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**Gogle  
Vision Document**

**Version 2.1**

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## Revision History

Date	Version	Description	Author
08/6/2024	1.0	Initial	Vo Nguyen Phuong Quynh
08/6/2024	1.1	Review and modifying	Cao Huu Khuong Duy
06/7/2024	2.0	Update	Cao Huu Khuong Duy
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## Vision (Small Project)

### 1. Introduction

The purpose of this Vision document is to provide a comprehensive overview of Gogle, outlining its objectives, goals, and high-level requirements. It serves as a guiding document for the development and implementation of Gogle, ensuring alignment with stakeholder needs and project objectives. This document is also associated with the Gogle project and encompasses all aspects related to its development, including requirements gathering, analysis, design, implementation, testing, and deployment. It influences decisions made throughout the project lifecycle, ensuring that Gogle meets the needs of its stakeholders and users.

#### 1.1 References

A comprehensive list of all documents referenced within the Vision document is presented in this subsection. Each reference is meticulously cataloged, including its title, report number (if applicable), date of publication, and the publishing organization. Additionally, sources for obtaining the referenced documents are provided to facilitate accessibility and further exploration, if necessary.

#### 1.2 Overview

This Vision document serves as a comprehensive guide outlining the high-level needs and features of the Gogle. It provides insight into the purpose, scope, definitions, acronyms, abbreviations, and references essential for interpreting the document. The organization of the document is structured to address the key components of the Gogle, including its functionality, user requirements, and strategic objectives. Each section is carefully crafted to offer clarity and coherence, ensuring a thorough understanding of the vision and goals of the Gogle project.

### 2. Positioning

#### 2.1 Problem Statement

The problem of	Difficulty in discovering new and interesting places to hang out for residents
affects	Residents who are familiar with their surroundings and struggle to find fresh destinations to meet friends and family.
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
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.

The problem of	Difficulty in discovering new and interesting places to hang out
affects	Newcomers or traveller want to discover local lifestyle
the impact of which is	Difficulty in navigating and exploring the city, leading to a sense of being overwhelmed and missing out on the local culture and unique experiences
a successful solution would be	Comprehensive trip planning platform that offers tailored recommendations, easy navigation tools, and essential information to help newcomers feel more at ease and make the most of their time in Ho Chi Minh City.
The problem of	Fragmented information and the need to use multiple applications for different trip planning needs (maps, weather

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	updates, reservations, budget planning, etc.)
affects	all users
the impact of which is	inefficiency and frustration due to constantly switching between apps, leading to a disjointed trip planning experience
a successful solution would be	integrated web platform that combines all necessary features (maps, weather updates, reservation systems, budget planners, and more) into one cohesive and user-friendly interface, streamlining the trip planning process and enhancing user convenience

## 2.2 Product Position Statement

For	residents of Ho Chi Minh City
Who	want to discover new and interesting places to meet friends and family
The Gogle platform	is a trip planning website
That	provides personalized recommendations and highlights hidden gems within the city
Unlike	Google Travel, which focuses on well-known tourist spots
Our product	offers tailored suggestions that even locals might not know about, making every outing a new adventure

For	newcomers to Ho Chi Minh City
Who	need an easy and efficient way to navigate and explore the city
The Gogle platform	is a comprehensive trip planning tool
That	integrates maps, weather updates, and local recommendations in one place
Unlike	using multiple separate apps for navigation, weather, and travel tips
Our product	provides a seamless and cohesive experience, simplifying trip planning and enhancing the exploration of the city

For	travel enthusiasts and planners
Who	seek a user-friendly and efficient way to organize their trips within Ho Chi Minh City
The Gogle platform	is a personalized travel planning website
That	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
Our product	delivers a highly customized and integrated planning experience, ensuring users make the most out of their trips

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### 3. Stakeholder and User Descriptions

