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**Iteration Plan**

**Introduction**

My Iterations will be spread over two weekly intervals. The first week (phase one) will be about the requirements gathering and design, whereas the second week ( phases two and three) will deal with the implementation and testing of the system. Phase four wil be spread throughout the iteration, with a dedicated day for it at the end. I also plan to work on two iterations concurrently, This means that as I implement the functionality for one iteration, I should be working on the planning and design work for the following one. It is important to note however, that not all of the tasks that I do will always fit into this routine. As an example, if the iteration in question involves running programs on a real clud platform, then there might not be any design work to do at all.

**Phase One**

The plan is to use Monday as a day to gather requirements for this weeks work and also to build the design documentation for this iteration’s piece of work. I should also be planning how I’m going to implement the required functionality for that iteration. In other words by the end of the phase, I should have a clear picture in my head of what I’m going to implement, as well as the rough design of how I’m going to do it. As part of this process, I also plan to create a set of acceptance tests that I can then get signed off by my project supervisor each week, so we both know what is to be delivered and by when.

**Phase Two**

Tthis will primarily be used to take the designs created in the previous phase and beginning the process of transforming these requirements into code. This does not include testing, as this will be undertaken on a different part of the schedule. During this section of the iteration, I should be careful to conform to all relevant coding style guidelines. If there is time, I will start on the testing work of Phase three.

**Phase Three**

Phase three will be the period that I thoroughly test the new functionality I’ve been developing that week. This will range from unit testing of simple components, to wider integration testing of the whole system. I will document these tests both in the form of written test plans, and also through the use of Spec2 test classes where appropriate.

**Phase five**

While I will be producing certain parts of the documentation all the time, I intend on using the remaining time to catch up on any remaining documentation and also to add some more content to my dissertation. If needed, I will also use it as an overspill day for the rest of the week’s work.