**Vision and Scope Document**

**for**

**SPOT**

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# Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Changes** | **Version** |
| Benedict Agno | January 28, 2018 | Incomplete document | 2.0 |
| Benedict Agno | March 19 2018 | Completion of document | 3.0 |

# Business Requirements

## Background

The main reason in creating this project is to help visually impaired people to familiarize their selves in their surroundings. Aside from helping visually impaired people the application also the developers would also want to help people like tourists so that they would know what a subject is even though it doesn’t exist in their home country it also helps people to obtain knowledge in using the application.

## Business Opportunity

The spot can be commercialized to a specific small business, tourist destination and general-based knowledge. A small business that can show their product image and information when the user used the application. And the tourist destination, the developers can set a search engine optimization for the quality of information. And general-based knowledge for everyone, the developers can put a google advertisements to make monetization on the mobile application.

## Business Objectives and Success Criteria

The business objectives of the project are to make monetization on the mobile application, the quality of the information through the set of search engine optimization and efficiency of the mobile application. With the business objectives, the developers have the obligation to maintain quality and efficiency of the mobile application

## Customer or Market Needs

## Business Risks

One of the business risk that the project would have to face is the availability of similar project although Spot has a uniqueness from those projects that exist it still won’t stop people from comparing Spot to them. Another business risk is the user acceptance, how will they act when using the application and what will be the impact of the application to them.

# Vision of the Solution

The application should be able to meet the primary goal of the application which is to provide visually impaired people knowledge about their environment even though they are visually handicapped. Unlike other similar applications, Spot would be able to provide the help they need and the information that they need so that it doesn’t only provide a new view on their surroundings, but it also adds up to their knowledge through the information given by the application

## Vision Statement

The Spot is developed for people with visual impairment; it aims to help them through granting them on what are the subjects that are around them. The Spot would make visually impaired people’s life easier because instead of them using walking cane to identify a subject in front of them, they can use Spot and point it into different subject and properly identify them

## Major Features

The major features of Spot are:

* It detects subjects with the use of phone camera
* It gives detailed information of the subject e.g. the use of the particular subject, color and a short history of it
* It converts texts to speech, so the users will be able to hear the information given

## Assumptions and Dependencies

The success of the application relies on the major features that it possesses during its initial release, these features would be fulfilled with the help of application programming interface or API coming from the Microsoft Azure Cognitive Services specifically the Computer Vision API and the Bing Speech API, the application would be programmed in Android Studio. These dependencies would be very vital to the application’s success.

# Scope and Limitations

The project developers formulated the scope and limitations of the project to identify the boundaries of the application. The scope of the project includes the following:

* The application will be able to gather information through narrowing searches and finding the most viewed results
* The application will be able to convert the displayed text into a speech module where target users will be able to hear it.
* The application will enable visually impaired people, who are the main target of the application; find out what subject is in front of them and harvest information about that subject.
* The application can save recent scans of a subject for offline use.

## Scope of Initial Release

The initial major features that will be included in its initial release would be the detection of the subject through the camera, the display of the detailed information gathered by the application, the conversion of the text into speech modules and the saving of the recent scanned subjects. The benefit of these features would be a great help to visually impaired people

## Scope of Subsequent Releases

With the advancement of today’s technology, there will be no major feature that will deferred instead these major features will much more likely be enhanced as time progresses.

## Limitations and Exclusions

The limitation of the application is that on its initial release it would be released on android platform only, the thoughts on releasing it to iOS are being discussed by the developers. Also, the application would only be converting the text into speech module with English as its language, so far the thoughts on releasing a module that translates the text into any language the user wants is being discussed by the developers.

# Business Context

## Stakeholder Profiles

The stakeholders can be anyone who owned the Android Smartphone. Stakeholders that can understand how the mobile application will work and a certain question on the environment he or she doesn’t know, that's why he or she is using the mobile application.

## Project Priorities

The priorities of the mobile application are the efficiency, quality and search engine optimization to give a concise information on the subject matter.

## Operating Environment

The operating environment of the mobile application is a Linux kernel operating system running on android application. The developers decided that will use the Android Studio to create the spot mobile application. The programming language that will be used is Java. And for the APIs, the developers decided Microsoft Azure.