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**Group01**

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**Tạp Hóa Chuối Bì To**  
**Vision Document**  
Version 1.1

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## Revision History

Date	Version	Description	Author
05/Nov/2022	1.0	Release	Lê Hồ Bảo Nhật Trần Minh Hiệp Nguyễn Thiện Hoàng Trí Ninh Trần Hoàng Quân
14/Nov/2022	1.1	Add features	Lê Hồ Bảo Nhật Trần Minh Hiệp Nguyễn Thiện Hoàng Trí Ninh Trần Hoàng Quân

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# Vision (Small Project)

## 1. Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of Tạp Hóa Chuối Bì To.

The Vision Document applies to project Tạp Hóa Chuối Bì To, which will be developed by Group01.

This software will provide everyone with a safe and convenient place to purchase fresh vegetables.

### 1.1 References

Applicable references are

1. <https://www.youtube.com/watch?v=4NNOPQuePZw&list=PL3Bp9JDvkAra8rRrUOPfKdKvJ6-okqaw&index=9>
2. [https://sce.uhcl.edu/helm/RUP\\_course\\_example/courseregistrationproject/indexcourse.htm](https://sce.uhcl.edu/helm/RUP_course_example/courseregistrationproject/indexcourse.htm)
3. PA1 instruction file

## 2. Positioning

### 2.1 Problem Statement

The problem of	The working class does not have much time to go for food and also markets are usually selling unfresh ingredients.
affects	Working class people and their families,
the impact of which is	Consuming these foods consistently can lead to incurable diseases. Another drawback is that supermarkets are selling organic food at an unaffordable price.
a successful solution would be	Selling food online and providing customers a chance to buy food everywhere they are. Each vegetable also has detailed information about its origin.

### 2.2 Product Position Statement

For	Ho Chi Minh Citizens.
Who	Wants to buy fresh veggies but does not have time to go to market or even does not know where to buy them.
The (product name)	Tạp Hóa Chuối Bì To
That	Enables an online market where people can purchase, rate or leave a comment about the food that they buy
Unlike	Traditional shopping which asks to buy directly. Also lack of detailed information about what they have bought.
Our product	Provides a new approach for buying fresh vegetables to all HCM citizens who can access the internet

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### 3. Stakeholder and User Descriptions

This section illustrates the Users of “Tap Hóa Chuối Bì To”. In detail, there are 3 kinds of Users of “Tap Hóa Chuối Bì To” namely: Customer Users who have the necessary to purchase green and fresh vegetables, Employee Users who work for “Tap Hóa Chuối Bì To”, and Administrators of this website.

#### 3.1 Stakeholder Summary

Non-User stakeholders

Name	Description	Responsibilities
Project manager	A stakeholder leading the system development	Has responsibility for listing the requirements and assigning tasks for every member, and managing strictly the overall Project Management. During the project period, the Project manager must ensure no delays in each phase, review all documents and source codes in each phase.
Administrator	A stakeholder has authority to manage employees of the total system.	Responsible for keeping the progress of the project and also tracking everyone's mission completed on time. Managing system (highest authority: ban accounts, pay salary, etc).
Shopkeeper	A stakeholder who sells vegetables in the market.	Responsible for checking and selling the products. Have authority to publish the information of the product on the website and control the status of orders from Customers.
Accountant	A stakeholder who is statistical staff for giving an overall vision in the project.	Responsible for managing the income in total and product statistics ( popular products, best-seller products, products in stock, etc).
QA/Tester	A stakeholder who tests the system when it is completed.	Responsible for testing including testing all functions of the system ,execution,evaluation of test execution and ensuring all errors fixed.
Inventory Management	A stakeholder who is managing items in inventory.	Responsible for managing all products in inventory including: arranging the products (quantity, quality, origin, etc), checking product of each order and transferring to selling staff.
Delivery	A stakeholder who is delivering the products from Grabs and Shoppee.	Responsible for delivering correctly all products from stores to customer's address and ensuring the safety of products.
Banking system	A stakeholder who is related system of online payment platform,	Responsible for paying online linking to credit cards like: Agribank, Sacombank, Vietinbank, etc.
Supervisor/Mentor	A stakeholder who observes and teaches the process to do the project.	Responsible for observing the process of “Tap Hóa Chuối Bì To”, giving some advice to improve and assessing the results.

