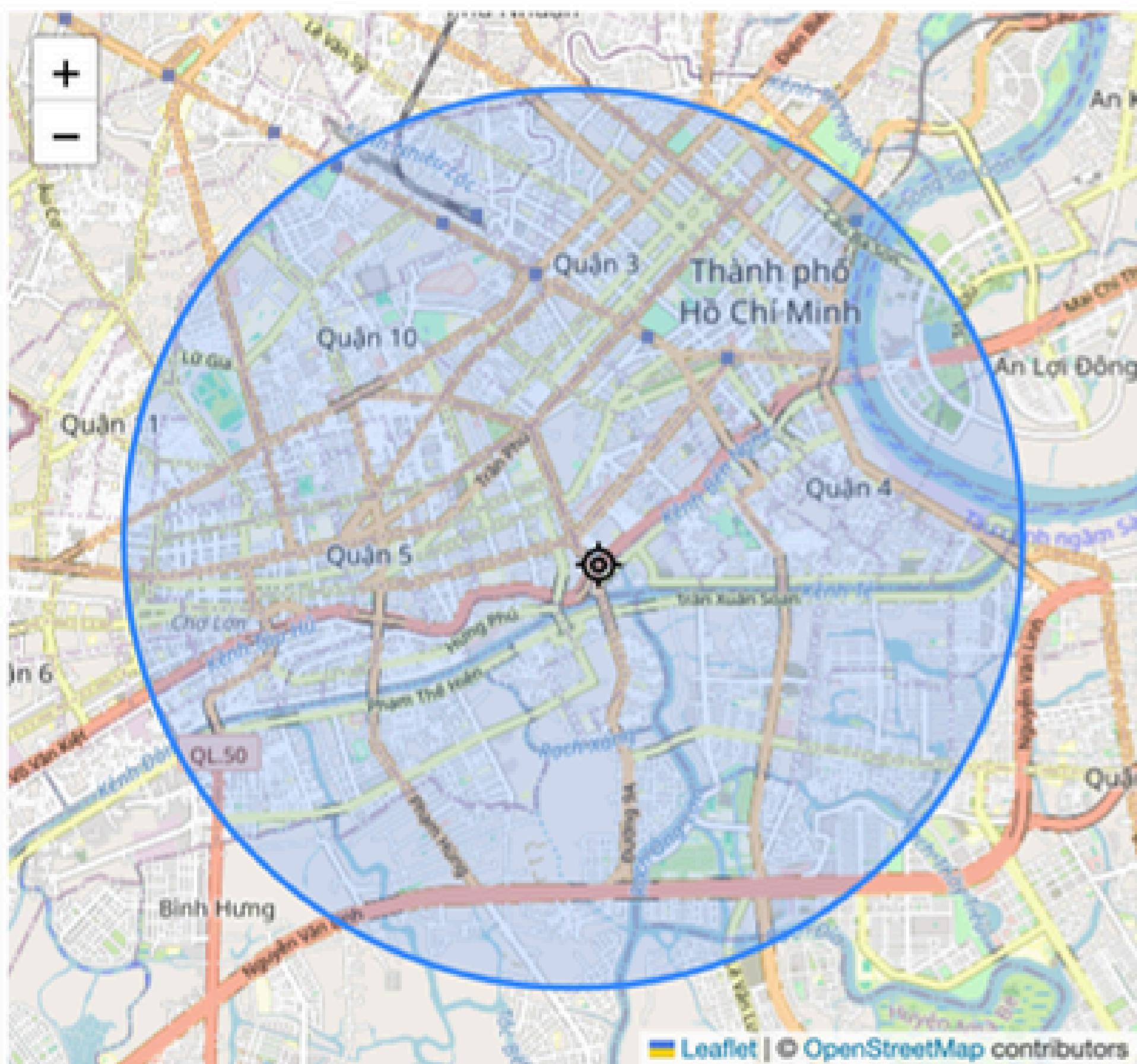
227 Nguyen Van Cu, District 5, Ho Chi Minh

Max length: 4 (km)



