
Newbies

**NBTech
Vision Document**

Version 1.0

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Revision History

Date	Version	Description	Author
09-06-2025	1.0	Fulfill some information about vision document	Trần Minh Quang Đỗ Đăng Nhật Tiến

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

Table of Contents

- 1. Introduction..... 4**
 - 1.1 Purpose..... 4
 - 1.2 Scope..... 4
 - 1.3 References..... 4
- 2. Positioning..... 4**
 - 2.1 Business opportunities..... 4
 - 2.2 Problem Statement..... 4
 - 2.3 Product Position Statement..... 4
- 3. Stakeholder and User Descriptions..... 5**
 - 3.1 Stakeholder Summary..... 5
 - 3.2 User Summary..... 6
 - 3.3 User Environment..... 6
 - 3.4 Summary of Key Stakeholder or User Needs..... 6
 - 3.5 Alternatives and Competition..... 7
- 4. Product Overview..... 7**
 - 4.1 Product Perspective..... 7
 - 4.2 Assumptions and Dependencies..... 8
- 5. Product Features..... 8**
- 6. Non-Functional Requirements..... 13**
- 7. Precedence..... 14**

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

Vision (Small Project)

1. Introduction

1.1 Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the NBTech. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the NBTech fulfills these needs are detailed in the use-case and supplementary specifications.

1.2 Scope

The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose and references of this **Vision** document.

This site of the general manager is to simulate a product of electronics business products such as laptops, computer mice, keyboards for students with costs suitable for their pocket money

1.3 References

Applicable references are:

- Youtube video demo PA1
- Slide PowerPoint Introduction to Software Engineer

2. Positioning

2.1 Business opportunities

This website is necessary because it helps students find a suitable device to serve their learning needs as well as entertainment.

The system is based on the interface of commercial sites available on the Internet, thereby creating a unique interface. At the same time, gradually developing more features in the future because the current version is the first version.

2.2 Problem Statement

The problem of	HCMUS students need to search for electronic equipment to serve the needs of learning, especially laptops, computer mice, keyboards, ...
Affects	HCMUS students
The impact of which is	Most of the large websites on the market exist devices that are not suitable for students' pockets as well as their families.
A successful solution would be	Building a website is almost similar to the pages on the market, but the cost to spend here will be a bit lower and more suitable in terms of students' funding but still ensure quality products like many other websites are trading the same product of the same type

2.3 Product Position Statement

For	HCMUS students
Who	Students who need laptops to serve learning, notes as well as entertainment or mouse and keyboards to facilitate the operation of the device already available in their working corner.
The (product name)	NBTech - an ecommerce website selling electronic products

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

That	Selling many electronic products for students: Laptops, computer mouses, keyboards,....
Unlike	Other e-commerce websites trading similar products but the cost is not suitable for student budget such as: Gearvn, Cellphones, ...
Our product	Our website offers similar products on the market with more preferential prices.

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Team Developer of project	Students of 23CLC10, HCMUS Group 10	Design, implement, and maintain the core functionality of the e-commerce system. Monitor project progress and ensure timely delivery of milestones Collaborate effectively within the team to maintain project coherence and technical consistency.
Mai Anh Tuấn	Teaching Assistant	Advice support for the group in the project development process
Admin of product	Product management on the site ensures a full display of necessary information about the product for users.	Manage product listings, including adding, updating, or removing products from the system. Ensure all product details (name, price, description, images, availability) are accurate and up to date. Ensure that product categorization and filtering are intuitive and user-friendly. Collaborate with the development team to improve product-related features and data display on the website.
Admin of account and system	Manage accounts on the system to ensure stability in interacting with personal information of the account as well as manipulating with the website.	Ensure the confidentiality, integrity, and availability of users' personal information. Handle authentication and authorization mechanisms to ensure correct user-role interactions. Support users in recovering access (e.g password reset, account verification).
End - user	End users who browse, purchase, and interact with products on the website.	Ensure to interact with the website with full utilities of a user and have the best experience in the process of operating with the website

