Initial Project Risk Assessment

Likelihood of Happening

Unlikely	Possible	Likely	Certain
1-3	4-6	7-8	9-10

Impact

Minor	Moderate	Major	Extreme
1-3	4-6	7-8	9-10

Risk Rating (Likelihood * Impact)

Minor	Moderate	Major	Extreme
1-30	40-60	70-80	90-100

Risk Register 1: Initial Scores and actions							
Risk #	**Risk**	**Cause**	**Risk Event**	**Likelihood (1-10)**	**Impact (1-10)**	**Risk Rating (1-100)**	**Response strategy**
1	Lack of Knowledge & Experience	New to Java so learning as doing the project.	Knowledge gaps, unable to fix errors, incorrect used of methods. Struggle to complete project.	**8**	**9**	**72**	Research the issue and ask questions when stuck.
2	Internet Issues	Bad connectivity or lack of internet.	Struggle to commit work in a timely manner to GitHub, loss of connection to VPS terminal, unable to research missing knowledge.	**8**	**6**	**48**	Commit as often as possible.
3	COVID-19 (Global Pandemic)	This can cause illness and strain on infrastructure which will impact productivity.	Project deadline can be missed.	**6**	**9**	**54**	Maintain social distancing.
4	Poor Time Management	Not managing my time effectively can cause me to not finish the project.	Project deadline can be missed.	**4**	**10**	**40**	Keep to a schedule - plan days and allow for excess time each day to deal with any issues.
5	Loss of Work	Not having a saved copy of our work which can cause us to lose it.	Loss of work, increased time pressure.	**4**	**7**	**28**	Commit as often as possible with each new piece of functionality to minise any loss.
6	Hardware Issues	Laptop failure	Work not completed on time, project deadline missed.	**3**	**10**	**30**	Ensure a copy of work is available in GitHub to allow picking up work on a different machine.
7	Security	Weak passwords, exposing sensitive information.	Exposing sensitive files/ getting hacked	**1**	**10**	**10**	Always use .gitignore, use unqiue strong passwords for all applications.
8	Unreliable applications	Inexperience and lack of testing of work.	Software updates changing permissions and incompatiable code	**6**	**8**	**48**	Ensure a copy of work is up-to-date and available before making any upgrades. Write as many tests as able.

Final Project Risk Assessment

Likelihood of Happening

Unlikely	Possible	Likely	Certain
1-3	4-6	7-8	9-10

Impact

Minor	Moderate	Major	Extreme
1-3	4-6	7-8	9-10

Risk Rating (Likelihood * Impact)

Minor	Moderate	Major	Extreme
1-30	40-60	70-80	90-100

Risk Register 2: Final Scores and actions

Risk #	Risk	Risk Event	Likelihood (1-10)	Impact (1-10)	Risk Rating (1-100)	Analysis	Action
1	Lack of Knowledge & Experience	Knowledge gaps, unable to fix errors, incorrect used of methods. Struggle to complete project.	4 ↓	9	36 ↓	Risk was managed due to experience gained whilst coding and using free time to research any issues and ask questions where needed	Practical knowledge was gained through building the application.
2	Internet Issues	Struggle to commit work in a timely manner to GitHub, loss of connection to VPS terminal, unable to research missing knowledge.	8	6	48	Had an initial internet outtage at the beginning of the project due to works being done. All work was commited in orderly manner once internet was backup.	This risk is closed.
3	COVID-19 (Global Pandemic)	Project deadline can be missed.	6	9	54	No interuptions were caused by this risk.	This risk is closed.
4	Poor Time Management	Project deadline can be missed.	2↓	10	20	Time was well managed and used appropriately so project deadline was met.	This risk is closed.
5	Loss of Work	Loss of work, increased time pressure.	4	7	28	No loss of work occurred during the course of the project as commits were made often to ensure the most recent version was uploaded.	This risk is closed.
6	Hardware Issues	Work not completed on time, project deadline missed.	3	10	30	No hardware issues were experienced however; the code source was backed up on GitHub and an extrenal Harddrive	Risk was managed through the various backups.
7	Security	Exposing sensitive files/ getting hacked	1	10	10	Always use .gitignore, use unqiue strong passwords for all applications.	.gitignore was used correctly and sensitive files were not uploaded to GitHub. Further learning on the use of ENV variables is required for bigger projects
8	Unreliable applications	Software updates changing permissions and incompatiable code	6	8	48	No software updates were required during the course of the project and version numbers used are provided in README for other developers.	This risk is closed.
9	**NEW RISK** Pre-supplied Code Complexity	Not understanding pre-supplied base code which could cause delays.	4*	6*	24	Time was spent in the beginning to understand the basic concept of the supplied code and was able to ask questions about it.	This risk is closed.

Key	
↓	Risk lowered
*	New Risk Identified