Previous

Next



Building your adventure



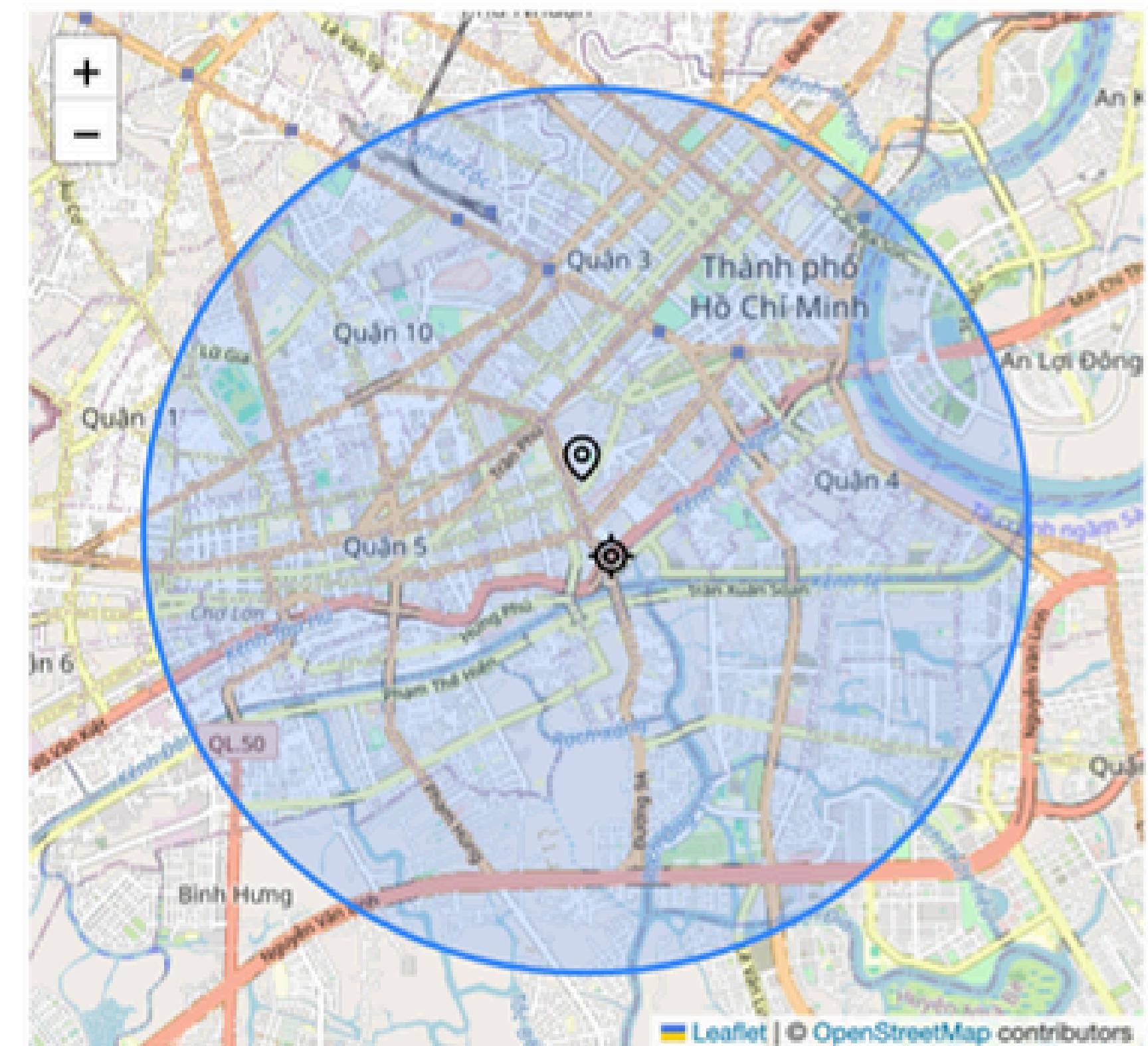
+

 Search for a location

Xôi Chè Bùi Thị Xuân - Bùi Thị Xuân



A Tùng - Bánh Mì Bò Nướng Bơ
Cambodia - Lê Hồng Phong

[Finish](#)



Welcome to Google!

