**Supervisor Meeting Minutes**

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| Date: | 09-09-2014 |
| Time: | 7:00 PM - 8:35 PM |
| Location: | School of Information Systems Level 5 |
| Purpose: | Update supervisor on our progress, and get advice for improvements on project management/ technical difficulties |

**Attendees:**

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| Name | ✓ | Role | Reasons for Absent |
| Jason Woodard | ✓ | Supervisor |  |
| Abdul Basith | ✓ | Project Manager (PM) |  |
| Clarice Ang | ✓ | Deputy PM / UX Designer |  |
| Faris Malik | ✓ | Developer |  |
| Goh Chun Yang | ✓ | Lead Developer |  |
| Nigel Lim | 🗶 | Developer | School competition |
| Syafi Salim | 🗶 | QA / Business Analyst | School competition |

**Agenda:**

Update supervisor with our current work progress and present him the additional requirements from our sponsor. Supervisor will also review and advise us on areas of improvement.

**Discussion:**

1. Graphical charting framework - D3.js vs other charting library, does it require any reliance on library, or just using simple javascript APIs.
   1. Nvd3 – alternative for using more concise codes
   2. Google charts powerful enough for what we need
   3. To discuss with sponsor Kar Way on the possible implications (if any) of not using D3, what google cannot do instead like d3.
2. With admin, uploading the data file only for the administrator
3. Naming convention of starvation in the hospital
4. Managing the seeds in the simulator
   1. Initial, researcher will be the end users running the simulation with different parameters and instances. Leaving the seeds for the administrator to configure, for the researcher to run the simulation to run the similar test for multiple times will he get the same results?
   2. Seeds library
   3. Random number generator before each procession
      1. Random factor in the simulation is to see the different (starvation) paths.
      2. Two ways to manage the seeds –(having kar way do it) not having the unskilled person to manage the seeds
         1. Manually set the seeds, allow users to reproduce the same results. Having the function to save the seed is important in this case as well.
5. Check with sponsor if the speed of having two days for a simulation is acceptable.
   1. What does the CPU do when the simulation is running? To run the simulation in 1 mili seconds is very slow, for the processor with a few hundred ghertz. Should max out the performance of the processor.
   2. Simulation is not only about compressing the simulation time, but also to compute the things that we should track. E.g from instances T1 to T2, very different from setting them for fixed time interval. We should not have the simulation run slower than kar way’s original codes. 🡪 changing to a do / while loop for this to work
6. Data on the server is it safe? But they are run locally, not saved there.
   1. Issue is data stored (in plain text form) in the server not encrypted. Not accessible to user without access to the admin page.
   2. Consider multiple hospitals? Using the type of data file (depends on the different user settings type)
   3. Use cases
   4. Login functionality and protecting the file with the password. Would it be okay if we have it on the server now instead? We should not assume that the data cannot be on the cloud at all? 🡪 value in doing this.
   5. Not all end users will run a different data file. Maybe we can do it based on hospital, one administrator will update the data.txt file and all users under the same hospital will use this same file. We can go the extra mile to remove the reupload.
7. Prescriptive model
   1. Should it be based on the seeds or just by the average?
   2. Comparison is mainly on the number of patients and doctors parameters (same set), and which strategy will give the best performance.
   3. Averaging out the seeds to get the optimal results. Arrogate the worst-case performance, or worst starvation index to define the prescription.
      1. Have to gather what kind of data?
      2. The run would be for multiple runs? How many of them? Sample size and accuracy for the decsision.
      3. This will have to be discussed with Kar way
8. Can prescriptive be x-factor
   1. Depends on how we script this.
   2. Have to show it in the mid terms with hi-fi prototype. (spend at least 3 mins)
9. Technical complexity should be included in the mid-terms
   1. Prof will help us shape it
   2. D3 can be a choice, how we are using it. For what kind of function and uses. But not choose it because of its complexity
   3. Inheriting the existing code base 🡪 have to explain how we get from kar way’s code to our current one. Showing snnipets of the codes to show him the changes (to demonstrate the complexity)
   4. Prescriptive model can be included. Analyzing and coming out with an output with a user interface, simple enough for people to use it. 🡪 how it is made simple to use.

**Action Items:**

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| Item No | Description | Assigned To |
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