

User Evaluation for Sensor Network over Mobile Devices

Introduction

I'm Thisara Rupasinghe and I'm following MCS program at University of Colombo School of Computing. Therefore as my masters project I'm trying to use mobile phone network as ad-hoc sensor network. Since now a days mobile phones are much advance and equipped with lot of sensor this has became reality. As a result I have implemented the infrastructure that is SOA bases central server and then a prototype mobile application for Android platform. Target android version for this application is Android 2.2 Froyo.

Therefore this is to collect your feedback on that Android mobile application named “Mobile Ad-hoc Sensor Network”. Basically this application is for collect magnetometer reading around all over the world on a user specific location and a user specific time interval. It users the android mobile phone network to collect data and uploaded into a centralized server where user has access to view those information. At this time, this application is only available for android mobile phones and only for magnetometer sensor. But this has been implemented in a way that this can be used for other sensors on the mobile phone currently and to be introduced in future.

Therefore your feedback will be really helpful to improve the usability and the usefulness of this application furthermore.

Please note that your personal information and your feedback will safe with us and will not be used for any other purpose or will not be disclosed to any other person/organization.

	Description
1	Strongly Disagree
2	Disagree
3	No Comments
4	Agree
5	Strongly Agree

.....
Thisara Rupasinghe

Date: 08:10:2011

Personal Information

1. Name: _____
2. Age: _____
3. Gender: M | F
4. Computer Literacy: _____
5. Area of education: _____
6. Occupation: _____
7. Computer Literacy: _____
8. Mobile Device: _____
9. Android version: _____

	Description	Rate					Comments
UI Related							
1	It is common familiar login screen. Layout and the password recovery function very helpful.	1	2	3	4	5	
2	Register New User screen is a well structured. Layout is quite usual. No sensitive information needed.	1	2	3	4	5	
3	View data screen layout is a simple table. Since there is limited space available only critical information displayed.	1	2	3	4	5	
4	It interactively display all reading data once touch on a record at the view data screen.	1	2	3	4	5	
5	Add Job screen includes all data fields at one screen without scroll. It is a simple layout design.	1	2	3	4	5	
6	Add job screen field validations and error messages are displayed using toasts.	1	2	3	4	5	
7	View job screen has perfect scrollable screen with touch to edit functionality.	1	2	3	4	5	
9	Home screen has good navigation to all functions and space utilized wisely.	1	2	3	4	5	
10	All screens are auto rotating with accelerometer input.	1	2	3	4	5	
11	Scroll bar is available everywhere it is necessary.	1	2	3	4	5	
12	Error messages are given each time there is system exception or users mistakes.	1	2	3	4	5	

Functional							
12	Can not step into the system without user login. All authenticated users allow to login to the system.	1	2	3	4	5	
13	Sync functionality work properly without any errors or conflicts.	1	2	3	4	5	
14	Email Data function is useful feature to have. User receives nicely formatted data set.	1	2	3	4	5	
15	System does not crash unexpectedly.	1	2	3	4	5	
16	Data collected are exactly align with the specific job added.	1	2	3	4	5	
17	Application response time is quite impressive.	1	2	3	4	5	
18	Most contributed users get priority over others.	1	2	3	4	5	
19	Saved user information used when he returned next time.	1	2	3	4	5	
20	Email functionalities work fine in the system.	1	2	3	4	5	
Hardware Related							
21	When GPS disabled its working with network locations service.	1	2	3	4	5	
22	If all location services are down, it does not try to enable them, but only ask user to enable it to continue.	1	2	3	4	5	
23	After install and run the application, system is stable as it was before.	1	2	3	4	5	
24	Data network is not connected all the time. But it is using periodically.	1	2	3	4	5	
25	Data usage has increased.	1	2	3	4	5	
26	Battery life does not have any noticeable effect. It is as more or less the same as before.	1	2	3	4	5	
27	Storage is not used a lot, since it periodically clear local data after upload into server.	1	2	3	4	5	

User Comments

What are the weaknesses or bugs on the current application?

What are the improvements or features need to be added into the applications?

What do you think about the application. Is it useful for the people who are interested on collecting magnetic field data?

Anything else you would like you to add to make this application a success?

.....
Date