**Software Requirements**

**Specification**

**for**

**Bisita Pilipinas**

**Version 1.0 approved**

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# Table of Contents

[Table of Contents 2](#_Toc114665768)

[Revision History 2](#_Toc114665769)

[1. Introduction 3](#_Toc114665770)

[1.1 Purpose 3](#_Toc114665771)

[1.2 Document Conventions 3](#_Toc114665772)

[1.3 Intended Audience and Reading Suggestions 3](#_Toc114665773)

[1.4 Product Scope 4](#_Toc114665774)

[1.5 References 4](#_Toc114665775)

[2. Overall Description 4](#_Toc114665776)

[2.1 Product Perspective 4](#_Toc114665777)

[2.2 Product Functions 4](#_Toc114665778)

[2.3 User Classes and Characteristics 4](#_Toc114665779)

[2.4 Operating Environment 5](#_Toc114665780)

[2.5 Design and Implementation Constraints 5](#_Toc114665781)

[2.6 User Documentation 5](#_Toc114665782)

[2.7 Assumptions and Dependencies 5](#_Toc114665783)

[3. External Interface Requirements 5](#_Toc114665784)

[3.1 User Interfaces 5](#_Toc114665785)

[3.2 Hardware Interfaces 5](#_Toc114665786)

[3.3 Software Interfaces 6](#_Toc114665787)

[3.4 Communications Interfaces 6](#_Toc114665788)

[4. System Features 6](#_Toc114665789)

[4.1 Tourist Spot Finder 6](#_Toc114665790)

[4.2 Sorting and Filtering 6](#_Toc114665791)

[4.3 BnB Service Redirection 6](#_Toc114665792)

[4.4 Chat Bot 7](#_Toc114665793)

[5. Other Nonfunctional Requirements 7](#_Toc114665794)

[5.1 Performance Requirements 7](#_Toc114665795)

[5.2 Safety Requirements 7](#_Toc114665796)

[5.3 Security Requirements 7](#_Toc114665797)

[5.4 Software Quality Attributes 8](#_Toc114665798)

[5.5 Business Rules 8](#_Toc114665799)

[6. Other Requirements 8](#_Toc114665800)

[Appendix A: Glossary 8](#_Toc114665801)

[Appendix B: Analysis Models 8](#_Toc114665802)

[Appendix C: To Be Determined List 9](#_Toc114665803)

# Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Purpose

BISITA PILIPINAS is a web application intended for local or foreign tourists that will be visiting a certain location in the Philippines. The web application will be integrating most visited destinations in the Philippines and from there, it will serve as a guide for the tourists to help them look any restaurants to eat within the user’s location. All the destinations and locations that will be integrated within the system will only be in the Philippines.

## Document Conventions

The font that the team will be using in creating the Software Requirements Specification document is “Times New Roman”, the team chose the font for its readability and formality of the document. The change in font size & typographical emphasis may vary depending on its context and importance. Topics are labeled in whole numbers because they serve as the main topic, under it are labeled as decimals because they will serve as supporting information to the main topic. Main and Sub topics are in bold typographical emphasis to become more readable to the reader.

## Intended Audience and Reading Suggestions

This document is specifically for the developers, testers, and client’s reference, but end users who are interested in understanding the system more can also review the file. It will make things more convenient once developers read this document as they will have an idea on what the clients need, as well as what approach they would need to provide to the project and meet the requirements on time. The client will list all the requirements, and ideas they want the team to develop, as well as confirm if the developers was able to meet their set standard. They will also provide satisfaction level to know how much the project helped and solved their problem. The end users will have an idea on what they will gain if they use the system – if it can really help them to provide answers and help them on what they need.

Aside from serving as a guide on how to use the application, it’s also to help familiarize the intended audience in the inner specifications of the system – the operating environment, intricate descriptions of the features included, how to test its functionalities, and explanation about their response sequence.

Readers are encouraged to start with the Introduction section to get a generic idea about the system and the documentation. If the reader is a tester, the team recommends focusing on chapters 2, 3, and 4, as these sections elaborates the system features. The developers can read the document as it is since it would be better to have them get a full grasp of the documentation.

## Product Scope

* A service that will be developed as a web application that focuses on tourist attractions and restaurants.
* Filtering and sorting of prices and nearest restaurants based on the user’s location.
* The web application will be developed using HTML5 and PHP.
* Bisita Pilipinas web application utilizes the internet to get the updated price of the rent and the food.