#### 3.1 Stakeholder Summary

Name	Description	Responsibilities
Project Developer	Project developers are the technical architects behind the Gogle, responsible for coding, designing, testing, and implementing the platform.	<ul style="list-style-type: none"> <li>- Translate requirements into functional software.</li> <li>- Ensure the system is developed according to specifications and standards.</li> <li>- Address technical challenges and implement solutions.</li> <li>- Collaborate with stakeholders to gather feedback and iterate on features.</li> <li>- Testing the application for bugs and usability issues.</li> <li>- Implementing updates and new features based on feedback.</li> </ul>
System Administrator	System administrators are crucial stakeholders responsible for the technical management and maintenance of the Gogle.	<ul style="list-style-type: none"> <li>- Ensuring the platform's stable operation and availability.</li> <li>- Implementing security protocols to protect user data.</li> <li>- Managing system updates, backups, and technical support.</li> <li>- Facilitating integration with other digital tools and systems used by the institution.</li> </ul>
Product Owner	The Product Owner is the visionary and leader for the Gogle project, responsible for defining the vision, priorities, and requirements for the platform.	<ul style="list-style-type: none"> <li>- Defining and communicating the product vision and goals.</li> <li>- Prioritizing the product backlog to ensure that the team is working on features that deliver the most value to users.</li> <li>- Serving as the primary point of contact for stakeholders, gathering input, and making decisions on feature prioritization.</li> <li>- Ensuring the product meets user needs and adheres to market and organizational standards.</li> </ul>
Marketing Team	The marketing team is responsible for promoting Gogle to the target audience. They develop and execute marketing strategies to increase awareness, adoption, and engagement with the platform.	<ul style="list-style-type: none"> <li>- Identify target audience and market trends.</li> <li>- Develop marketing strategies to attract users.</li> <li>- Create promotional materials and campaigns.</li> <li>- Analyze user feedback and behavior to refine marketing strategies.</li> <li>- Collaborate with development team to align product features with marketing messages.</li> </ul>
Local Businesses	Local businesses such as restaurants, hotels, and attractions are stakeholders who benefit from listing their services on the Gogle platform.	<ul style="list-style-type: none"> <li>- Ensure the platform effectively promotes their services.</li> <li>- Provide necessary information and data for integration with the platform.</li> <li>- Collaborate with the platform for marketing and promotional activities.</li> <li>- Ensure data security and privacy of their information on the platform.</li> </ul>
Project Sponsors	These stakeholders can include investors, venture capitalists, or corporate sponsors who provide financial backing and support for	<ul style="list-style-type: none"> <li>- Ensure the project delivers a return on investment.</li> <li>- Monitor project progress and address potential risks.</li> </ul>

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	the Gogle project.	<ul style="list-style-type: none"> <li>- Provide necessary funding and resources.</li> <li>- <u>Approve major project decisions and changes.</u></li> </ul>
Customer Support Team	The customer support team is responsible for providing assistance to users with issues, inquiries, and feedback related to the Gogle platform.	<ul style="list-style-type: none"> <li>- Address user concerns and inquiries promptly and effectively.</li> <li>- Report bugs and suggest improvements to the development team.</li> <li>- Collaborate with other stakeholders to ensure user satisfaction and retention.</li> <li>- Provide training and resources to understand the platform thoroughly.</li> </ul>

### 3.2 User Summary

Name	Description	Responsibilities	Stakeholder
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.	<ul style="list-style-type: none"> <li>- Providing trip details including preferred locations, dates, and activities within the city.</li> <li>- Offering feedback on platform usability and recommendations.</li> <li>- Suggesting features that enhance personalization and social interaction.</li> </ul>	<ul style="list-style-type: none"> <li>- Product owner</li> <li>- Customer Support Team</li> </ul>
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	<ul style="list-style-type: none"> <li>- Inputting current location, duration of stay, and interests for exploring the city.</li> <li>- Offering feedback on platform usability and suggestions for improvement.</li> <li>- Suggesting features for practical information and social networking with locals.</li> </ul>	<ul style="list-style-type: none"> <li>- Product owner</li> <li>- Customer Support Team</li> </ul>
Travel Enthusiasts	Passionate travelers seeking unique experiences, want to discover local lifestyle	<ul style="list-style-type: none"> <li>- Creating detailed trip itineraries with multiple locations, dates, and activities.</li> <li>- Providing feedback on recommendations and evaluating platform features.</li> <li>- Suggesting features catering to specific travel styles and integration with external services.</li> </ul>	<ul style="list-style-type: none"> <li>- Product owner</li> <li>- Customer Support Team</li> </ul>

### 3.3 User Environment

The working environment of the target users for Gogle can vary depending on their roles within educational institutions. Here are some key considerations:

#### ***Number of people involved:***

- For residents, newcomers, and local tourists, tasks may be completed individually or with small groups of friends, couple or family members.
- Travel enthusiasts may involve small groups of fellow travelers or plan trips independently.
- The number of people involved may vary based on the nature of the activity or trip.

#### ***Task cycle duration***

- The task cycle duration varies depending on the complexity of the trip planning process.
- Users may spend several minutes to hours researching destinations, activities, and accommodations.
- Feedback submission and feature suggestion tasks may take a few minutes to complete.

#### ***Environmental constraints:***

- Users may access the platform from various environments, including home, work, or while on-the-go.
- Mobile compatibility is essential as users may access the platform from smartphones or tablets while

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traveling or exploring the city.

- Outdoor exploration may require access to location-based services and real-time navigation tools.

#### ***System platform inuse:***

- Current platforms include web browsers for desktop and mobile devices.
- Future platforms may include dedicated mobile applications for enhanced user experience and accessibility.