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User/Customer	This is an end-user stakeholder who can buy and post products to their social platform.	Has the need for purchasing green and fresh vegetables or wants to explore more about diet meals.
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### 3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Administrator	A stakeholder has the authority to manage employees of the total systems	Has the highest authority for managing the total system.(ban accounts, fire employees,pay salary etc)	Self-represented
Employee	A stakeholder who is staff of any vegetable business model.	Has authority for managing the small system.(post product, product statistics, managing inventory, delivering, etc)	Self-represented
Customer	This is an end-user stakeholder who can buy and post products to their social platform.	Has necessary for purchasing our products.( See the post in our website, order any product and comment , like in every post)	Self-represented

### 3.3 User Environment

- There are 4 people involved in the project. It remains unchanged during this project.
- A cycle task is about 2 weeks. We often spend around 2-3 hours for each task based on the level of challenge. This is also unchangeable during this project.
- Our website can be accessed by any browser namely: FireFox, Chrome, Opera, etc and ensure the device has a good Internet connection to access and use our software smoothly.
- We integrate with MoMo payment application for purchasing online easier than that directly. Also we will cooperate with common banks such as: Agribank,Sacombank,Vietcombank,etc to extend online payment options for users.
- Our website is for everyone regardless of their ages. We just limit the users in VietNam because our project is new and small scale.

### 3.4 Summary of Key Stakeholder or User Needs

After a User Survey of people who are interested in vegetables and fruit (such as housewives, gymers, monks, diet professors,etc) completed, we determine the user problems with negotiating vegetables reasonably and collect those problems to evaluate in our project.A summary of the survey result are listed below in order of relative importance from high to low.

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Need	Priority	Concerns	Current Solution	Proposed Solutions
Safety food assurance	High	Non-origin and unreliable food	Current customers just see the general information of products in each post such as only show from which province and not show any kinds of safety form of preservation of products.	The origin must be reliable from well-known and friendly farms which are certified Organic and Food Hygiene & Safety. Also the farmer must illustrate in more detail how to preserve the products such as using temperature and humidity to ensure the quality of foods along the entire supply chain.
Collecting a large of fresh and green vegetable	Medium	Items are always out of stocks. Hard to collect a large of vegetables	Find out more farmers or suppliers for improving item resources.	Cooperate with other business partners in farmer markets such as : “Bách Hóa Xanh”, “Sapo”, etc for sharing the item resources and supporting others.
Delivery faster	Low	Delaying delivery nearly a week.	Lend more employees for delivery and preparing items positions.	Cooperate with other delivery companies (such as: Grab, Be, Ahamove, etc) for reducing the delivery position of our system and strengthening human resources for preparing products.

### 3.5 Alternatives and Competition

- There are lots of similar websites that dominate the farm market achieving a large number of users such as “Bách Hóa Xanh”, “Manafood”, “Sapo”, etc.
- Also there are Facebook groups namely “HỘI ĐAM MÊ TRỒNG RAU SẠCH TẠI NHÀ” with approximately 255.000 members.
- Users can share the information of posts to their social platforms if those posts are reliable.