## References

* *https://www.softermii.com/blog/how-to-make-an-app-like-airbnb*

# Overall Description

## Product Perspective

BISITA PILIPINAS is a new product in a form of a web application that will serve mainly as a guide for local and foreign tourist that will be visiting a certain location in the Philippines. However, due to time constraint the system will just be a Web application will just be developed for a chosen small area here in Philippines. BISITA PILIPINAS provides all functionality described in the Product functions section. BISITA PILIPINAS will be showing the user all the possible places to stay and dine with within an area. The Web application will sort all the result basing on its price, rating, and how far it is on the user’s current location. There will also be a chatbot for the user to asks Frequently asked questions (FAQs). The product on its initial development will just be a web application first and the Mobile version of the application can be followed on future development.

## Product Functions

* Will provide a convenient and user-friendly way for the local and tourist travelers to look for the nearest, budget-wise, good-reviewed restaurant, surrounding their chosen tourist spot.
* Easier web application to browse because the tourist spot locations are already highlighted in front of them.
* Travelers can conveniently sort and filter the price and range of their chosen tourist spot attraction to locate the best restaurant at their preferences.
* Travelers can utilize chat bot as their guide on how to properly utilize the web application.

## User Classes and Characteristics

**Admin:** Responsible for managing the backend of the web application – from maintaining the security to ensuring a proper data flow to the database. Aside from that, they’re also in charge of providing technical support for the end users and making sure that they’re able to utilize the functions according to its actual usage.

**Tourists (End Users):** Has the ability to access the features offered by the application. They can register and log into their account, enter their desired location and filter it out by its distance to display the nearest places they can go to, and explore new spots to spend time on.

The web application is built mainly for tourists so the team will be prioritizing their satisfaction.

## Operating Environment

Bisita Pilipinas is compatible with Windows 8 and later, the Mac X operating system and later, and mobile phones via Safari and Google Chrome. If used in later versions of the said operating system, errors, malfunctions, and problems can be experienced. The system can be maintainable in HTML5 and PHP.

## Design and Implementation Constraints

Bisita Pilipinas is a web application that is built using HTML5 and PHP. Although it will not be integrated as a mobile application, it can still be accessible in any other devices through a browser. In line with this, the system can only be utilized if the user has an internet connection.

## User Documentation

Most of the users of this web application are foreign and local users, so it is possible that users may still need a little help on how to use this system, especially if it is new to them. The developer will do the easiest and friendliest web app design so that users can easily understand how to use Bisita Pilipinas. This document will also serve as a manual and guide that they can access online.

## Assumptions and Dependencies

The assumption that could affect the web application is the compatibility or the UI that will show when you open it on your mobile phone. Another assumption that the developer thinks can affect the overall experience of the user includes speed, loading time, and accuracy is internet connection. Lastly, when the user thinks that Google is easier and more functional, they won’t give a chance to try Bisita Pilipinas. This web application is dependent on a web browser, so a few changes in the specific web browser’s system may affect the functionalities of Bisita Pilipinas.

# External Interface Requirements

## User Interfaces

* + - * The user interface for the web application shall be compatible to any browser whether in mobile phone or PC.

## Hardware Interfaces

* The web application Must run over the internet, all the hardware shall require internet connect whether via Mobile data, modem, WLAN, Ethernet Cross-Cable.

## Software Interfaces

* The Web Application Shall require a Geographical Interface and Global Positioning System (GPS) to identify the location of the user.
* The Web application shall require the user to provide User details on creating an account in our application
* The Web application shall communicate to the backend to identify the user credentials

## Communications Interfaces

* The Web Application Shall Use HTTP protocol communication over the internet.

# System Features

This section contains the main major features of Bisita Pilipinas, and to discuss its description and functions.

## Tourist Spot Finder

### Description and Priority

* This is a function where travelers are able to view all tourist spots in a highlighted button located to the map. The priority of this function is medium because this saves time user to look for their desired tourist spot.

### Stimulus/Response Sequences

* It will display all the tourist spots and its location.

### Functional Requirements

* **Step 1:** Access the web application.
* **Step 2:** View all highlighted tourist spot locations.
* **Step 3:** Click the desired tourist spot.

