Risk assessment and mitigation

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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 current likelihood and severity.

Risk table

Risk no	Risk name	Risk Likelihood	Risk Severity	Risk Impact	Risk Mitigation	Risk Owner
←	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 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. 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
က	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. 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 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. 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 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
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 Make sure each member knows how to work with git 	Anyone

Anyone	Anyone	Programming team	Programming team
 Justify all design decisions fully during the design stage before implementing them, to check their appropriateness Have periodic playtesting and checking of the various functions/ mechanics of the game 	 Decide design choices based on a set of specific goals that already have the requirements in mind Check back to the fundamental requirements before deciding on design choices 	 Document your code. 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 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 Have someone who knows the bigger picture be explained by everyone what each section of code does. 	 Have thorough testing with new users to get an understanding of how different "skill-levelled' people fare against it Keep testing the AI in any new environments made or with any new features/mechanics added
 We will be left behind schedule as we would have to rewrite all the code to implement a better design The player will be left with a bad game experience 	Left behind schedule as we will have to pick a new design choice that does not break our requirements before implementing it	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.	 This will make the game unplayable, which would lead to a poor gameplay experience for the users
low	severe	moderate	moderate
moderate	low	moderate	moderate
Poor design choice that has already been implemented	Design choice that breaks one of the requirements	Misunderstanding s about how the program connects together	Unsuitable difficulty or AI intelligence
5	9	7	8

Programming team	Anyone	Anyone
 Have a good track of how much time we have, and how long it would theoretically take a feature to implement. 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. Keep track of how long is spent implementing something, and if something else may require your time more. 	 Keep a constant understanding when designing a feature as to how the user should feel and what they instead could be feeling Have thorough testing and user feedback on any implemented features 	 Design features to allow for various disabilities / conditions. Get feedback from people with various disabilities / conditions during initial development
We will not have time to implement all the features needed.	A poor game experience for the user	Poor game experience for some users e.g. if the game design does not take those who are colourblind into consideration, different features may appear the same colour, which can cause frustration to the user, especially if the game relies on their ability to distinguish between them.
severe	low	severe
moderate	moderate	low
Trying to implement a feature that takes too long to implement	Design choice is unenjoyable for user	Design choice creates inaccessible features for some people
ത	10	11