**Embedded Systems Development Group Meeting 2**

**Meeting Details:**

* Time: 1:00pm – 2:00pm
* Date: 07/11/13
* Location: Project room

**Minute’s taker:** Thomas West

**Meeting Agenda:**

* A discussion of the previous meeting minutes
* Assign weekly research between group members
* Decide upon a prototype to create for our December meeting
* Gather any questions that need to be asked to the lecturer
* Decide on when the next meeting will be

**In Attendance:**

**Members not present:** Alex Hobbs (permitted by group)

**Weekly Research/work delegation:**

The team has agreed to each be assigned a piece of work to do over the week and discuss what they have discovered to the group in this weekly meeting. The majority of these pieces of work the team has picked up will be for or in aid of the December prototype.

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| Name | Research area |
| Thomas West | How to send HTTP requests from the device to a server |
| Greg Masters | Research how to do the client and write pseudo code |
| Alex Hobbs | Further research into the workings of the keypad |
| Hevlain Nana | Security issues around streaming data |
| James Dibble | Infrastructure work – server side |
| Richard Clark | Comparisons of different audio streaming tools |
| Tim Norris | Encryption of system integrity & back-tracing threat analysis |

**December Prototype:**

The group discussed possible ideas for creating a prototype which included being able to talk to/receive data from the keypad, get a working kiosk together or the ability to stream audio. As all of this work will need to be completed eventually, we have decided that the best idea would be to continue with working towards this so that we can learn more in each area and discover which part of the system is going to be the most efficient to do by this time.

**Questions that arose:**

We were unclear from what the spec said as to how much we had to do in terms of a payment process on the kiosk. The specification just mentions it in the example scenario but doesn’t go into detail.

Another question that arose was whether we had to use the UWE web server/s or if we were able to use an external one. We wanted to use some techniques that wouldn’t have been available on the UWE servers.

The group come up with the idea of possibly using Bluetooth as an addition/alternative to the Wi-Fi beacon mentioned on the specification. After some research it was under the realisation that because the Wi-Fi and Bluetooth part of the chip are one, that it would not be possible to use both efficiently. We decided it was more important to use Wi-Fi.

**Follow up meeting:**

* Time: 1:00pm
* Date: 14/11/13
* Location: Library meeting room 4D27