## Sorting and Filtering

* + 1. Description and Priority
* This is a function where travelers are able to sort and filter the price and distance of near and budget-wise restaurants based on their chosen tourist spot. The priority of this function is high because this makes this convenient for users to use in finding their preferred restaurant instead of looking every single restaurant in the vicinity of the chosen tourist spot.
  + 1. Stimulus/Response Sequences
* It will display the possible restaurant based on the traveler’s preference in their sorting and filtering.
  + 1. Functional Requirements
* **Step 1:** Click on the preferred highlighted tourist spots.
* **Step 2:** Sort and filter the distance and price of the chosen tourist spot.
* **Step 3:** Restaurant’s location displayed based on the user’s preferences.

## Bnb Service Redirection

* + 1. Description and Priority
* This is a function where travelers are able to redirect to the chosen restaurant’s webpage for more information about the chosen bnb. The priority of this function low because user may or may not visit the restaurant’s webpage to know more about them, because in the web application they can just view the reviews of the users to the chosen restaurant.
  + 1. Stimulus/Response Sequences
* It will redirect the user to the chosen restaurant’s webpage for more information.
  + 1. Functional Requirements
* **Step 1:** click on the preferred bnb service.
* **Step 2:** click “visit webpage” to redirect to the chosen restaurant’s webpage.

## Chat Bot

* + 1. Description and Priority
* This is a function where travelers are able to use chat bot for them to be guided if they do not know how to properly utilize the web application. The priority of this function is medium because this will help tourists especially the foreign ones to use the web application properly.
  + 1. Stimulus/Response Sequences
* It will guide the traveler on how to use the web application.
  + 1. Functional Requirements
* **Step 1:** Access the main homepage of the website.
* **Step 2:** Click the chat bot icon on the bottom right of the screen.
* **Step 3:** Ask questions to the chat bot on what to do.

## Bnb Registration

* + 1. Description and Priority
* This is a function where owners are able to register their business/property to the system and showcase it for travelers to eat and stay. The priority of this function is high because this is the system’s main purpose is to showcase their business to the tourists.
  + 1. Stimulus/Response Sequences
* It will display the owner’s Bnb business in the map.
  + 1. Functional Requirements
* **Step 1:** Access the main homepage of the website.
* **Step 2:** Click the chat bot icon on the bottom right of the screen.
* **Step 3:** Ask questions to the chat bot on what to do.

## Bnb Booking

* + 1. Description and Priority
* This is a function where travelers can book their chosen bnb service after choosing a tourist spot for them tov visit. The priority of this function is high.
  + 1. Stimulus/Response Sequences
* The owner will be notified by the set booked of the user.
  + 1. Functional Requirements
* **Step 1:** Click on the preferred bnb service.
* **Step 2:** Click the “book now” button.
* **Step 3:** Fill out necessary information (date, time & # of people)
* **Step 4:** Click confirm button.

# Other Nonfunctional Requirements

## Performance Requirements

The Bisita Pilipinas web application must provide an accurate distance, sorting of which location is near and the inputted budget by the user for which restaurant will sell the cheapest food.

## Safety Requirements

Bisita Pilipinas won't let any biases to any restaurant near the tourist spot's location. The Bisita Pilipinas will use an API to get the exact distance between the tourist spot and the location of each near restaurant.

## Security Requirements

Bisita Pilipinas security feature:

* A database for storing accounts.
* Security Policy
* Different access constraint for Admin and user.
* Option for location tracking.
* No selling of personal data.

## Software Quality Attributes

BISITA PILIPINAS will make visiting a Philippine attraction easier by showing them possible places that can be visited, stayed, and dine in within the area. Due to time constraint, the project will just be a web application and will just be focusing on a small area of attraction available in the Philippines. However, this project can be developed as a mobile application and can be improved for it to be able to provide information about all the attractions available nationwide. This project will also cater for our locals that provides bed and breakfast for our tourist. With this, the project can make sure to provide the tourists less cost on their stay and have more budget for their overall visit.

## Business Rules

* Administrator maintains the backend of the web application and is responsible for providing technical support to the end users.
* End users enter a location they would want to filter by its distance to get a list of restaurants, hotels, or attractions near their area.
* End users use the chat bot to help them with using the web application if they’re not familiar with it yet.

# Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

# Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

# Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

# Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>