CSC3003S Capstone Project — Stage One

Risk [30 Marks]

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| Project Abbrev & Name | PTJP, Public Transport Journey Planner | Client/Supervisor + email | Jan Buys, jan.buys@uct.ac.za |
| Date | 2022/08/01 | Tutor + email | Jane Imrie, IMRJAN001@myuct.ac.za |
| Team Members | Zenan Shang, SHNZEN001 | Erin Heath, HTHERI001 | Ben Brent, BRNBEN005 |

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| **Risk Condition [1]** | **Consequence [1]** | **Cat** | **Prob [½]** | **Impact [½]** | **Mitigation [1]** | **Monitoring [1]** | **Management [1]** |
| Unable to complete certain tasks due to insufficient skills and knowledge | Delay the project completion and a rework of the whole program scope. | Development | 5/10 | 9/10 | Using the agile method to complete tasks. This method will allow us to be able to see problems earlier and adapt to them faster | Communicate with team members and separate work such that everyone is doing at something they are good at | We will have a meeting discussing about the scope of the project. Let the client know about the problem and tell them about the new possible scopes we came up with. |
| Underestimating the amount of time needed to complete a certain task | Delay the program completion and affecting all teammate’s progress. | Development | 7/10 | 7/10 | Using the agile method to complete small tasks. Having a weekly meeting to discuss and view the progress of the tasks and identify uncompleted tasks. | Using Gitlab so that team members can see everyone’s progress. Having weekly meetings to ensure that everyone knows what have been coded and identify the uncompleted tasks | We will inform the client about the delay; the team members will help each other with the problem to minimise the delay time. Allocate less work to the delayed teammate to give him/her time to catch up |
| Availability of the team members. | More time and effort will be needed to complete the tasks for the other team members. | Communication | 3/10 | 8/10 | Creating a WhatsApp group chat to keep everyone updated with their availability. Having a fixed weekly meeting to assign and remind team members to complete their tasks. | WhatsApp group chat is good for keeping team members updated, so if one is sick or away, they can inform the group through WhatsApp messaging. | We will be having an online meeting through teams to discuss the way to approach the workload. Rearrange the workload for each teammate such that the task completion time won’t be affect heavily due to unavailability of the team members |
| A computer malfunction causing unexpected losses or lost computer due to unexpected events such as water, theft, robbery… | This will result in unsaved work being lost, which will delay the project completion. | Planning to completion | 2/10 | 6/10 | Save work frequently and backup the project progress. OneDrive can be used for back up the program and Gitlab can be used to share the program among the group members. | Maintain the computer in good condition, download a good anti-virus to prevent a virus attack. | Inform the teammates about the problem, use UCT PC to continue with the work. If the malfunction is causing a delay in the project, inform the client about the situation and rearrange workload to minimize the impact on the project as a whole |
| Load shedding can cause decrease in productivity and losing our unsaved work | This will temporarily cause us to not have access to internet. Desktops won’t be able to function. | Planning to completion | 8/10 | 8/10 | Save work frequently so that load shedding won’t cause too many unsaved work to go missing. | Know when we will get load shedding and schedule our time such that load shedding won’t affect our progress | During load shedding, we could work on part of the program that we know how to code (no need for google). Or we go to a UCT venue that have a generator and WIFI is on. If unsaved work is lost due to load shedding and cannot be recovered, inform the teammate about it, and if it is severe, inform the client and rearrange the workload among the team members. |
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