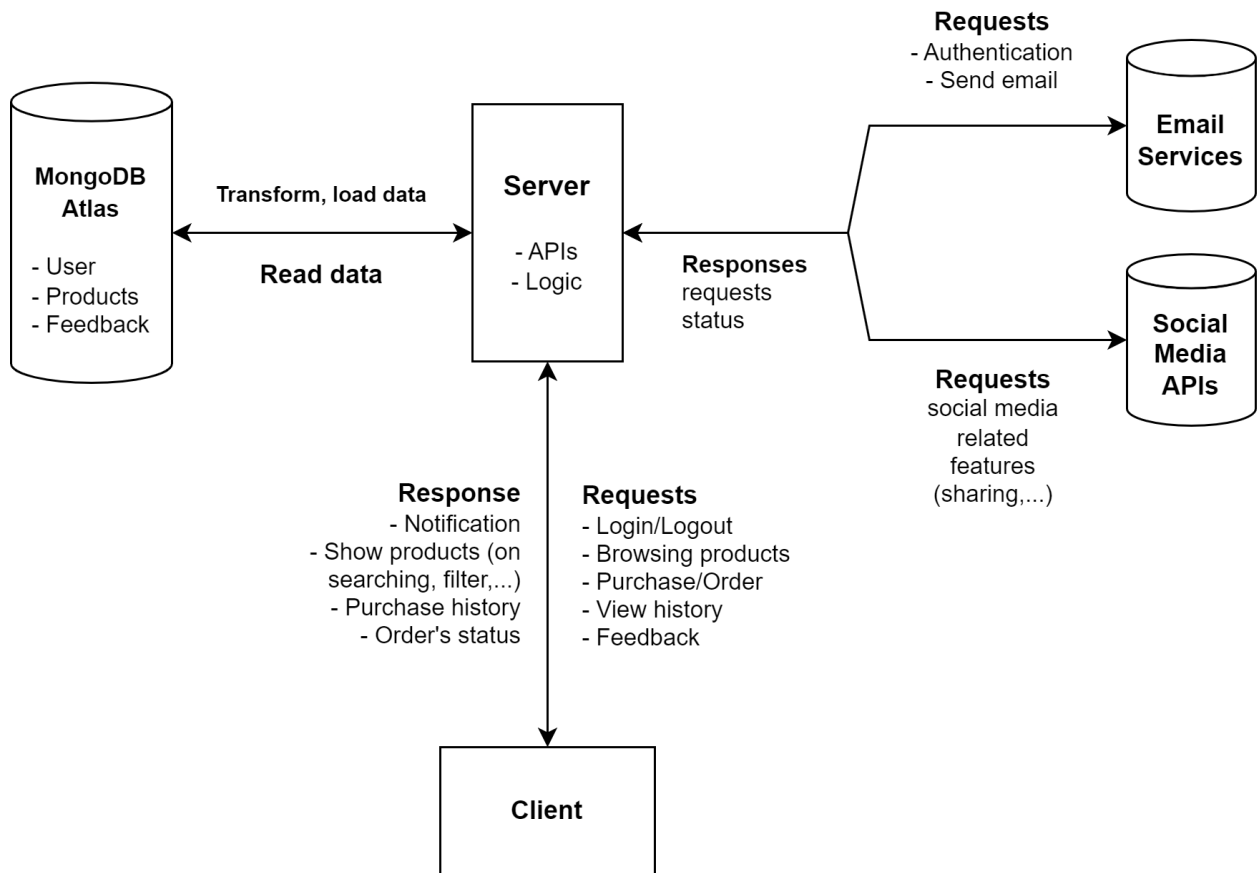
## 4. Product Overview

### 4.1 Product Perspective

- Our product is a web-based application, a system that provides all of the features meticulously described in the Product Features section. The application is a combination of a Linux server with a noSQL Database, Email services and Social Media APIs.
  - **Server:** It will be a machine running on GNU/Linux with sufficient configuration and services for a Web server with MongoDB Database installed out of the box.
    - The application is decided to be used along with a noSQL Database MongoDB (will be installed locally OR we will use Database-as-a-Service – MongoDB Atlas hosted on AWS which is unarguably more reliable and secure) that store almost all the data we need for this application including the products information, feedbacks, user with associating information like user’s wishlist, purchase history, pending orders... In addition there will be Email Services to send and receive emails and Social Media APIs to perform social-media-related features.
  - **Client:** All users who have access to the internet could easily use our application on an up-to-date web browser (a chromium-based browser like a pre-installed M.Edge Browser on Windows to an open source browser like Firefox and its variations...)

