COMPANY NAME

TechBarter

Project Vision Document

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Revision History

Revision	Date	Author	Reviewed By	Summary of Changes
0.1	09/25/2024	Ashish Rajan	Nishita	Preliminary version of
		Sherry	Sachdev	TechBarter Web
		-		Application
0.2	10/02/2024	Nishita Sachdev	Team	Final Version of Project
			Members	Vision.

Document Approval List

Version	Approved By	Signature	Date

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Project Vision Page 2 of 11

Table of Contents

1	Intro	oduction	4
	1.1	Purpose	4
	1.2	Scope	4
	1.2.	1 In Scope	4
	1.2.	2 Out of Scope Error! Bookmark not defin	ed.
	1.3	Definitions, Acronyms, and Abbreviations	4
	1.4	References	4
2	Posi	itioning	5
	2.1	Business Opportunity	5
	2.2	Problem Statement	5
	2.3	Product Position Statement	6
	2.4	SWOT Analysis	6
3	Stak	seholder and User Descriptions	7
	3.1	Stakeholder Summary	7
	3.2	User Summary	8
4	Stak	ceholder Requirements	<u>c</u>
5	Syst	em Features	<u>c</u>
6	Assu	umptions	10
_	_		

1 Introduction

1.1 Purpose

The purpose of this document is to gather, analyze, and articulate the fundamental needs and features of the "Tech Barter" project. It emphasizes the essential functionalities required by stakeholders, including technology providers, end-users, and trading partners, while explaining the significance of these needs in enhancing the tech trading landscape. Detailed descriptions of how the project will fulfill these requirements will be provided through use-case scenarios and supplementary specifications.

1.2 Scope

This Vision Document applies to the **TechBarter** project, which will be developed by the OnesNZeroes Development team. The team will create a comprehensive marketplace platform designed to facilitate the buying and selling of electronics among users. The platform will enable sellers to access detailed visual reports on their sales data and introduce a recycling feature for unused technology. Additionally, it will include a community space for discussions and support, fostering interaction among users.

The system will leverage data analytics to enhance efficiency and user experience, making it easier for users to navigate and engage with the marketplace. Access to the platform will be available through web interfaces, allowing users to manage their transactions seamlessly..

1.3 Definitions, Acronyms, and Abbreviations

Term	Explanation		
Tech Trade	The buying and selling of electronic gadgets and devices.		
Marketplace	A platform where buyers and sellers conduct transactions.		
Recycling Program	A system aimed at collecting and reprocessing old or unused electronic devices, promoting sustainability by reducing waste.		
Visual Sales Reports	Graphical displays of sales data used to analyze performance and assist in decision-making.		
Community Hub	A platform or space where users can communicate, share knowledge, and collaborate on activities related to electronics and tech trade.		

1.4 References

T.B.D

Project Vision Page 4 of 11

Reference File Name	Version	Description

Name	Link

2 Positioning

2.1 Business Opportunity

There is a growing demand for a specialized platform that facilitates tech sales while promoting environmentally conscious practices, as many consumers are left with unused or outdated electronics that contribute to electronic waste. This project aims to develop a dedicated tech marketplace catering to technology enthusiasts, featuring a recycling option to encourage responsible disposal of unused devices, data-driven insights for sellers to optimize their sales strategies, and a community space for discussions and support. By focusing on sustainability and community engagement, this platform will positively impact both the environment and the tech sales landscape.

2.2 Problem Statement

The lack of a dedicated marketplace for tech-related	
products, combined with limited options for responsible	
electronic disposal and recycling.	
Tech consumers, sellers, and environmentally conscious	
users who seek to buy, sell, and responsibly recycle	
electronics.	
A fragmented user experience with inefficiencies in the	
buying and selling process, minimal community engagement,	
and an absence of easy, eco-friendly recycling options for	
electronics.	

Project Vision Page **5** of **11**

	To provide a seamless tech marketplace with user-focused	
a successful solution would	features like visual sales reports, a supportive community	
	hub, and a recycling initiative that encourages sustainable	
be	practices, improving both user satisfaction and market	
	efficiency.	

Table 1 Problem Statement

2.3 Product Position Statement

For	Tech enthusiasts, casual consumers, and environmentally conscious individuals	
Who	Need a reliable, user-friendly platform to buy, sell, and responsibly recycle electronic devices	
The TechBarter	Is a comprehensive online marketplace and community hub	
That	Offers a seamless experience for transactions, provides data-driven insights for sellers, and includes a recycling initiative for eco-friendly tech disposal	
Unlike	Other e-commerce sites that don't prioritize sustainability or community connections	
Our product	Focuses on tech with specialized tools, a vibrant user community, and eco-friendly features to support responsible recycling, Tech Suggestions to non tech savvy person who have little or no Knowledge, Visual Sales Reports for Sellers.	

