E-commerce Web Application

Version <2.0>

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 05/11/2020 | 1.0 |  | Nguyễn Phúc Thịnh. Huỳnh Nhật Nam |
| 23/11/2020 | 2.0 | Edit product feature (about presentation).  Add specifications to Non-functional requirements | Nguyễn Phúc Thịnh |
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# Introduction

The goal of this project is to provide an environment for communication between users and small businesses in terms of buying and selling products. Besides, providing SMEs with the environment for product and business management.

This document describes and explains the vision of the project so that the members can better understand and more accurately understand the requirements. Goals help the project complete more accurately and perfectly

## References

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Customers have to go to a shop to see and buy its products. |
| affects | Small shops, customers, SMEs |
| the impact of which is | It’s inconvenient for customers whose location is far away from the shop. Because of the distance, most likely a shop is only known by the people in local area. |
| a successful solution would be | - Customers can buy products online without going to the shop  - Shop’s profit increased.  - Small shops can gain more reputation and introduce their products to more people.  - Promote economic development |

## Product Position Statement

|  |  |
| --- | --- |
| For | Small shops  SMEs |
| eWho | Want to maximize their profit and gain more reputation.  Who want their company professionally developed |
| The E-commerce web application | is a software product |
| That | - sells and advertise shop’s products through the internet.  - people can connect to their favourite shop just by a few mouse clicks.  - transaction can be done online, much more convenient and effective |
| Unlike | - Costly e-commerce web application out there |
| Our product | * More convenient (easy to use because simple) * Cheap (donate if we want because it is an assignment project) |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| - Shop’s owner (Product’s owner) | -Who buys the product (E-commerce web application) | - Giving product’s requirements, changes in requirements and buying the final product |
| - Project’s monitor | - Teachers | - Giving advises and adjust project’s direction |
| - Team leader/Project manager |  | - planning, organizing and controlling the project. |
| - Business Analyst |  | - Communicating with product’s owner and project’s monitor to understand the requirements and share them with the team |
| - Designer |  | - Designing application’s structure |
| - Team members/Developers |  | - Implementing the application (Writing source code)  - Giving information about their progress and what problems they have so that project manager can monitor the project better. |
| - Testers |  | - Making testing plan  - Testing the product to find bugs. |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Customers | End-user | Buying shop’s product | Self-presented |
| Administrator | - Shop’s owner | - Adding products information to the web  - Manage remaining products | Self-presented |

## User Environment

- Customer can sign up and login.

- Customer will come to the website and see product’s information likes name, type, price,… Then he/she can add products which he/she want to buy to a shopping cart. After chosing products, customer can choose to pay by cash then the shop will receive the order and ship it to customer’s address (The shipping process is determined by shop’s owner)

- Shop’s owner can add more products to the web using administrator’s account.

- All of the activities above will be done using web browser, users can use either mobile devices or PC.

## Summary of Key Stakeholder or User Needs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Broadcast messages  (SMEs) | 2 | Privacy  Personal information | Through facebook | | Buys information from search servers  Auto send messenger to potential customers |
| Watch the product video (customer) | 1 | Size of video  Display speed | Sent via inbox to guests | | Allows upload video description |

## Alternatives and Competition

* Maintaining the status quo

# Product Overview

## Product Perspective

- This product is self-contained, it’s an interface for the connection of a shop and its customers through internet.

sending and receiving data about information of customer’s account, products.,,,

Web application

Database

internet

internet

## Assumptions and Dependencies

- This product is assumed to be available on most of common web browser:

+ Chrome

+ Safari

+ Firefox

+ Opera

- Using heroku for web server

# Product Features

* Create an account and login
* Change account’s profile
* Provide an environment for customers to find and select products.
* View description, photo, price of the product.
* Add product to cart
* Remove product from cart
* Add note to product upon delivery.
* Pre-order.
* Communication between businesses and customers: via FB, email, inbox to Admin who is online.
* Choose a payment method: online, via internet banking, bank transfer, visa ...
* Manage the remaining quantity of products in stock
* See details about the amount of products sold.

# Non-Functional Requirements

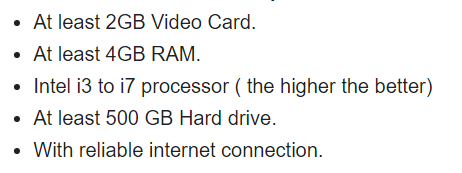
* Browes:
  + Mobile

|  | **Chrome** | **Firefox** | **Safari** | **Android Browser & WebView** |
| --- | --- | --- | --- | --- |
| **Android** | Supported | Supported | N/A | Android v5.0+ supported |
| **iOS** | Supported | Supported | Supported | N/A |

* + PC

|  | **Chrome** | **Firefox** | **Internet Explorer** | **Microsoft Edge** | **Opera** | **Safari** |
| --- | --- | --- | --- | --- | --- | --- |
| **Mac** | Supported | Supported | N/A | N/A | Supported | Supported |
| **Windows** | Supported | Supported | Supported, IE10+ | Supported | Supported | Not supported |

* For the administrator: request to change and update data on devices running Windows (7, 8, 8.1, 10), with Mongo DB 4.4.1
* Configuration required for Admin PC:



* Server request: have regular backups (every day), has stability. should have alternate power supply (UPS)
* Responding time: under 5 seconds
* Fault tolerance:

+ Can continue to operate in case the data is unaffected and backed up. No error will arise in case the administrator uses the correct instructions.

+ Downtime under 5 minutes per month.