

Appendix A: Risk Evaluation

Risk Condition	Consequence	Probability	Impact	Mitigation	Monitoring	Management
Team members failing to complete their work allocation on time.	The project falls behind the timeline.	Low	Marginal	Using tasks scheduling softwares to assign tasks to the members	Use Gantt chart to ensure project timeline is followed	Reassigning the uncompleted tasks.
Lack of clarity of the project requirements and scope	Team spends too much time developing what is not required for the project	Medium	Critical	Ensuring meeting minutes are taken during meetings with the supervisor.	Frequent Communicating with other team members to ensure everyone understands their parts.	Scheduling a meeting with the supervisor to seek clarity for the project.
COVID-19 prevents us from doing the user evaluations.,	The user testing will not be face to face.	High	Marginal	Doing virtual user testing.	Keeping the team members updated with the regulations governing social places.	Creating ZOOM/Google meet to do user testing virtually.
Internet measuring platforms get deactivated	The project get done with old data	Low	Critical	Researching a wide range of internet measuring platforms to ensure we have a good number of them.	Constantly keep testing the platforms by visiting their sites online.	Reaching out to the internet community through our supervisor on other platforms we can use.
Theft of team members' laptops or crashing of laptops containing the code.	The team fails to deliver the project on time as rewriting the code may take time	Medium	Critical	Using version online control softwares such as github and bitbucket.	Ensuring every team member constantly commit their code to the online repo	Reverting back to the older version of the code.
Team member falls sick and eventually drops out of the project	The project lags behind the timeline.	Low	Critical	Ensuring constant communication between team members where they can air issues affecting them.	Assessing how every team member is handling their section.	Reassigning the part the member was working on to another team member.
Choosing wrong frameworks for visualization and simulation implementation	The project lags behind as more time is wasted redoing the work with the right framework	Low	Marginal	Researching the best frameworks and libraries for visualization and simulation purposes.	Constant testing of the relevance of the frameworks used with the objectives of the project.	Choosing another framework that is relevant for the project.