Table 2 Product Position Statement

2.4 SWOT Analysis

Strengths	Weaknesses
Focused on the tech market with specialized	Currently lacks a large user base,
features.	meaning significant marketing efforts
	will be needed to attract and retain
	users.
Integrates eco-friendly practices such as	Limited brand recognition compared to
recycling.	more established platforms, which could
	slow initial growth.
Opportunities	Threats
Rising demand for affordable technology	Intense competition from well
solutions among consumers.	established e-commerce platforms.
Increasing awareness and commitment to	Potential for market saturation as more
recycling electronics.	players enter the tech marketplace.

Project Vision Page 6 of 11

3 Stakeholder and User Descriptions

The target market segment for the TechBarter app includes middle-income individuals and families residing in medium to large cities. These users range from tech-savvy consumers who regularly utilize smartphones for personal and business interactions to non-tech-savvy individuals seeking guidance in purchasing, selling, and recycling electronics. Many of these users are homeowners who are interested in efficient and eco-friendly tech solutions. As newcomers to the community marketplace landscape, we aim to establish partnerships with reputable electronics manufacturers and recycling organizations to enhance our platform's credibility. Additionally, TechBarter will provide tailored suggestions and support to help users, regardless of their tech expertise, navigate their purchasing decisions. This collaborative approach will not only facilitate our market entry but also foster a vibrant community space where users can engage, share knowledge, and promote sustainable practices in tech transactions, ultimately aligning with our mission to create a more efficient and eco-friendlier marketplace.

3.1 Stakeholder Summary

Stakeholder Name	Represents	Role
Project Sponsor	Company's management	Oversee project direction, provide funding, and ensure alignment with company goals.
Development	Technical expertise	Design and implement the TechBarter platform, focusing on user-friendly features and functionality.
System Analyst	Stakeholders	Works with stakeholders to gather their needs, leads requirements elicitation, and outlines system functionality.
Requirements Specifier	System Analyst	Translates stakeholder requests into clear, actionable requirements for design, including both functional and non-functional aspects.
Technical Reviewer	Development Team	Provides feedback during the review process, focusing on the technical aspects of project artifacts to ensure quality and adherence to standards.
Software Architect	Development Team	Leads the system development by defining the software architecture, making key technical decisions, and ensuring maintainability.

Project Vision Page **7** of **11**

Stakeholder Name	Represents	Role
Project Manager	Company's management	Plans, manages, and allocates resources, coordinates interactions with customers and users, and keeps the project team focused on goals.
Market Analyst	Product positioning	Assesses market demand for the platform's features and new services, ensuring successful positioning of TechBarter in the marketplace.
Marketing team	Promotion of the platform	Drive user engagement, market the platform, and highlight eco-friendly practices to attract users.
End Users	Sellers, buyers, community members	Provide feedback on the platform, use it for buying, selling, and recycling electronics, and engage with the community.

Table 3 Stakeholder Summary

3.2 User Summary

User Name	Description	Responsibilities	Stakeholder
Swappers	Individuals or businesses swapping tech items on the platform.	List items for swap, manage inventory, respond to inquiries, and track swap performance	Self
Seekers	Individuals seeking Tech Items on the Platform.	Browse the marketplace, compare products, make swap requests, and leave reviews and feedback	Self
Community Members	Users engaging in platform discussions and sharing tech knowledge.	Participate in forums, share tech knowledge, support eco-friendly initiatives, and offer swapping advice	Self
Moderators	Platform managers overseeing site operations and ensuring compliance with policies.	Oversee site operations, manage user accounts, ensure compliance with policies, and handle technical issues	Self

Project Vision Page 8 of 11

User Name	Description	Responsibilities	Stakeholder
Admin	Platform	Manage moderators,	Self
	administrators	oversee platform	
	responsible for overall	performance, and	
	platform	make strategic	
	management.	decisions	

