**Risk analysis**

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v1.0

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| **No.** | **Risk description** | **Probability (1-10)** | **Impact** | **Possible causes** | **Possible recovery / action required** | **Prevention** |
| 1. | Hardware failure (storage disk / power supply / computer) | 3 | Potential to lose parts of the data slowing the overall project progression | Bad maintenance of the hardware. Aging of the hardware | Retrieve the latest backup copy of the data and advance from there | More frequent backups will significantly reduce the amount of work lost if such failure occurs. |
| 2. | Software failure (Microsoft office / programming software) | 5 | Potential to lose parts of written work or code, slowing the overall project progression | Defective software.  Software not up to date | Attempt to revive the last session.  Retrieve the latest backup copy of the work and progress from there | Update the software on regular basis. Test the software beforehand |
| 3. | Data not maintained properly | 4 | Possibility of data getting lost resulting in regression of the project | Lack of communication within the group. Individual members not maintaining data | Attempt to retrieve the lost data and take actions necessary to prevent the same cause from occurring in the future | Perform regular checks to see if the data has been maintained properly by other group members |

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| 4. | Alteration of initial project idea | 7 | Other parts of the program might be affected therefore extra work will be required. | Not enough initial research was done. New and improved idea emerged | Adapt the currently existing program to support the changes and update the documentation to support it | Spend time doing lots of research initially. Program smartly and efficiently allowing for easy adaptation or addition of new and improved features |
| 5. | Solution is too complex to implement | 5 | Some features of the program might have to be dispersed. | Initial idea was not analysed thoroughly | Adjust the project to make sure it is up to standard and the group does not slow the entire progress down. | Research about the possible ways of implementing the program and perform changes to the idea / initial plan in order to lower the overall solution complexity |
| 6. | Group member’s illness or injury | 3 | Group will temporarily be reduced in size resulting in slower progression and lower performance | Unrelated | Split the work evenly between the remaining of the group members. | Unrelated |
| 7. | Disagreements within the group | 6 | The Progress may be slowed down until the disagreements are solved. | One or more group members doesn’t want to follow the agreed plan. | Consult with the supervisor and try to come up with a solution together | Discuss the project thoroughly beforehand |
| 8. | Bad/Wrong time estimation | 8 | This may cause not meeting the deadlines. | Unreal expectations from individual members of the group | Help from another member of the group. | Be realistic about your abilities and skills. |
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