Hobby Web App: Game-Time Log

# Risk Assessment

*V1.2 - Completed: 20.05.2020*

Google document: https://docs.google.com/document/d/1cA4Z6FwYA1YUrPZT8lHZ3cFjOVnNsqmx1J-tJqZlNX8/edit?usp=sharing

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| --- | --- | --- |
| Version | Comments | Date |
|  |  |  |
| V1.2 - LIVE | Review added - changes to be acted on | 20.05.2020 |
| V1.1 | Addition of review section | 13.05.2020 |
| V1.0 Completed | Initial RA | 01.05.2020 |

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## Overview

This risk assessment has been created as part of the planning process for my Individual Project - HWA: Game-Time Log. The aim of the Risk Register is to assess risk, while my Risk Treatment Plan manages it.

## Risk Register

#### **Key**

##### L = Likelyhood

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rare | Unlikely | Quite possible | Likely | Almost certain |
| 1 | 2 | 3 | 4 | 5 |

##### I = Impact

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Minimal | Minor | Moderate | Major | Catastrophic |
| 1 | 2 | 3 | 4 | 5 |

##### RL = Risk level (Likelihood \* Impact)

|  |  |  |  |
| --- | --- | --- | --- |
| Low | Moderate | High | Extreme |
| 1 - 3 | 4 - 6 | 8 - 12 | 15 - 25 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ref. | Risk | Risk Statement | L | I | RL |
| 1 | Public source code used for an attack | Any source code pushed to GitHub could potentially contain information that hackers would find useful when trying to maliciously alter the project. The source files could potentially contain hard-coded login credentials which could allow for data leaks. | 3 | 4 | 12 |
| Ref. | Risk | Risk Statement | L | I | RL |
| 2 | Testing failure | Errors in code that remain unidentified due to the scope of testing. Or code failing to pass tests set. The code would then be unable to deploy as a working application. | 2 | 4 | 8 |
| 3 | Lack of time | If I overestimate my abilities or lose track of the scope of the project, I may end up spending too much time on certain activities, which could impact the completion of the project further down the line. | 3 | 3 | 9 |
| 4 | Lack of knowledge | If I am unable to figure out a particular aspect of the project that is required to execute the MVP, or if a problem I encounter becomes too time-consuming to solve it will derail the project. | 2 | 3 | 6 |
| 5 | Technology incompatibility | If an update on any of the technology we are using (e.g. IntelliJ, Jenkins, Spring, Maven) causes a fault that results in a disruption to my CI Pipeline. | 1 | 2 | 2 |
| 6 | Losing access to resources | If my hardware (laptop) breaks, I would lose all my locally stored code. Equally, but less likely, due to network strain or some other hardware problem with servers I am unable to access GitHub or the code there is damaged and corrupted. | 1 | 4 | 4 |
| 7 | Unexpected disruption to workflow aka. mitigating circumstances | Unforeseen circumstances such as bereavement, natural disaster, or other personal health issues. | 1 | 5 | 5 |
| 8 | COVID-19 | Catching this new illness could result in becoming very unwell and unable to complete project work on time. | 1 | 3.5 | 3.5 |

## 

## Risk Treatment Plan

|  |  |  |
| --- | --- | --- |
| Ref. | Response Strategy | Objectives |
| 1 | Use stronger passwords and usernames than just “admin” or “root”, and keep them regularly updated. Create specific accounts for testing if required and keep those details private / delete accounts after test completion. | Reduce the likelihood of hacking and data leaks. |
| 2 | Have trainers on hand and my knowledgeable friends give me advice so I can work through the problem. | Reduce the likelihood of failing to complete the project due to faulty code. |
| 3 | Have a timeline set up to track progress and make regular adjustments so I can make better decisions on how to manage my time. | Reduce the likelihood of spending too much time on the project. Allow the project to be completed. |
| 4 | Use both peers and trainers to draw knowledge and experience from | Reduce the likelihood of failing to complete the project due being stuck. |
| 5 | Stick to only stable releases of software or at least check updates will not disrupt CI Pipeline. Be prepared to move to alternatives if a fault arises. | Reduce the likelihood of disruption due to incompatible technologies. |
| 6 | Regularly push to GitHub. Keep at least one local backup. | Reduce the likelihood of losing my progress with existing code. |
| 7 | Maintain a resilient mindset and have an exit strategy to cease work on the project should such an event arise. Accept this could result in a critical failure to meet the project objectives. | Reduce the likelihood of harm caused by unexpected events. |
| 8 | Follow government issued advice. Stay indoors. | Reduce the likelihood of encountering the illness and its effects. |

## 

## Post Project Review

Foreword: I aim to review this RA after submission of my presentation on 20.05.2020. If I continue to work on the project after this date I will need to check this RA is still fit for purpose.

### Review 20/05/2020

This risk assessment is repurposed from my IMS project, as a project of a similar scale and scope I felt the risks faced would be similarly applicable. However:

* The COVID-19 situation has changed since I started working remotely, and the likelihood of me encountering the illness personally has gone down (-1).
* I was confident that my lack of knowledge and lack of time would not be very likely, but I have increased the likelihood (+1) to reflect the challenge of working with unknown libraries (reflecting further by the increase of Risk Level).

### Moving forward

If other contributors are going to be involved in the project, then there will be more risks and some may only apply to certain people (eg. project owner, users, developers). **I should evaluate these additional risks before opening up to other contributions.**

## Changelog

* Addition of Post Project review & changelog documentation
* Review added with actions required.