# Risks

Team 17:Scone Zone

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# Risks and format

- **Risk no:** A unique ID to refer to each risk
- **Risk name:** A brief description of what the risk is
- **Risk Likelihood:** How likely the risk is to occur. This uses the scale ["Low", "Moderate", "High"].
- **Risk Severity:** How severe the effect of the risk occurring would be. This uses the scale ["Low", "Moderate", "Severe"].
- **Risk Impact:** What effect the risk would have on the project should it occur
- **Risk Mitigation:** What action we plan to take to reduce the likelihood and severity of a risk happening. E.g. backing up work frequently and often evaluating the levels of risk in the project
- **Risk Owner:** Who is responsible for measuring and overseeing this risk and its <u>current</u> likelihood and severity.

# Risk table

| Risk no | Risk name | Risk Likelihood | Risk Severity | Risk Impact | Risk Mitigation | Risk Owner |
|---|---|---|---|---|---|---|
| 1 | Picked an unsuitable game engine | low | severe | • We will be unable to create a game as easily and efficiently as possible. This will lead to a poor game experience for the user and a bad quality game. | • Create a basic prototype early on that uses assets and implements basic movement<br>• Make sure to always "look ahead" before implementation to see if the requirements are feasible in the game engine | Programming team |
| 2 | Group member can no longer continue working on the project | low | moderate | • The team may be left behind schedule as the remaining members must take on the added workload which may result in a late or incomplete project | • Peer reviewing project work, clear documentation.<br>• Team members can communicate this on the discord as well as their responsibilities as soon as possible so the rest of the group can evenly and quickly split up the member leaving's work. | Anyone |
| 3 | Group member is unable to do work due to illness | high | moderate | • The team may be left behind schedule if the ill member has not been able to complete any outstanding work.<br>• It may be difficult to complete work as a team, if the ill member is not there to communicate their ideas for the development of the project<br>• Or if the team is relying on the incomplete work of the ill member to move on with the project | • Make sure all work is clearly documented and completed on time.<br>• Have regular meetings, reviewing what work has been done so that the group won't have to spend more time familiarising themselves with an ill members work<br>• In the event of illness, make sure ill group members are kept up to date with progress made. Any outstanding tasks from the ill member should be made known and split between the group to avoid falling behind schedule. | Anyone |

| # | Risk | | | Consequence | Action | Responsible |
|---|------|---|---|-------------|--------|-------------|
| 4 | Accidental loss of project data | low | severe | We may have to redo a lot of work if we have not backed it up regularly. This would result in falling behind schedule | • Back up often using git, and do as much work as possible on google drive which saves automatically <br> • Make sure each member knows how to work with git | Anyone |
| 5 | Poor design choice that has already been implemented | moderate | low | We will be left behind schedule as we would have to rewrite all the code to implement a better design <br> The player will be left with a bad game experience | • Justify all design decisions fully during the design stage before implementing them, to check their appropriateness <br> • Have periodic playtesting and checking of the various functions/ mechanics of the game | Anyone |
| 6 | Design choice that breaks one of the requirements | low | severe | Left behind schedule as we will have to pick a new design choice that does not break our requirements before implementing it | • Decide design choices based on a set of specific goals that already have the requirements in mind <br> • Check back to the fundamental requirements before deciding on design choices | Anyone |
| 7 | Misunderstandings about how the program connects together | moderate | moderate | We will be unable to complete the code as it will be difficult to write code if we are unsure on what it is we're implementing. | • Document your code. <br> • Have programmers swap the sections of code that they are working on to allow for implicit peer review whilst they work on the new section and give each individual a better understanding of the whole system <br> • Have the programming head delegate tasks to individuals stating the input/output of what they need to make and what the task needs to do <br> • Have someone who knows the bigger picture be explained by everyone what each section of code does. | Programming team |
| 8 | Unsuitable | moderate | | This will make the game | • Have thorough testing with new users to | Programming |

| # | Risk | Likelihood | Severity | Consequence | Mitigation | Responsible |
|---|------|-----------|----------|-------------|------------|-------------|
| | difficulty or AI intelligence | | | unplayable, which would lead to a poor gameplay experience for the users | • get an understanding of how different "skill-levelled" people fare against it <br> • Keep testing the AI in any new environments made or with any new features/mechanics added | team |
| 9 | Trying to implement a feature that takes too long to implement | moderate | severe | We will not have time to implement all the features needed. | • Have a good track of how much time we have, and how long it would theoretically take a feature to implement. <br> • When implementing the task, if you have come to the end of your allotted time for that feature, but haven't completed it, move onto a new task, and complete it at a later date. <br> • Keep track of how long is spent implementing something, and if something else may require your time more. | Programming team |
| 10 | Design choice is unenjoyable for user | moderate | low | A poor game experience for the user | • Keep a constant understanding when designing a feature as to how the user should feel and what they instead could be feeling <br> • Have thorough testing and user feedback on any implemented features | Anyone |
| 11 | Design choice creates inaccessible features for some people | low | severe | Poor game experience for some users e.g. if the game design does not take those who are colourblind into consideration, some features which are different may appear the same colour, which can cause frustration to the user, especially if the game relies on their ability to differentiate between them. | • Design features to allow for various disabilities / conditions. <br> • Get feedback from people with various disabilities / conditions during initial development | Anyone |