Product Scanner

Vision (Small Project)

Version <1.0>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 04/11/2017 | 1..0 | Initial working in Vision document | Group |
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# Introduction

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

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

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | lacking a quick way to find the information of a strange product |
| affects | population especially foreigners |
| the impact of which is | The user may misuse or buy products that are too expensive compared to normal prices. |
| a successful solution would be | to provide them a quick way to get easily information about product by scan barcode |

## Product Position Statement

|  |  |
| --- | --- |
| For | Population especially foreigners |
| Who | look for information about product |
| The Product Scanner | is an android application. |
| That | gives the price of a product in many different sources |
| Unlike | other pages or apps about food and drink |
| Our product | focus on supplying the best price for customers, gives them more options with credible comparison and some suggestion to consider |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Developer | Developer of app’s source code. | Responsible for developing, extending the system/project. |
| Maintainer | Maintain the system | Manage the evolution of the system/project once it is operational. |
| Testers | Person in charge of testing the app before publication | Ensure the app runs well and satisfies the requirements. |
| Leader | The leader of the team in charge of the project | Monitors the project’s progress |
| Designer |  | Responsible for the UI design. |
| Database developer | Developer of database to store product’s information | Design and develop a database which provides required information about products |
| Admin | People who look after the applications after being released. | Manage accounts  Inspect the added products by users. |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Purchaser | Buying products | Captures details  Write reviews  Enrich the database.(optional) |  |

## User Environment

In order to use Product Scanner, the user needs only a device running on Android with a camera. A permission will be required to the user to use camera. Moreover, the Android version must be at least 6.0.0 (Marshmallow), so it covers a huge range of devices. Then, internet connection is only needed to download the application and to update database. Therefore, the app does not require internet connection to be used. The user has only to scan a barcode to get information, about 5 or 10 seconds. Sharing on Facebook depends on the user, if he wants to write text ,etc. It would last at most 30 seconds since the user has linked his account to the app. An internet connection is needed in this case.

## Summary of Key Stakeholder or User Needs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** |
| The way of finding prices of products in foreign country (Vietnam). | 1 | Get the prices of products quickly and easily in Vietnam. | Look up online to find the prices. | Scanning barcode application which supports multiple language |

## Alternatives and Competition

**Shopsavvy Barcode & QR Scanner**:

**Strengths**:

+ The most famous barcode scanner application across the world

+ It has a cashback system

+ It permits to get local price and online price

**Weaknesses**:

+ It does not have data about Vietnamese product

+ It has a lot of ads

**iCheck**:

**Strengths**:

+ The famous barcode scanner application  in Vietnam with lots of feature

+ It has a great community

+ Scans objects quickly and correctly.

**Weaknesses**:

+ It does not have feature to record and calculate the total prices of scanned products.

+ This application only supports Vietnamese.

+ It cannot be used when there is no internet.

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Feature** | **Description** | **Priority** |
| 1 | Scan | Scan product and show its information (name, price, expiry date, …) | High |
| 2 | Compare | Compare the same product from different places to find out where to buy the best one | High |
| 3 | Add to cart | Calculate the total number, prices of products, generate the bill. | Medium |
| 4 | Sharing | Let users comment about product or share it on Facebook | Medium |
| 5 | Login with Gmail or Facebook | Let user update data, access to the system by using their available Gmail or Facebook account. | Medium |
| 6 | Rating | Rate star for product (over 5 stars) | Low |

# Non-Functional Requirements

* When user updates data inside the app (for example: add a product), the database will change if there is the acceptance from the admins. The admins also manage and update the database daily.
* Capacity of product: the app will store about 50 different products and will be expanded later
* Performance: It depends on capacity of database. If the database is large, app will respond slower.
* Security: user id and password are protected safely by Gmail and Facebook account.