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Buyer	There are basic operations such as product viewing, buying products, product evaluation, ...	<p>Browse and search for products using the website's interface.</p> <p>View detailed product information including price, description, and reviews.</p> <p>Make purchases and complete the checkout process securely.</p> <p>Evaluate and rate purchased products to provide feedback and help improve service quality.</p> <p>Manage their own account information, including personal details, purchase history, and preferences.</p>	End-user

3.3 User Environment

- NBTech website will be used by people especially students in HCMUS who need laptops for learning needs as well as personal entertainment. This website also provides some input devices such as: mouse, keyboards for them.
- NBTech website can be used only on Desktop computers:
 - Laptops
 - PCs
- User can interact with website by:
 - Search products from searching bar
 - View details about a product by clicking on
 - Order products remotely with only personal computers
- Future platform: Currently, the website only exists the payment method when receiving the goods but in the future will add more payment methods to facilitate students to interact remotely. At the same time we can develop for students using a mobiles' website such as phones, tablets, ...

3.4 Summary of Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Easy to use for user	High	Ability for users with little to no previous personal computer usage to navigate and use menu easily	None	Provide large menu icons with intuitive categories for communication

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

Manage products on website	High	Admin has not managed their products posted on the website as well as the revenue of that product has not yet been determined	None	Make a website for admin managing products that has a list of products they have posted on the website and also with each product the will show their own revenue.
Manage account on website	High	The admin has not yet managed the list of users who have registered as a member of the site, which leads to confusion between members and guests.	None	Make a website present a list of users that registered to the website then navigate the user to the interface for registered members instead of the interface for guests
Chatting for more information	Low	Users want to provide more information about the product from the store team through the message but there is no interactive factor	None	Create a chat box for the store management side to text customers in the meeting, they need support

3.5 Alternatives and Competition

Competitors	<p>GearVN: A well-known retailer providing laptops and electronic devices, but the prices are generally high and not suitable for most students.</p> <p>CellphoneS: Offers good after-sale service, but product prices are often out of range for student budgets.</p> <p>Lazada, Shopee: Popular e-commerce platforms, but the quality of products is inconsistent, and inexperienced users may find it difficult to choose the right products.</p>	
Alternatives	Direct buying from Facebook	Products can be cheaper, but quality is not guaranteed, and there's no reliable warranty or return policy.

