
Power Rangers

**AI Copilot Application
Vision Document**

Version <2.0>

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

Revision History

Date	Version	Description	Author
07/11/24	<1.0>	First version of Vision document	Phùng Tố Uyên
21/11/24	<2.0>	Revised version of Vision document	Nguyễn Cát Huy

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

Table of Contents

1. Introduction	4
2. Positioning	4
2.1 Problem Statement	4
2.2 Product Position Statement	4
3. Stakeholder and User Descriptions	5
3.1 Stakeholder Summary	5
3.2 User Summary	5
3.3 User Environment	5
3.4 Alternatives and Competition	6
4. Product Features	8
5. Non-Functional Requirement	10

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

Vision (Small Project)

1. Introduction

The purpose of this document is to collect, analyze, and define the primary requirements and features of the AI Copilot. It focuses on the key capabilities needed by stakeholders and end users, along with the reasons these requirements are necessary. The specific details of how AI Copilot will address these needs are provided in the use-case and additional specifications.

The introduction section of this Vision document offers a comprehensive overview, including the purpose, scope, and references relevant to the AI Copilot Vision document.

2. Positioning

2.1 Problem Statement

The problem of	Inefficient AI-driven assistance, limited adaptability to user needs, and lack of seamless integration
affects	B2B, B2C businesses and individual users
the impact of which is	Resulting in decreased productivity, frustrated user experiences, and missed opportunities for personalized solutions
a successful solution would be	<ul style="list-style-type: none"> AI-powered personalized recommendations Intelligent data analysis capabilities that provide insights, predictive trends, and actionable recommendations for better decisions. Smart task prioritization and data analysis features High-performance algorithms with faster response times Intuitive and easy-to-use interface Seamless integration with various third-party tools and platforms to centralize processes and data management. Automated processes for efficiency and time-saving

2.2 Product Position Statement

For	Businesses (B2B), individual customers (B2C) and individual users
Who	Who want efficient, personalized, and seamless assistance
The (product name)	is AIChat PR
That	Provides tailored insights, recommendations, and automated support for better decision-making
Unlike	Gemini, ChatGPT, BingAI, Claude ...
Our product	Offers adaptable, intelligent analysis, integrates easily with other platforms, and saves time through automation

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Instructor	Project mentor guiding the team through the development process	Provides guidance, technical support, and feedback to the development team; ensures alignment with best practices and academic standards
Development Team	Students that involve in building the project	Designing, developing, and testing the application to meet specifications; ensuring the system is scalable, maintainable, and user-friendly
Testers	Students who maintain the system	Make sure that the system works properly and meet the needs of the users (B2B, B2C and individuals)
Project Manager	Team leader	Monitors the project's progress
B2B Business clients	Companies that will use the product in a business context	Provide business requirements for AI Copilot, specify features, and set expectations to ensure the tool meets industry needs.

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
End users	Individuals or companies utilizing AI Copilot	Use the AI Copilot to enhance workflow efficiency, receive intelligent recommendations, and analyze data	Self - represented
B2B Clients	Businesses integrating AI Copilot into their systems	Define business-specific requirements, analyze data insights, and use productivity tools within AI Copilot	Development Team
B2C Clients	Individuals or smaller businesses using AI Copilot	Utilize AI Copilot for personalized assistance, efficient task management, and quick data insights	Development Team
Administrators	Team managing the AI Copilot system	Oversee system standards, manage updates, and ensure user satisfaction by addressing feedback	Self - represented

3.3 User Environment

- **Number of People Involved:** The number of users interacting with AI Copilot can vary significantly depending on its application context. For individual users, the primary use will be solo interactions, while for business contexts, team collaboration may involve multiple users utilizing shared recommendations and insights provided by the system.
- **Task Cycle Duration:** Task durations vary widely depending on the use case:
 - **Individual Users:** Typically shorter, often ranging from a few minutes to an hour, where users leverage AI Copilot for quick insights, task organization, or learning assistance.
 - **B2B and B2C Clients:** Tasks could last from minutes to several hours, as the AI may assist with in-depth analysis, report generation, or long-term project tracking.
 - Given the flexibility of AI Copilot, these cycles can adapt over time, especially as the AI learns and

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

tailors its responses to user habits and preferences.

