# Risk Assessment

## Mario GROUP 28

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#### 5(a) Introduction

How did we manage the risks?

To see the hazards that we might face, we prepared a highly extensive risk registry.
Risks can be recognised at every level of the project this manner. We enlisted the
help of the entire team to identify and prioritise any potential hazards that we believe
we may face, then assign them to different team members. We then kept the risk
register up to date with our project by updating it whenever we felt any modifications
needed to be made.

#### How did we identify risk?

• We brainstormed with the team to acquire the information we needed to both identify and resolve the risks, for example. We brainstormed as many risks as we could think of and jotted them down in our risk register. We made certain that the dangers we faced were related to the problem's core cause. So, get to the base of the problem to evaluate if the risk will have the kind of impact on your project that you need to know about. We found that trusting our intuition was helpful in minimising risk since it helped us spot unusual events that we assumed couldn't happen.

#### How did we analyse risk?

 Because you can only have so much information, analysing the risk might be challenging. So, in order to assess the risk, we used the information we had and brainstormed as best we could with it in order to identify as many relevant dangers as possible.

#### How did we track risk?

To keep track of the risk, we determined that whoever owned the risk would be
responsible for keeping track of it if it occurred and the process of its resolution if it
did. They would also inform others of this in order to keep everyone informed. We did
this by convening a series of meetings to manage the risk and ensuring that we were
completely upfront with each other so that everyone was aware of all issues that
arose.

### 5(b) Risk Register

Risk ID	Туре	Description	Impact	Likelih ood	Severity	Mitigation
R1	Technol ogy	Game engine runs slowly on customer hardware	May lead to inadequate loading times and under performance	L	М	Test on customer hardware in early stages
R2	People	Team member(s) not engaging with the work	Deadlines may not be met, possibly causing team dysfunctionality	L	М	Set multiple members on a specific task
R3	Product and project	Drastic requirements being added or changed	Will require revamping of schedule - and deadlines	L	Н	Regular meetings with customer in order to allow for new requirements to be added without heavily affecting schedule
R4	Product and Project	Data being mishandled / lost	This could lead to progress being lost, possibility of needing to restart the project	М	н	Have proper documentation for backup to be backtracked later if necessary
R5	People	Slow response from customer or team members	Lower productivity in team as specific information may be required to progress	М	М	Frequent meetings involving all members and the customer
R6	Estimati on	Miscalculation in scheduling	Delaying and panic may lead to	M	М	Plan ahead and leave ample time before deadline

			lower quality work			
R7	Estimati on	Underestimating difficulty of implementation	May lead to missing deadlines on delivering the project due to uncertainty	٦	н	Plan ahead and learn the tools in the library before implementation
R8	People	Team members being unable to come to an agreement	Less efficient workflow and team dysfunctionality can lead to slower progression	L	L	Use voting system for decision making if necessary
R9	Technol ogy	Major programming errors causing massive bugs	May lead to further delaying in schedule due to fixing bugs/errors	г.	Н	Frequent backups and weekly peer reviews in order to ensure the quality of code
R10	Technol ogy	Updates to LibGDX causing code to not work as before	Further delaying in schedule / possible restart of implementation stage	L	Н	Persist with one version of LibGDX
R11	Project	Lockdown causing communication problems as in person meetings no longer possible	May lead to people unsure on what they're doing. Teammates unable to raise concerns on the project	М	L	Arrange online meetings and develop a work schedule that does not always require members to be in person
R12	Product	Scope creep, thinking of adding too many or too complicated unnecessary features	Overcomplication as well as possibility of not completing project in timeframe	М	M	Have a priority list on what features to implement corresponding to each requirement and keep things simple
R13	Project	Lack of organisation for team members unsure what they're meant to be doing	No synced workflow inevitably leading to an incomplete project	M	M	Use a gantt chart to organise tasks and have a list for each member's tasks

R14	Product and project	Data theft from outside sources	Project ideas could be lost/stolen - Credibility of work may be lost	L	Н	Use password protected cloud drive and do not share data to any third party	
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#### 5(b) Key (Likelihood and Severity)

 L
 Low
 Green

 M
 Medium
 Orange

 H
 High
 Red

#### Justification of the Key

We chose three levels to classify severity and likelihood because it is a sufficient number of ways to signify different levels of these factors. It doesn't overcomplicate this register leading to a more efficient way of managing the risks as less time would need to be spent thinking about a large amount of levels and its validity for a specific situation.

#### 5(b) Classifications

Technology - This type of risk is related to the technology we choose to create the game and also what we have to work with in regards to development and running the actual game. Product - This type of risk is related to the final outcome of how the product works and runs. Project - This type of risk is related to the inner workings and processes of how the project runs, teamwork, management of resources etc.

Product and Project - This type of risk relates to things which would affect both the management of the project as well as things that will affect the final product.

People - This type of risk is related to things that directly affect the members of the team and their ability to work efficiently.

Risk ID	Owner
R1	Saj
R2	Joseph
R3	Hugo
R4	Hugo
R5	Joseph
R6	Saj
R7	Saj

R8	Joseph
R9	Saj
R10	Saj
R11	Joseph
R12	Hugo
R13	Joseph
R14	Hugo