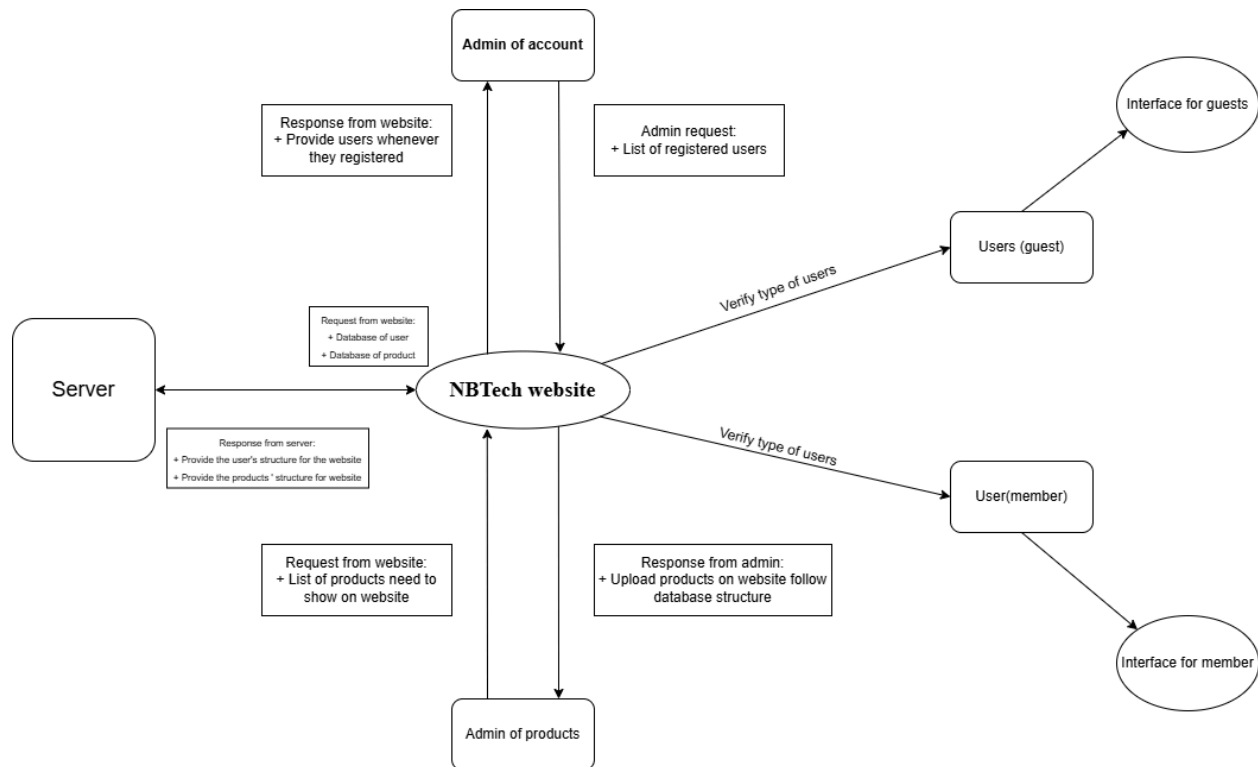
4. Product Overview

4.1 Product Perspective

NBTech website is an e-commerce website created for the purpose of competing with the foundations that exist before on the basis of supplying electronic equipment with the level of remuneration in accordance with the cost of a special student, HCMUS students.

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

The site is created to serve HCMUS students in providing electronic devices such as laptops, mice and keyboards for the purpose of studying and entertainment.



4.2 Assumptions and Dependencies

- NBTech website will primarily be accessed via desktop devices, including laptops and personal computers, which provide the best compatibility and user experience at this stage of development.
- If there are any significant changes, this Vision document must be revised to reflect the new development direction and user expectations.
- The product is expected to be used for the next 1 to 2 years, and to be maintained and updated regularly to meet evolving user needs and technological changes.
- The product relies on the availability of up-to-date product information and a functional user management system. If these external data sources or admin processes change, the system architecture and scope must be revised accordingly.
- In the future, NBTech website is going to be used on mobile platforms that help users feel convenient in interacting with the website.

5. Product Features

Feature	Type of user	Description	Priority
Register	User	Users provide basic information such as name, email address, and password to create a new account. The system	High

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

		validates the inputs and notifies users of any issues (e.g email already in use)	
Login	User	Users enter their registered email and password to access personalized features such as placing orders, viewing purchase history, and managing account settings.	High
Logout	User	Allows users to securely exit their account, protecting personal data and preventing unauthorized access, especially when using shared devices.	High
Forgot password	User	Allows users to recover access to their account in case they forget their password. Users enter their registered email address, and the system sends a reset link via email. The reset link is usually valid for a limited time to ensure security. This feature enhances user experience by minimizing access disruptions while maintaining account safety.	High
Details about product	User	Product details often display large images, fully described, price, specifications, user evaluation, and in stock. This feature helps users better understand the product before making a purchase decision.	High
View product list	User	Allows users to view the list of all products being	High

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

		sold on the website. List of basic information displays such as product name, price, image and short description.	
Search products	User	Allows users to search products quickly by entering the related keywords such as product names, types of goods, or brands. The system will return the list of products suitable for keywords, saving time to approve the entire portfolio.	High
Filter products	User	Allows users to narrow the search results or product lists based on criteria such as price, product type, brand, size, color, or evaluation. The filtration helps users quickly find the product that suits personal needs.	High
Add products to cart	User	Allow users to choose and save the product they want to buy in the shopping cart temporarily. Users can add many different products, adjust the quantity or remove the product before payment.	High
Add to wishlist	User	Allows users to save their favorite products to review or buy later. This is a convenient way to mark the products that users are interested in but do not want to order immediately. Wishlist helps improve shopping experience by personalizing and memorizing the interests of each user.	Low

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

Rate and review products	User	Allow users to evaluate the product by giving points (usually from 1 to 5 stars) and write comments after buying or using. These reviews help other customers have a more realistic view of product quality.	Medium
Manage shopping cart	User	Allows users to manage the products they intend to purchase. Users can add products to the shopping cart from the product detail page or product list. They can also update the quantity of each item or remove unwanted items from the cart. This feature helps users review their selected products before proceeding to checkout.	High
View order history	User	Allows users to view a list of their past orders, including details such as order date, items purchased, total amount, order status (e.g processing, shipped, delivered), and tracking information if available. This helps users keep track of their purchases and manage returns or reorders more easily.	High
Payment	User	Enables users to complete their purchases securely. The payment process	High