- **Environmental Constraints:** AI Copilot will function across devices that support an internet browser, allowing users to access the platform in varied environments, from office desktops to mobile devices in transit.
- **System Platforms:** The primary platform is a web-based application accessible via internet browsers. A future iteration may include a mobile application compatible across major platforms (iOS and Android) for more dynamic, on-the-go accessibility.
- Other applications in use in our project are Slack, Jira, Google Drive and Github. AI Copilot may need to integrate with several commonly used applications and platforms, depending on the specific needs of B2B, B2C, and individual users. These could include:
 - **Collaboration Tools:** Integration with platforms like Slack and Google Drive to support team communication, file sharing, and collaborative work on documents and projects.
 - **Project Management Software:** Connecting with tools such as Jira and Trello to assist in task tracking, project planning, and prioritizing work.
- The AI Copilot business model emphasizes the following task and role-based integrations:
 - **Role-Based User Access:** Provides tailored experiences for individual users, business owners, and teams.
 - **Task-Based Optimization:** Assists in task prioritization, real-time collaboration, and data analysis across various roles and industries.
 - **Data Security and Compliance:** Ensures secure access and data handling, aligning with business standards and regulatory requirements across integrated systems.

3.4 Alternatives and Competition

1. Alternatives:

- **Build an In-house Solution:**
 - **Description:** AI Copilot can be developed as a custom in-house solution tailored specifically to the needs of the organization, providing full control over its features, design, and integrations.
 - **Pros:**
 - + Complete control over the system and its features.
 - + Tailored specifically to business needs and requirements.
 - + Enhanced ability to iterate and innovate quickly.
 - **Cons:**
 - + Time-consuming development process.
 - + Requires significant resources, including AI and software development expertise.
 - + Higher initial investment in development, maintenance, and updates.
- **Consider Competitor Products:**
 - **Description:** Organizations can explore existing AI-powered platforms or tools similar to AI Copilot, either by acquiring or partnering with established competitors in the market.
 - **Pros:**
 - + Faster implementation and access to an established customer base.
 - + Existing products may have tested features and functionality.
 - + Lower initial development costs.
 - **Cons:**
 - + High acquisition or licensing costs.
 - + Integration complexities with existing systems.
 - + Less flexibility and control over features, which may not fully align with specific business needs.
- **Maintain the Status Quo:**
 - **Description:** Continue with existing systems or processes without adopting AI Copilot or any other solution, maintaining current workflows and practices.
 - **Pros:**
 - + Low-risk option with no immediate cost or disruption.
 - + Familiarity with current systems and workflows.

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

- **Cons:**
 - + Potential missed opportunities for optimization, efficiency, and productivity gains.
 - + May fall behind competitors in terms of innovation.
 - + Long-term inefficiencies and frustrations for users and stakeholders.
- 2. **Competitors:**
 - **OpenAI GPT (ChatGPT)**
 - **Strengths:**
 - + Advanced Natural Language Processing: GPT excels at understanding and responding with context, making conversations smooth and natural.
 - + Customizability: OpenAI provides APIs allowing developers to integrate GPT into their products and fine-tune the model for specific needs.
 - + Scalability: GPT can handle large-scale usage, supporting multiple users and large data volumes effectively.
 - + Continuous Improvement: OpenAI regularly updates and improves GPT, maintaining a leadership position in the AI field.
 - **Weaknesses:**
 - + High Costs: Using GPT via API can be expensive for large-scale operations or applications requiring high computational resources.
 - + Data Privacy Concerns: Sending data to OpenAI can raise concerns about privacy and data security for users.
 - + Limited Context Retention: GPT may struggle to maintain context in longer or complex conversations, potentially leading to inconsistent responses.
 - **Bing AI (Microsoft's Copilot)**
 - **Strengths:**
 - + Integration with Microsoft Ecosystem: Bing AI is deeply integrated with Microsoft tools like Office 365, Outlook, and Teams, enhancing collaboration and productivity.
 - + Powerful Search Capabilities: Leveraging Microsoft's search tools, Bing AI provides quick and accurate information retrieval.
 - + Azure Integration: With strong ties to Azure, businesses can easily scale and deploy AI across their operations.
 - **Weaknesses:**
 - + Limited Customization for End Users: While powerful, Bing AI may not offer the same level of customization for individual users or complex use cases compared to other AI platforms.
 - + Enterprise-Focused: It is more tailored for large businesses, which might not suit smaller businesses or personal use cases.
 - + User Experience: Some users may find the interface and usability less intuitive than other AI tools like GPT or newer platforms.
 - **Claude AI**
 - **Strengths:**
 - + Safety and Ethical Focus: Claude AI is designed with a strong emphasis on safety, minimizing the risk of misinformation, bias, and harmful content.
 - + Transparency and Explainability: Anthropic emphasizes transparency in AI operations, which builds trust with users and stakeholders.
 - + User-Friendly: Claude AI is designed to be easy to use and understand, making it accessible for a broader audience.
 - **Weaknesses:**
 - + Limited Deployment: Claude AI is not as widely available as GPT or Bing AI, limiting its integration and deployment options.
 - + Newer Player: As a newer entrant to the AI space, Claude AI lacks the maturity and large user community that established platforms have.
 - **Google Bard**
 - **Strengths:**

