**COMP3059 Capstone Sprint 4 – Technical Requirements**

Technologies Used:

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| Technology/Requirement | Resource | Learning Plan |
| Methodology | Scrum | Known |
| Database | MongoDB | Current - Dec. 7, 2018 |
| Programming Language | Node & Javascript | Known |
| Framework | Model View Controller | Current - Dec. 14, 2018 |
| Hardware | PC | Known |

Justifications:

Scrum:

* Allows for constant updates and contact between team members.
* Everyone has some input to process
* Able to make adjustments to planning or process before it becomes a problem

MongoDB:

* Provides a more flexible and scalable database than more rigid programs, allowing client to update and/or add functionality to database without requiring complete rebuild (which they are one day planning to do).
* Simplified querying and indexing for searching or ordering data.
* Current focus of other course, allowing us to apply new and relevant knowledge to Capstone.

Javascript:

* Well known, versatile language requiring no unusual specializations to add to or alter in the future.
* Operates well with Mongo and MVC systems.
* Commonly used throughout the world, meaning there is more functionality and simplification added into libraries that can be used.
* Current focus of other course, allowing us to apply new and relevant knowledge to Capstone.

MVC:

* Allows for easy separation of major technical components, functionality, and requirements.
* Easier to divide up and work on different aspects of project without affecting other complete or in process functions.
* Allows for expansion of project scope and functionality without requiring the client to change or rebuild existing functions (which they are one day planning to do).

PC:

* Required as per project scope and client needs.