Project Feasibility Document

Geo location based Service finder for User Needs (GSUN)

1. Project Overview

1.1 Introduction

Geo location based Service finder for User Needs (GSUN) project is to provide information about sales points to the users based on their geo location. This is a free application that contains almost all the names, places and services that business people provide in Sri Lanka. Through voice recognition the application going to know what user requires. Then application provides a list of information that exactly matches user needs and some suggestions. Through application user can also get the contact details to those places, so that user can easily contact to those places and get the service done. Meanwhile the system provides a web interface which allows business people and other community to enrich the application by providing information to the system.

1.2 Scope

This system is based on Android platform (2.0 or higher). So people who are having android platform within Sri Lanka are targeted in this project.

a. Time Line

This project is to go with the Evolutionary Exploratory process throughout two and half months, with continuous evaluations. Within development project has to go through 2 iterations.

Final Demonstration scheduled to be held on 15th March 2012.

b. Deliverables

- Project Feasibility Document
- Project Vision Document
- Project Schedule
- Project Development Case
- System Requirement Specification
- QA Plan
- System Architecture and Design Activity
- Weekly Reports
- Midway Demonstrations
- Final Demonstration

c. Resources

- The RUP templates are used for documentation purposes.
- Eclipse IDE and Android SDK is use for coding purposes.
- Android official forum and developer's site is use to get help.
- Android emulator is use to test the functionality if the application.

2. Feasibility Study

This study will enable to determine whether this project is feasible to carry out or not.

I. Financial Feasibility

This Android project is a standalone project so no needs to access other services. This project use freely available Android SDK and programming languages. Hence this project seems to be totally viable in financial terms.

II. Technical Feasibility

This project is a standalone application for Android phones. Coding has to be done in java with the support of Android SDK. Server side scripting has to be done using PHP and there are so many free hosting PHP support servers are available. Both PHP and Java support standard Object Oriented standards and provide guidance in all aspects of development.

PHP and Java enable to handle SOAP messages. So message exchanging and developing web application can be accomplished through those technologies. Meanwhile Android platform has supporting libraries that enable to get the current geo position, Google map service, Voice recognition, Spell checking facilities.

Therefore developing this project is technically feasible.

III. Operational Feasibility

This project is to complete within two and half months of period after giving approval for the project idea. So there has a considerably large amount of work and have to obtain knowledge about immerging technologies. So by spending considerable time on this project and getting help from community about new technologies will be needed to make this project operationally feasible.

IV. Risk Feasibility

This project is to build a separate application that uses the basic infrastructure provided by the Android platform and serve the user. So this application will not harm any other application running on the platform. But in here I assume that service providing applications are functioning well. So for a well working platform this project doesn't carry a risk at all.

V. Social/Legal Feasibility

Since this project completely use open source freely available tools and libraries, there won't be any legal issues regarding the reuse of those components.

Therefore throughout the all feasibility tests, it shows that the project can be completed within the given time schedule.