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- The following figure is the diagram to what our system expected to be in the future:



#### 4.2 Assumptions and Dependencies

- The plans of 'Services' we may use like Netlify or AWS/MongoDBAtlas still remain the same and accessible until the end of the project
- There should not be any of the serious security vulnerabilities like zero-day occurs in the project timeline
- All predetermined parts of system and its alternatives will not be malfunctioning or becoming unusable at the same time
- All the frameworks, libraries we should be using, still remain usable in production
- The mailing services (especially Google/Gmail) will still be functioning
- Social media APIs - Meta Graph API (for social media create post/sharing feature) be useable until the end of project
- Number of team members (4) still remain the same
- The project's deadlines still be on schedule



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## 5. Product Features

No.	Feature	Description	Priority
1.	Account creating	Users can create new accounts.	High
2.	Account signing in/out	User can log in/out an existing account	High
3.	Profile editing	Users can edit their profile's information (name, email, password, avatar,...)	Mid
4.	Searching items	Users can search for the items they want to check out by typing in the search box, pressing enter and a list of matching items will be displayed.	High
5.	Filter items by a specific property	Users can filter the item list by a property (price, harvest date, rating, top selling...)	High
6.	Purchasing / adding to cart	Users can add the items they want to buy into a cart. Then they can proceed to press purchase, fill out a confirmation form and wait for delivery or just leave the items in the cart if they don't want to afford yet.	High
7.	Purchasing history	Users can check their purchase history which has bought products, prices, purchase date, rating and comments of the user on these products.	High
8.	Wishlist	Users can put their favorite items into a wishlist so they can check on them whenever they want.	Low
9.	Notification	Users will receive notification when the items in their wishlist got a discount or restocked.	Mid
10.	Display all kinds of products	Vegetables are divided into a variety of different categories. Users can visit each category to have a look at all the vegetables available in that category if they don't know which type to search for.	High
11.	Feedback	Users can give any feedback on anything about our service.	Low
12.	Rating/comment	Users after purchasing a product can leave comments and give a rating to our product.	High
13.	Sharing	Users can share our products to other platforms (Instagram, Facebook,...)	Low

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14.	Canceling order	After confirming their purchase, user can cancel their order (THIS MUST BE MADE BEFORE LONG AFTER PURCHASING)	Low
15.	About us	Users can visit our social media (Facebook, Instagram, Tiktok,...) through the link at the bottom of our website.	Very low
16.	FAQ	Users can check on the commonly asked questions (with answers) to have a better understanding of our website.	Very low
17.	Contact us	Our mobile phone is shown at the bottom of the website. Users can contact us through that number.	Very low
18.	Add employee	Admin can add employee account to help manage the website	High
19.	Remove employee	Admin can remove employee accounts if they no longer work for us.	High
20.	Suspend	Admin can ban any account that violates our rules.	High
21.	Best seller	Employees can collect a list of top x best seller item of the week	High
22.	Check stock	Employees can check on a list of items that are nearly out of stock	High
23.	Respond comment	Employees can check on a list of top x latest comments to respond to.	High
24.	Categorize products	Employees can put each type of vegetable in their category on the website	High
25.	Post/edit product information	Employees can post new or edit existing product information on the website (price, image, date, quantity,...)	High
26.	Managing orders	Employees manage customer's orders by updating the orders' status: Waiting / Delivering/ Delivery successful/Completed.	High
27.	Report	Allows the users to report a comment which is not suitable to appear on the comment list.	Medium
28.	View accounts list	Admin can view all the registered user accounts.	Medium
29.	View report	Admin view all reports sent by users	Medium

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## 6. Non-Functional Requirements

\_ **Responding speed:** website should respond to any of the user's commands within 1 sec

\_ **System requirement:** website can run on any browser, any OS, any device.

\_ **Availability:** website should be able to visit 24/7

\_ **Downtime:** should there be any problem and the website has to be shut down for maintenance, downtime should not exceed 12 hours.

\_ **User-friendly:** website's interface should be friendly to users, eye-catching. All the features should be easy to understand and quickly get used to. The content must be illegal and appropriate for any person.

\_ **Security:** website must have the ability to protect every customer's information including profile information and purchasing information.

\_ **Maintenance:** website should be easy to maintain, repair.

\_ **Database:** website should have a large database to store website's data, users' data.

\_ **Stability:** Website should be able to handle 20 users browsing at a time.