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

		usually includes selecting a shipping method, entering payment details (such as credit card, e-wallet, or bank transfer), and confirming the order. The system ensures that payment information is encrypted and transactions are processed safely.	
Apply Coupon	User	Allows users to enter discount codes during checkout to receive promotions or price reductions. The system validates the coupon and automatically updates the total amount if the coupon is applicable. This feature enhances customer satisfaction by providing savings and encouraging repeat purchases.	High
View user accounts	System admin	Allows the admin to browse through all registered user accounts, view profile information and purchase history.	High
Manage user accounts	System admin	Enables the admin to modify user details such as name, email and phone number as well as reset passwords or delete accounts when necessary.	High
Add, edit or remove products	Product admin	Allows the admin to create new product listings, update existing product details such as name, description, price, and images, or remove products from the catalog.	High
Manage categories and inventory	Product admin	Enables the admin to organize products into categories, monitor stock levels, and update	High

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

		inventory to ensure product availability.	
Approve or remove product reviews	Product admin	Lets the admin review user-submitted product ratings and comments, approve appropriate reviews, or remove content that violates guidelines.	High
Add, edit coupon, discount	Product admin	Provides tools for the admin to create promotional codes or discounts, set usage conditions, and update or deactivate them as needed.	High
Manage orders	Product admin	Enables the admin to update order statuses (pending, shipped, delivered, canceled).	High
Statistics of revenue	Product admin	Allow admin to calculate one or more products of the products managed	Medium
Best seller products	Product admin	Product classification is based on the number of sold in a certain period	High

6. Non-Functional Requirements

- **Applicable Standards:**
 - The website interface shall be suitable for Windows.
 - The website shall support major web browsers such as Google Chrome, Mozilla Firefox, Microsoft Edge,....
- **System Requirements:**
 - The client component of the system shall operate on any desktop or laptop computer running Windows-based operating systems.
 - The system shall not require more than 512MB RAM for the client browser and shall operate properly over a standard internet connection.
 - The client interface shall be optimized for use on wired or wireless internet connections
- **Performance Requirements:**
 - The system shall support up to 100 concurrent users accessing product and account features simultaneously without significant delay.
 - Response time for key operations (e.g product search, add to cart, checkout) shall not exceed 30 seconds under standard network conditions.
 - The system shall be designed to be scalable, allowing expansion to support more users and data volume in future development phases.

NBTech	Version: 1.0
Vision Document	Date: 09-06-2025
<document identifier>	

- **Security Requirements:**
 - All user passwords will be stored to protect sensitive account data.
 - Access to administrative and product management functionalities shall be restricted.
- **UI/UX Requirements:**
 - The user interface should be intuitive, friendly, and accessible without being too technical.
 - Key operations such as searching, filtering, and purchasing shall be easily accessible and clearly labeled.
- **Documentation Requirements:**
 - The system shall include user manuals or help pages for end-users (buyers) and administrators (product/account managers).
 - Technical documentation shall be maintained for future development, including details for installation, configuration, and maintenance.

7. Precedence

This website contains more than 20 features. However, team development does not have enough time for developing all those features.

So the following are the features will be completed at the time of the first demo and then the updates will be supplemented until the completion and full of Features Team have planned as well as additional additions if necessary.

- Critical features must complete:
 - User:
 - Login
 - Logout
 - Forgot Password
 - Register
 - Details product
 - View products
 - Search products
 - Filter products
 - Add product to cart
 - Manage shopping cart
 - View ordered history
 - Payment
 - System admin:
 - View user accounts
 - Manage user accounts
 - Product admin:
 - Add, edit or remove product
 - Manage categorise and inventory
 - Manage order
- Features for update:
 - User:
 - Add to wishlist
 - Rate and review products
 - Apply coupon
 - System admin: Features for this role will be add more in the future if necessary
 - Product admin:
 - Approve or remove products review