Table 4 User Summary

4 Stakeholder Requirements

ID	Requirement	Stakeholder
1	Seamless user experience, compare prices, read reviews, receive	Buyers
	notifications, access product condition report	
2	Easily list Products, access sales reports, real-time data on trends,	Sellers
	participate in community discussions.	
3	Accessible recycling options, recycle old tech items, view recycling impact	All Users
	report, receive reminders	
4	Participate in discussions, support eco-friendly initiatives, receive	Community
	community notifications	Members
5	Monitor user activities, manage user community, generate platform usage	Administrators
	reports	

Table 5 Stakeholder Requirements

5 System Features

ID	Feature	Description	Stakeholder Requirement ID
1	Marketplace for Electronics	A platform for buying and selling electronic items, enabling seamless transactions and	1
		better access to affordable technology.	
2	Visual Sales Analytics for Sellers	Provides sellers with detailed visual reports and insights into their sales performance, helping them optimize their business	2
3	Tech Recycling Program Integration	strategies. Facilitates the recycling of old or unused electronics, promoting environmentally sustainable practices among users.	3
4	Community Hub for Discussions	A dedicated space for users to engage in discussions, share knowledge, and get advice about electronics and accessories.	4
5	Product Condition Report	Provides detailed information about the condition of used electronics, helping nontech savvy buyers make informed purchasing decisions.	N/A

Project Vision Page **9** of **11**

ID	Feature	Description	Stakeholder Requirement ID
6	Price Comparison Tool	Allows users to compare prices of similar products from different sellers, making it easier for non-tech savvy buyers to find the best deals.	N/A
7	User Reviews and Ratings	Enables users to leave reviews and ratings for products and sellers, helping non-tech savvy buyers make informed purchasing decisions.	N/A
8	Tech Support Resources	Offers resources and guides to help non- tech savvy users understand and use their electronic devices, reducing the need for external support.	N/A
9	Personalized Recommendations	Provides users with personalized product recommendations based on their interests and preferences, making it easier for non-tech savvy buyers to find relevant products	N/A

Table 6 System Features

6 Assumptions

- **Reliable Internet Access:** Users will have a dependable internet connection to access the TechBarter platform without interruptions, ensuring a seamless buying and selling experience.
- Basic Tech Knowledge: Users will possess a fundamental understanding of how to navigate online marketplaces and community discussion forums, enabling them to utilize the platform effectively.
- Smooth Integration of Third-party Services: External services, such as payment processing systems, shipping solutions, and analytics tools, will integrate effectively and efficiently to enhance user experience.
- Compliance with Laws and Regulations: The platform's recycling feature will operate in accordance with all relevant legal and environmental regulations regarding electronic waste disposal, promoting responsible practices.
- User Engagement: Users will actively participate in community discussions, provide constructive feedback, and engage with the platform's features, fostering a collaborative environment.
- **Data Accuracy:** Users will provide accurate and up-to-date information about their products, including detailed descriptions, competitive pricing, and the condition of the items to build trust within the marketplace.

Project Vision Page 10 of 11

- **Platform Adoption:** TechBarter will aim to gain a significant number of users, including both buyers and sellers, to create a vibrant and dynamic marketplace that encourages transactions and community interaction.
- **Continuous Improvement:** The platform will continuously evolve and improve based on user feedback, advancements in technology, and changing market trends, ensuring it remains relevant and user-friendly.

7 Constraints

- **Budget Limitations:** The project operates under a restricted budget, which may limit the scope of development and reduce the resources available for implementation, marketing, and user support.
- **Time Constraints:** A fixed timeline for the project restricts the time available for thorough testing, quality assurance, and iterative improvements before the platform's official launch.
- **Regulatory Compliance:** The TechBarter platform must adhere to various legal and regulatory requirements related to e-commerce and electronic waste disposal, complicating the development process and potentially delaying project timelines.
- **Dependency on Third-party Services:** The reliance on external services, such as payment processors and analytics tools, poses a risk; any disruptions or issues with these services could negatively impact the platform's functionality and user experience.
- **Technical Limitations:** The platform's technical capabilities may be limited by the chosen technology stack, infrastructure, and resources, potentially affecting performance and feature implementation.
- **User Adoption:** The success of the platform relies heavily on user adoption and engagement, which can be influenced by factors such as effective marketing, user experience, and competition within the marketplace.
- Security and Data Protection: The platform must prioritize the security and protection of user data, a complex and resource-intensive task that requires ongoing attention to maintain user trust and compliance with regulations.
- **Scalability:** The platform must be designed to scale with user growth effectively. This can be challenging, especially if the platform experiences rapid growth, requiring additional resources and infrastructure adjustments.

Project Vision Page **11** of **11**