**LogBook**

**7th October 2013**

Plan

Today I will start to create a draft for my initial report.

Action

I had started the structure of the draft and wrote the introduction, and the goals.

Reflection

I have managed to complete what I set out to do today.

**11th October 2013**

Plan

Today I will start the Gantt chart to finish the planning section of my initial report.

Action

I had started the Gantt chart by writing some of the tasks and the milestones.

Reflection

The Gantt chart has been started it will still need to be finished and brushed up which I will do over the next few days.

**12th October 2013**

Plan

My plan today will be to brush up on the Gantt chart.

Action

I have added some more tasks that are required for the project.

Reflection

I will have to write the time slots for each task and write the dependencies of the tasks next time I work on the project.

**13th October 2013**

Plan

Fill the time slows for each tasks and their dependencies.

Action

I have finished the Gantt chart.

Reflection

The Gantt chart is too big to put into the report as a whole. The chart will need to be broken down and explained.

My next task for this report is writing about the background reading, the methodology and the technologies I will use for my project.

I will do some research before I start the writing the background reading section.

**14th October 2013**

Notes

I have been thinking about the project today and the methodology I should take to create project.

I had thought about taking the waterfall methodology as it seemed better to design everything and then implement the deliverables. However, I will be testing throughout the implementation to make sure each component works. This made it clear for me that I should actually take the agile method as it will allow me to use iterations.

In each iteration I will be able to design, implement and test the component/deliverable intensively and make sure each component works before moving on to the next deliverable.

Action

Today I wrote about the methodology I will take during the project. The methodology I chose is agile.

**15th October 2013**

Today I tried to find some open source Android Applications that used Wi-Fi as the way to communicate between the phone and the computer. I used tested the application and it worked as it should. I quite liked the design of the Android application it was simple and easy to use. It has one big red rectangle where the mouse motions are captured. It is followed by two green squares underneath. Tapping the left square imitates the left mouse press and the right square imitates the right mouse press.

I’m thinking of taking a similar approach to my application, making it visibly simple and easily interactive.

**16th October 2013**

Plan

Today I will write the technology section. This section will include all the technologies I will be using to create the project. Some of the technologies I will be writing about are the Android Phone I will be using, the computer, the IDE (Integrated Development Environment) I will be using and so on.

Action

I have written most of the technology section.

Reflection

I will finish the technology section and the background reading tomorrow.

**17th October 2013**

Plan

Today I will plan to finish the initial report for tomorrow’s submission.

Action

I have finished the technology section and background reading. The initial report has been brushed up.

Reflection

I could have written some more on the background reading section if I had a little bit more time.

**22nd October 2013**

Today, I re-thought what the best way would be for my phone to communicate with the computer. I thought whether to use either Wi-Fi or Bluetooth as my choice of communication between my phone and the computer. Although I have said that I will use Wi-Fi in my initial report I might re-consider that and use Bluetooth as my way of communicating between the two devices.

Pros of Wi-Fi

* Greater range
* No extra peripherals needed
* Easily accessible

Cons of Wi-Fi

* Requires a network
* Weak connection to the network from either of the devices could cause lags or cause the app not to work at all
* Connection strength to the network can vary depending on the location and even sometimes fluctuate

Pros of Bluetooth

* Does not require a network
* Connection strength does not depend on other factors other than the distance between the two devices
* Easily accessible

Cons of Bluetooth

* Requires that both devices have Bluetooth
* Limited range, approx. 100m range

After analysing the pros and cons of both technologies I have decided to use Bluetooth as my way of communicating between the Android phone and the computer. I will need to make sure I write this change in my interim report.

Supervisor signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2nd November 2013**

Plan

Today I will try to implement a simple client-server in Java using sockets. I will send some simple messages as requests from the client to the server and the server will send back some response.

This will allow me to see what kind of difficulties I will be facing when I get to the implementation stage. When building my android, I will be streaming mouse movements and mouse clicks from the android phone to the computer as requests and the computer will respond by making those requested actions on the computer screen.

Action/Reflection

I have managed to write the code for the client. Tomorrow I will write the code the server to test out the simple client-server program.

**5th November 2013**

Plan

Today I will finish the client-server program.

Action

I have finished the client-server program and it works like it supposed to after doing a few tests.

The client can request using the outputstream and the read responses from the server using the inputstream from the socket.

Reflection

I will be planning to test the latency of the client-server using sockets and test the latency again using Bluetooth and compare both the results to see which program can communicate faster.

**11th November 2013**

Plan

Today I will start on my interim report.

Action

The structure of the report has been created.

Reflection

Next time I work on the project, I will start writing the requirements sections.

**14th November 2013**

Plan

Today I will be writing the requirements.

Action/Reflection

I have written the functional requirements for the project so far, next time I work on the project I will finish the non/functional requirements section.

**17th November 2013**

I had look at some code today of an example android Bluetooth remote control application. I think it looks harder than I thought. I will need to create some basic program implemented using the Bluetooth functionality that does something simple. For example, display a message on the phone.

**19h November 2013**

I wrote