Midterm Project

Proposal for IoT system with SAMI platform
CONTENTS

Base knowledge

Provided smart things

Midterm project
Base knowledge
• SAMI is a Data Driven Development platform with simple open APIs and SDKs to send and receive diverse data, regardless of the source.
Event

- An event is an action or occurrence recognized by software that may be handled by the software.

- Computer events can be generated or triggered by the system, by the user or in other ways.

- Event is a concept that used in not only here, but also whole computer science world.
Example of Event in Android

- Touch events
- Gyroscope events
- Battery events
- Push message events
- Etc...
Event process

- Event process is consist of "Generation", "Recognition", "Handling".
- Event is generated by some occurrence such as user’s touch or change of system elements.
- Event is recognized by operating system or event monitor.
- Event is handled by application, system, cloud, …, may all software.
Simple SAMI scenario

- User comes in his house.
- Arrival sensor in his backpack generate arrival event.
- SAMI recognize that event and signal to smart lamp.
- Lamp receive that signal and light on (handle).
Simple SAMI scenario

1. Generate Arrival Event
2. Send event to SAMI
3. SAMI 'recognize' event
4. SAMI send event to smart lamp. Lamp is a kind of handler.
5. Lamp handle that event by lighting on.
Who can do these process?

Generation
- Passive sensor
- Something that can connect to internet.
- Not-Hackable event trigger also.

Recognition
- SAMI
- Some powerful computing device.

Handling
- Something that can connect to internet but hackable thing.
- Such as Web, Mobile app.
- Pre-designed smart things.
Provided smart things
Multi-purpose sensor
Arrival sensor
Motion sensor
Outlet

- Control power of other electronic device.
- We can turn on/off power point(socket).
Water leak sensor
Smart cam
Midterm project
Proposal for IoT system with SAMI

- Submit a proposal report for IoT system with SAMI and provided smart things.
- Submitted proposal will be implemented by you as final term project.
- Detailed format will be announced later.
Rules

• Submit until 1st May, 2016 23:59:59.

• Length of report is free. So do not write meaningless sentence for long report.

• Korean / English is available. Recommend Korean….

• Recommend pdf format. But Word, Hangul is also available.
THANK YOU!!!