Development Plan for OSS World Challenge 2011

Registration No.	2011-	※Registration No. need not be written.
Program title	Photo sharing in ad-hoc community with MeeGo terminal	

※ Follow the content below without fail.

1. Program Overview

1) Development goals (background, aims etc.)

An ad-hoc community is a group of people who gather together temporarily and can join or leave independently and momentarily. Document sharing among mobile devices held by the community members through ad-hoc connections is very interesting and also useful in a lot of scenarios, for examples, at a conference site, in a class. This program will implement a photo sharing system for ad-hoc community on MeeGo terminal. With this system, people can publish their photo information through photo tags, and find interesting photo and then get it via one or multiple community members. This system is especially useful, for example, in scenic spot or performance spot, to share wonderful pictures. It can also be used for some special purpose, for example, to find something lost by gathering pictures from all community members.

2) System configuration

Three or more handheld terminals connected via wireless radio. Each terminal has camera function and runs MeeGo OS. Our program runs in each MeeGo terminal.

3) Menus

Main functions menus in this system includes:

1. take photo

2. attach tags to photo and publish them

3. find interesting photo through tags

4. get photo wanted

4) Language used for development

Qt/QML, C++

5) Systems used

  1. Lenovo ideapad S10-3t

  2. MeeGo 1.2 for tablet

6) Plan for each development stage

Our development stages include:

1. Get familiar with ideapad S10-3t, MeeGo, and SDK - 1 week;

2. System requirement analysis and design – 1 weeks;

3. System implementation

    a) wireless communication development stage – 1.5 week;

    b) photo tag related functions – 2 weeks;

    c) photo search related functions – 2 weeks;

    d) photo transmission, caching, etc. – 3 weeks;

4. System test – 1 week.

7) Number of personnel input and work assignment

Persons involved in this work include 1 teacher, 2 PhD students and 4 master and undergraduate students;

The teacher's responsibility is leading the team, coordinate all members, and even solve difficult technical matters;

The 2 PhD students is responsible for the system design and communication subsystem implementation;

The up-level photo sharing subsystem will be implemented and tested by the 4 other students.

2. Long-term prospects of the program developed (No specific form is required.)

The following two points will be considered to enrich our photo sharing system in future:
1. The communication subsystem will support wireless radio, Bluetooth, and even infrared transmission. So the network will be a hybrid network, and the communication subsystem will smartly and adaptively use the most appropriate way to communicate according to terminals' remaining energy, signal status, transmission distance, and etc.

2. The system will support all file type, not only photo.

We also plan to port this system to iphone, android platform, to make more people use it, and enjoy it.

※ Name the file 'development plan-team name (team leader's name)' before saving it, please.