Your trips

test
Created at: 8/11/2024

test
Created at: 8/11/2024

aa
Created at: 8/11/2024

test
Created at: 8/11/2024

aaaa
Created at: 8/11/2024

aawr
Created at: 8/11/2024

Trip: New trip

Edit



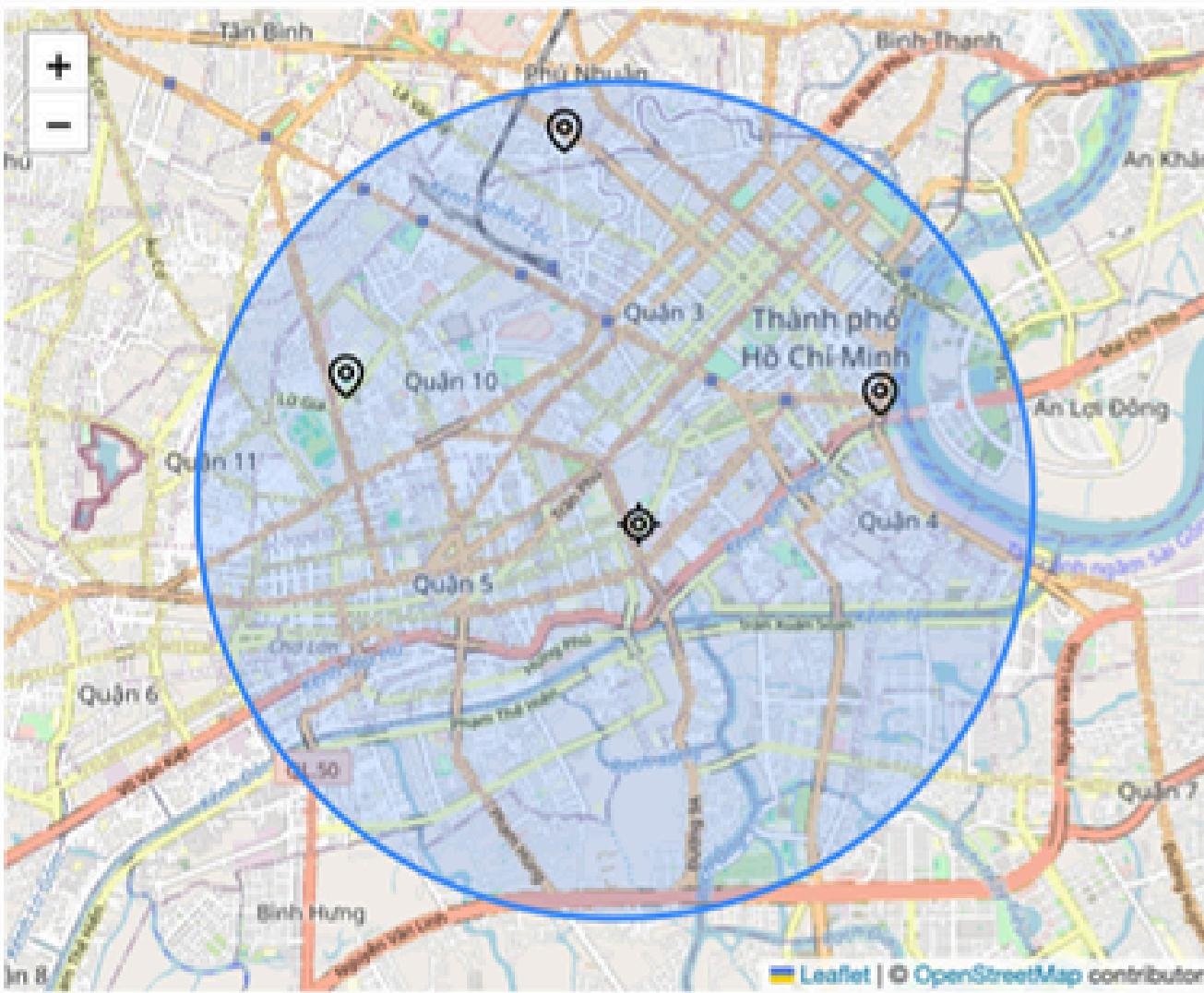
Hoàng Ngân Billiards
270 Lý Thường Kiệt, P. 14
đ30K - đ100K



