ONLY GUYS

Only Chat
Vision Document

Version 1.0

Revision History

Date	Version	Description	Author
7/11/2024	1.0	The first draft version	Tôn Thất Minh Quân, Hoàng Trí Luật

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Vision (Small Project)

1. Introduction

This document aims to identify, examine and describe high-level requirements and features for the Only Chat. It concentrates on the capabilities required by the stakeholders and the target users, and the reasons for these needs. The particulars of how the Only Chat meets these needs are elaborated in the use-case and in additive specifications.

2. Positioning

2.1 Problem Statement (Phát biểu bài toán)

The issue lies in gathering information for students, professionals and technical enthusiasts, which will take much of their time to complete any intentions. Furthermore, due to the possibility of lacking guidance may cause unexpected situations and the possibility of wasting time or making mistakes may arise. A prospective way out could be cut down most of their time while collecting information and deciding what needs to be done.

The problem of (vấn đề về)	Gathering information on the Internet smartly
affects (ảnh hưởng đến)	Students, professionals and technical enthusiasts
the impact of which is (ảnh hưởng là)	gathering information for students, professionals and technical enthusiasts, which will take much of their time to complete any intentions. Lacking guidance may cause unexpected situations and the possibility of wasting time or making mistakes may arise
a successful solution would be (giải pháp thành công sẽ là)	cut down most of their time while collecting information and deciding what needs to be done.

2.2 Product Position Statement (Phát biểu giải pháp)

For students, professionals and technical enthusiasts who seek a resource of trustworthy information as well as a devoted service which includes high accuracy and quick response, our team will bring up a product that can help users save time and effort while still enhancing productivity significantly.

For (sản phẩm cho ai)	For students, professionals and technical enthusiasts who seek a resource of trustworthy information
Who (làm gì)	Gathering information on the Internet smartly
The (product name) (tên sản phẩm)	Only Chat
That (sẽ)	Will bring up a product that can help users save time and effort while still enhancing productivity significantly
Unlike (khác với)	Chat GPT, microsoft copilot, Github Copilot, Gemini

Our product (sản phẩm của chúng tôi)	can guarantee the products are safe and delivered on time so that their quality is ensured.

3. User Descriptions

3.1 User Profiles

1. User 1: Student

Avatar:

User type:Student.

Point of view:

- Learning is one of the most important progress in life.
- Studying with technology support is more efficient than many other ways.

Role/Responsibility/Duty: Student of University of Science, VNU - HCM

Skills:

- Proficient on programing Python, C++, C#.
- Skilled in data analysis and using tools such as KNIME and Tableau.

Experience on computer, profession and performing environment:

- Have been using computers for over 10 years.
- Joined in several programming competitions at university.

Using frequency: Studying all weeks; 3,4 hours per use.

Age: 20.

Sex: Male

Culture: Việt Nam

Hobbies: Programming, studying data science, writing blogs.

Routine: Studying from 7 pm to 10 pm everyday.

Expectation:

- Highly expected on qualitative instructions about studying data science.
- Looking for reliable information.

3.2 User Task and Environment

Task 1: Register an account

Task objective: User can create an account and login to use the system.

Performer: New users.

Performing environment: Users perform on personal devices such as smartphone, desktop, laptop at home or in the workplace.

Performing frequency: Registry is performed once when the user first starts using the system.

Task constraints: The user needs to provide basic information (full name, email, password) and ensure terms of services as well as confidentiality of personal information.

Task 2: Log in to the system

Task objective: Allow users to access their accounts and use the system.

Performer: Users who have registered for an account.

Performing environment: Users perform on personal devices such as smartphone, desktop, laptop at home or in the workplace.

Performing frequency: Daily or whenever the user wants to access the system.

Task constraints: Users need to enter username and password correctly the same ones when doing registry.

Task 3: Start a conversation with AI

Task objective: Allow users to send messages to AI and receive responses from the system.

Performer: Logged-in user.

Performing environment: On a personal computer or phone anywhere.

Performing frequency: Continuously, during each session of using the application.

Task constraints: The system needs to respond quickly, the response content must be understandable and useful.

3.3 Alternatives and Competition

1. **ChatGPT (OpenAI)**

Strengths: Natural language process, capability of providing creative content, multi-language support, API integration for businesses.

Weaknesses: Most features limited for free users.

2. **Copilot (Microsoft AI)**

Strengths: Deep integration with Microsoft 365, boosts productivity for office tasks.

Weaknesses: Limited use outside Microsoft ecosystem, high cost for business plans, not strong in creative content generation.

3. **Gemini (Google AI)**

Strengths: Powerful integration with Google Workspace and Search, and real-time data access, multi-steps ability.

Weaknesses: Dependent on Google ecosystem, potential privacy concerns, and newer to the market compared to established AI tools like ChatGPT.

4. Product Features functional user requirements

Intelligent Question Answering: allows users to get instant information without needing to search manually, enhancing productivity and satisfaction.

Contextual Conversation Handling: The chatbot maintains context across user interactions, enabling users to have a fluid conversation without repeating themselves. This capability ensures a more natural dialogue experience, similar to human interaction.

Multi-Platform Accessibility: Users can access the chatbot on various platforms (e.g., web, mobile, desktop) without functionality loss. This feature ensures the chatbot can support users in various environments and devices, making it highly accessible and convenient.

User Authentication and Secure Access: The chatbot includes user authentication to provide personalized, secure access to services and information.

Session Persistence and Retrieval: Users can save, resume, and revisit previous sessions, allowing them to pick up where they left off. This feature supports continuity, enabling users to interact with the chatbot over time without losing context.

5. Non-Functional Requirements non-functional user requirements

Performance:

Response Time: The chatbot should respond to user queries within 2 seconds under normal load to maintain a smooth user experience.

Throughput: The system should handle multiple simultaneous requests, ideally supporting at least 100 concurrent users without degradation in performance.

Scalability: Use scalable cloud infrastructure to handle peak traffic, with elastic resource allocation for optimal cost management.

Reliability:

Availability: The chatbot should have 24/7 uptime to ensure users can access it at any time.

Fault Tolerance: The chatbot should gracefully handle failures or errors in the API and continue functioning with minimal disruption.

Usability:

Intuitive Interaction: The chatbot should use natural language processing for user-friendly interactions, making it easy for non-technical users to operate.

Portability:

Cross-Platform Compatibility: The chatbot should be deployable across multiple environments (e.g., web, mobile, desktop) with minimal modification.