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

- + Integration with Google Services: Bard integrates seamlessly with Google's suite of services like Google Search, Gmail, and Google Calendar, enhancing productivity.
- + Search Accuracy: Powered by Google's search engine, Bard provides highly accurate and reliable information retrieval.
- + Multilingual Support: Bard supports multiple languages, making it a global tool.
- **Weaknesses:**
 - + Still in Development: Bard is still evolving and may not be as refined or feature-complete as GPT or Bing AI.
 - + Less Flexibility: It may not offer the level of customization and flexibility that users expect for specialized use cases.

4. Product Features

Actor(s)	No.	Feature	Description	Priority
B2C Clients, B2B Clients	1	Sign up	Allow clients to create a new account by providing required information.	High
	2	Sign In	Allow clients to log into their account using credentials.	High
	3	Sign Out	Allow clients to securely log out from their account.	High
	4	Upgrade Plan	Enable clients to upgrade their subscription plan for additional features.	Medium
	5	Change Personal Information	Allow clients to update their personal details in their profile.	Medium
	6	Create AI Bot	Allow clients to create a new AI Bot with customizable settings.	High
	7	Search AI Bot	Enable clients to search through their AI Bots.	Medium
	8	Update AI Bot	Allow clients to modify the settings and configurations of their AI Bot.	High
	9	Delete AI Bot	Allow clients to delete their AI Bot from the system.	Medium
	10	Preview AI Bot	Enable clients to preview how their AI Bot will interact.	Medium
	11	Communicate with AI Bot via Chat Widget	Allow clients to interact with their AI Bot through a chat interface.	High
	12	Add Knowledge Data to AI Bot	Allow clients to add knowledge data to their AI Bot's database.	High
	13	Delete Knowledge Data from AI Bot	Allow clients to remove knowledge data from their AI Bot.	Medium
	14	Search Knowledge Dataset	Allow clients to search through knowledge datasets for managing AI Bot data.	Medium
	15	Update Token Count to Unlimited	Allow clients to update their token count to unlimited, possibly via purchase or promotion.	Medium
	16	Upload Image for Chat	Allow clients to upload images in the chat	Medium