#### ***Other Applications in Use:***

- Users may use mapping and navigation apps for route planning and real-time directions.
- Social media platforms may be used for sharing travel experiences and recommendations.
- Integration with booking platforms for accommodations, transportation, and tours may be necessary to streamline the trip planning process.

Overall, Gogle aims to provide a versatile and intuitive platform catering to the diverse needs of residents, newcomers, travel enthusiasts, and local tourists within the dynamic landscape of exploring Ho Chi Minh City. By seamlessly integrating with existing existing systems and support for various platforms, it endeavors to enhance trip planning, discovery, and enjoyment.

### **3.4 Summary of Key Stakeholder or User Needs**

Need	Priority	Concerns	Current Solution	Proposed Solutions
Real-Time Collaboration and Feedback	High	Delayed communication and feedback cycles impede project momentum and decision-making.	Asynchronous communication through emails and Slacks.	Integration of real-time collaboration tools for instant communication and feedback exchange.
Enhanced Project Management Capabilities	High	Inefficient task tracking and progress monitoring hinder project organization and completion.	Reliance on spreadsheets and ad hoc task management methods.	Implementation of project management software with task assignment, progress tracking, and milestone management features.
Personalized Learning and Skill Development	Medium	Limited opportunities for tailored learning experiences and skill development within academic projects.	Generic learning materials and one-size-fits-all project requirements.	Customizable learning paths and project assignments based on individual interests and skill levels.

### **3.5 Alternatives and Competition**

#### ***3.5.1 Building a Homegrown Soltution***

Developing a custom software solution tailored to the specific needs of the educational institution.

- Strength: Customizable to specific needs, potential for cost savings in the long term, complete control over development process.
- Weakness: Requires significant time and resources for development, ongoing maintenance and support challenges, may lack scalability and advanced features.

#### ***3.5.2 Buying a Competitor's Product***

Acquiring a similar collaborative learning platform from a competitor in the market.

- Strength: Access to existing features and user base, potential for quick deployment, established reputation in the market.
- Weakness: Higher upfront costs, potential integration challenges with existing systems, limited flexibility for customization.



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### 3.5.3 Maintaining the Status Quo

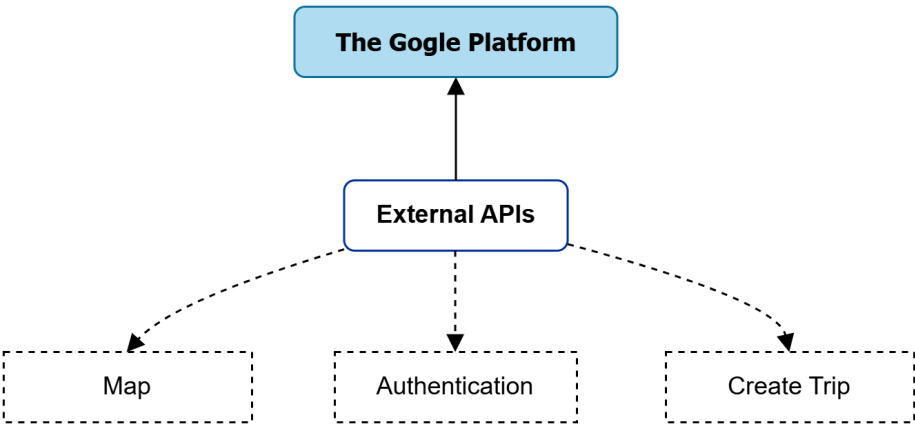
Continuing to rely on current methods and tools for collaboration and project management, such as email, spreadsheets, and manual processes.

- Strength: Familiarity with current processes, minimal disruption to workflow, perceived lower short-term costs.
- Weakness: Limited innovation and improvement, potential for inefficiencies and outdated technology, inability to meet evolving user needs.

## 4. Product Overview

### 4.1 Product Perspective

The Gogle platform is an independent and self-contained system designed to provide users with a comprehensive trip planning and exploration experience within Ho Chi Minh City. While it may integrate with external services such as mapping, authentication, find places,... , Gogle operates as a standalone application, offering unique features and functionalities tailored to the needs of its users.



Gogle interacts with external APIs to enrich its functionality, including mapping services for navigation, authentication services for user security, and location-based services for discovering places of interest. However, it remains an independent platform, focusing solely on providing users with personalized recommendations, collaborative trip planning features, and seamless exploration of Ho Chi Minh City.

### 4.2 Assumptions and Dependencies

#### 4.2.1 Availability of External APIs

- Assumption: External APIs for mapping, authentication, and location-based services will remain available and accessible.
- Dependency: The functionality of the Gogle platform relies on the availability and reliability of these external APIs. Any changes or disruptions to these APIs may impact the platform's features and usability.