Sân Khấu Kịch Hồng Vân - Sân Khấu Kịch Phú Nhuận
70 - 72 Nguyễn Văn Trỗi
đ150K - đ250K



Saigon Garden
99 Nguyễn Huệ
đ50K - đ500K



5CLCScan

SOFTWARE TESTING

➤ TESTING METHODS

- Manual: Team members test the main functions and then record it via Google sheet



➤ TESTING ENVIRONMENTS

 Google Chrome



 Microsoft Edge



➤ SUPPORT TOOLS



Google docs



Google sheet



 Firefox



 Opera



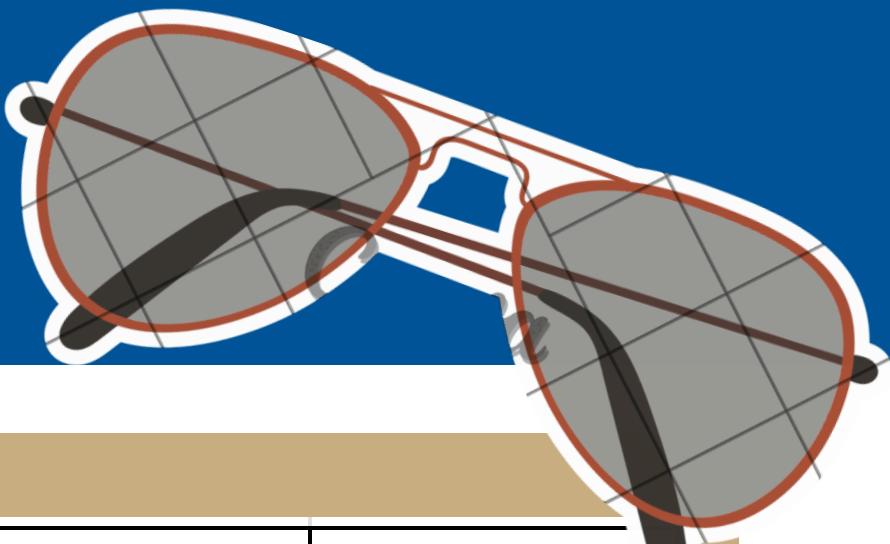
TEST PLAN FEATURES

2	UC03	Edit Saved Trip	This use-case allows a user to edit the details of a previously saved trip.
3	UC04	Delete Saved Trip	This use-case allows a user to delete a previously saved trip.
4	UC06	Generate Trip Path	This use-case allows a user to generate a detailed itinerary for a saved trip, including dates, times, and activities.
5	UC07	User Login	This use-case allows a user to log into the trip planning web application using their credentials.
6	UC09	User Sign Up	This use-case allows a new user to create an account on the trip planning web application.
7	UC19	Manage Trips	This use-case allows a user to publish a trip, making it available for others to view and follow.
8	UC15	Search Place	This use-case allows a user to search for places to visit based on various criteria such as location, type of place, and user ratings.



- Number of features: 9
- Number of test cases: 141
- Each feature from 15-25 test cases
- Each test case is tested manually.

TEST SUMMARY



Feature Tested	Total test case	Test case passed	Test case failed	Bug
9	141	135	6	4
Create Trip with AI Reccomendation	13	13	0	0
Edit Saved Trip	13	13	0	0
Delete Saved Trip	19	18	1	1
Gennerate Trip Path	14	14	0	0
User Login	13	13	0	0
User Sign Up	16	14	2	1
Manage Trips	14	14	0	0
Search Place	16	15	1	1
Verify Account With Email	23	21	2	1



DEMO

THANK YOU

We sincerely appreciate your interest and willingness to support. We hope that our online marketplace and pet care service website will meet your needs and bring joy and comfort to you and your beloved furry companions. Thank you once again, and have a wonderful day!