UOM CSE

Parental Controller for Android
Feasibility Report
Version 2.1
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Document Control

Approval

The project evaluator shall approve this document.

Document Change Control

Initial Release:	1.0
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Distribution List

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Guidance Team Members:

Project Evaluating coordinator of CS3202

Change Summary

The following table details changes made between versions of this document

Version	Date	Modifier	Description
1.1	28/12/2011	H.M.G.C.Karunarathne	Modify feasible report
1.5	13/02/2012	H.M.G.C.Karunarathne	Modify feasible report for mid-evaluation
2.1	27/03/2012	H.M.G.C.Karunarathne	Modify feasible report for final

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1. Overview of Project

1.1. Introduction

The project mentioned in this document is a application software running on Android OS which has the feathers of controlling one Android device (child droid) by another Android device (parent droid) and transmitting information between two device. This Document will collect information about feasibility of operating of project.

1.2. Project Scope

This software application is limited on Android Operating System support devices. The targeted group of this project is parents who want to keep tracking on their children remotely.

1.2.1. Time Line

This project is proceeding with using Software development methods with the inspection of coordinator on this module. It is started at 21st December 2011 with verbal confirmation of project evaluator and plan to proceed until 15th March 2011 with having two major development iterations.

1.2.2. Deliverables

- Project Feasibility Document
- Project Vision Document
- Project Schedule
- Project Development Case
- System Requirement Specification
- System Architecture and Design
- QA plan
- Two development iterations with demonstrations.
- Final Demonstration

1.2.3. Resources

- The RUP templates are used for documentation purposes.
- Android software development API (http://developer.android.com/reference/packages.html) and . Help can be found in the user mailing lists Android forum. http://developer.android.com/resources/community-groups.html
- Learn environment of University of Moratuwa. (http://lms.uom.lk/moodle192/)

2. Feasibility Study

The collection of information under this topic will be determined whether this project is feasible to proceed or not.

2.1. Financial Feasibility

Google is owned the Android and it releases the Android code as open-source, under the Apache License. Hence, the tools are free under open source license and other requisites are supplied by CS3202 module. It doesn't need any initial cost for start the project and proceed. Thus, this project is completely feasible under financial feasibility.

2.2. Technical Feasibility

The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language and java scripts (http://developer.android.com/guide/basics/what-is-android.html) .Java is a language I'm (H.M.G.C.Karunarathne-developer) more familiar with. The application software is going to implement on top of java based API.
http://developer.android.com/reference/packages.html

http://developer.android.com/guide/appendix/api-levels.html

Because of Android is a very famous OS, it is possible to have good sample and good community to get help. Thus, support can be found in the user mailing lists Android forum.
http://developer.android.com/resources/community-groups.html

Android provided simulator to develop apps. So, there is no need of having actual hardware for development.

So, there isn't any technical issue.

2.3. Operational Feasibility

This project should be completed in two and half months with started at 21st December 2011 with verbal confirmation of project evaluator and plan to proceed until 15th March 2011. Also, the application have considerable amount of work load and I wish to have 10-15 hours per week for work on this project.

2.4. Risk Feasibility

This is separate application software which is running top of Android OS as other apps. If the project is successfully finished, users can have more featured software which isn't available for free in Android community.
Otherwise if the project fails, there is no affect on overall Operating System.
Hence, it is guarantee that there isn't any risk, not at all.

Risk reported is generated for the project.

2.5. Social/Legal Feasibility

The "Eclipse" IDE use to develop software and other resources used are open source. Hence it seems this project is feasible enough to be carried out, with in the given schedule.

Android : http://source.android.com/source/licenses.html
Eclipse : http://eclipse.org/legal/epl-v10.html

3. References

Wikipedia : http://en.wikipedia.org/wiki/Android_%28operating_system%29