#### 4.2.2 Availability of Web Browsers

- Assumption: Users will have access to modern web browsers on their computers.
- Dependency: The Gogle platform is designed for web access, and its usability and functionality are dependent on users having access to compatible web browsers. Any limitations or disruptions in browser availability may impact the platform's accessibility and usage.

#### 4.2.3 Internet Connectivity

- Assumption: Users will have reliable internet connectivity on their computers.
- Dependency: The Gogle platform requires internet connectivity for access and usage. Any interruptions or limitations in internet connectivity may affect users' ability to use the platform effectively.

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#### 4.2.4 Operating System Compatibility

- Assumption: The Gogle platform will be compatible with major operating systems used on computers (e.g., Windows, macOS, Linux).
- Dependency: Ensuring compatibility with various operating systems is essential for reaching a wide user base. Any limitations or issues in compatibility may restrict users' access to the platform based on their operating system.

## 5. Product Features

No	Feature	Actors	Description	Priority
1	Place Recommendation System	All users	Recommend locations based on user preferences, provide real-time recommendations as users make changes.	High
2	Trip management	All users	This module facilitates efficient organization and administration of trips. Users can effortlessly create, modify, and remove trips, Keep track of key details like dates, destinations, and participants.	High
3	Search engine	All users	Empowers users to swiftly locate specific trips, destinations, or relevant information about the places. Features an intuitive interface for entering search queries and promptly delivers accurate results.	High
4	Trip Status Sharing	All users	Enables users to share their trip status with the collaborators. Provide real-time updates about detailed itineraries.	Medium
5	Map visualization	All users	Offers visual	High

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			representations of trip routes, destinations, and points of interest through interactive maps. Includes tracking of traffic information for enhanced trip planning	
6	Place management	Admin	Allows administrators to add, update, and delete places in the database. This includes setting place details such as name, address, category, description, images, and ratings	Medium
7	User Registration and Authentication	All users	Enables users to create an account and log in securely. Admins can manage user accounts, including approving or banning users.	High
8	Reviews and Ratings	All users	Allows users to leave reviews and rate places they have visited. These reviews and ratings help other users make informed decisions.	Medium
9	Vendor Management	Vendor, Admin	Allows vendors to register and manage their own places, including updating details and responding to user reviews.	Medium
10	Favorites and Wishlists	All users	Enables users to save places they are	High

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			interested in to a favorites list or wishlist for easy access later.	
11	Report problem	All users	This feature allows users to report issues. This could include incorrect information, inappropriate content,...	Medium

## 6. Non-Functional Requirements

No	Requirements	Description
1	Performance	The system should be able to handle at least 1000 concurrent users with response times not exceeding 2 seconds for 95% of the requests.
2	Scalability	The system must support scaling up to accommodate growth in the number of users, data volume, and transaction rates without requiring significant redesign.
3	Availability	The system should achieve an uptime of 99.9%, ensuring that it is available 24/7 with minimal downtime.
4	Reliability	The system should consistently perform its intended functions correctly and without errors under specified conditions for a specified period.
5	Usability	The user interface should be intuitive and easy to navigate, allowing new users to learn the system within 15 minutes of use without requiring extensive training.
6	Security	The system must protect user data and transactions through encryption (AES-256), secure authentication methods (e.g., multi-factor authentication), and regular security audits.
7	Maintainability	The system should be designed in a modular fashion to allow easy updates, bug fixes, and enhancements with minimal impact on the overall system.
8	Compatibility	The system should be compatible with major web browsers (Chrome, Firefox, Safari, Edge) and support responsive design for various devices (desktops, tablets, smartphones).

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9	Portability	The system should be easily transferable and deployable across different environments and cloud platforms without requiring significant modifications.
10	Compliance	The system must comply with relevant industry standards and regulations, such as GDPR for data protection and PCI-DSS for payment processing.
11	Backup and Recovery	The system should implement automated daily backups with a recovery point objective (RPO) of 24 hours and a recovery time objective (RTO) of 2 hours in case of data loss.
12	Logging and Monitoring	The system should have comprehensive logging and monitoring capabilities to track user activities, system performance, and errors, providing alerts for unusual or critical conditions.
13	Localization and Internationalization	The system should support multiple languages and regional settings, including date formats, currency symbols, and time zones, allowing users to interact in their preferred language and format.
14	Energy Efficiency	The system should be optimized for energy efficiency, reducing its environmental impact by minimizing server and resource usage wherever possible.
15	Accessibility	The system should adhere to accessibility standards (e.g., WCAG 2.1) to ensure that it is usable by individuals with disabilities, including support for screen readers and keyboard navigation.

END