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

			with AI Bot.	
	17	Capture Image	Enable clients to capture images directly in the application.	Low
	18	Chat with Image	Allow clients to send images in the chat with AI Bot.	Medium
	19	Take Photo	Allow clients to take a photo using their device camera within the app.	Low
	20	Update Prompt for AI Bot	Allow clients to update the prompt or initial instructions for the AI Bot.	High
	21	Search Public Prompt	Allow clients to search for public prompts available in the library.	Medium
	22	Create New Private Prompt	Allow clients to create their own private prompts.	High
	23	Update Private Prompt	Allow clients to modify their private prompts.	High
	24	Use Prompt in Library	Allow clients to select and use prompts from the library.	Medium
	25	Filter Prompt by Category	Allow clients to filter prompts based on categories.	Low
	26	Add Prompt to Favourite	Allow clients to add prompts to their favourites list.	Low
	27	View Favourite List	Allow clients to view their list of favourite prompts.	Low
	28	Search Private Prompt	Allow clients to search through their private prompts.	Medium
	29	Delete Private Prompt	Allow clients to delete their private prompts.	Medium
	30	Load Data from File	Allow clients to load data into AI Bot from a local file.	Medium
	31	Load Data from URL	Allow clients to load data into AI Bot from a specified URL.	Medium
	32	Load Data from Google Drive	Allow clients to load data into AI Bot from Google Drive.	Medium
	33	Load Data from Slack	Allow clients to load data into AI Bot from Slack.	Medium
	34	Load Data from Confluence	Allow clients to load data into AI Bot from Confluence.	Medium
B2B Clients	35	Search Employee	Allow B2B clients to search for employee accounts within their organization. This feature facilitates efficient employee management by quickly locating specific employee profiles.	Medium
	36	Usage Statistic	Allow B2B clients to view usage statistics.	Medium
	37	Add Employee	Allow B2B clients to add new employee accounts.	Medium
	38	Remove Employee	Allow B2B clients to remove employee accounts.	Medium

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

Admin	39	Add Advertisement	Allow admin to add advertisements to the platform.	Low
	40	View Crash/Error Report	Allow admin to view system crash and error reports.	High
	41	Enable Existing AI Chatbot	Allow admin to enable AI Chatbots that are disabled.	Medium
	42	Disable Existing AI Chatbot	Allow admin to disable AI Chatbots.	Medium
	43	Edit Q&A	Allow admin to edit question and answer pairs in the AI Bot's knowledge base.	High

5. Non-Functional Requirement

Type	Description	Priority	Benefit	Effort	Risk
Standards and Platform Requirements	Operating Systems: Support for major operating systems. Browsers: Latest stable versions of popular web browsers. Mobile Platforms: Compatibility with iOS and Android.	Low	Increased accessibility	Low	Low (most devices support modern browsers)
Performance Requirements	Response Time: Load operations within 2 seconds for most users. Concurrent Users: Support at least 200 concurrent users during peak hours. Data Retrieval: Execute queries within 500 milliseconds. Error Handling: Provide user-friendly error messages.	High	Improved user experience and increased engagement	High (performance tuning may require upgrades)	Potential for slow performance

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

Robustness and Fault Tolerance	Fault Tolerance: Implement automatic failover and backup. Error Recovery: Recover gracefully from errors and provide clear instructions. Data Backup: Regular user data backups to prevent loss.	High	Enhanced service reliability and data integrity	High (requires backup systems)	Risk of data loss
Usability	Accessibility: Offer a night mode to reduce screen brightness, making it more comfortable for users working at night or in low-light environments. Provide a high-contrast interface option for users with low vision or those needing a more visually accessible display. Mobile Responsiveness: Adapt to various screen sizes. Ease of Use: Ensure each operation is within 5 steps.	Medium	Improved user experience	Medium (design efforts required)	Risk of poor user experience
Environmental Requirements	Minimize resource usage, e.g., limit RAM usage to under 1GB.	Low	Reduced operational costs	Medium	Minimal risk as most devices meet hardware needs

AI Copilot Application	Version: <1.0>
Vision (Small Project)	Date: 07/11/24
PA1	

External Design Constraints and Dependencies	Third-party APIs: Integration for payments	Medium	Reliable and flexible service	Medium	Integration or dependency failures
Documentation Requirements	User Manuals: Provide FAQs and user guides. Labeling and Packaging: Ensure legal and branding compliance for labels and packaging.	Medium	Supports user onboarding and legal compliance	Low	Insufficient user support or legal issues
Scalability	Ensure the system can scale as the user base and data load increase.	High	System remains effective as it grows	High	Overload or instability if not well-prepared
Customization and Personalization	Allow users to customize their AI Copilot experience based on preferences.	Medium	Increase user satisfaction and engagement	Medium	Complexity increase, performance impact