Risk Assessment

Matrix:

Each risk has a statement to specify what exactly the issue is, a response taken to manage and avoid it, and to elaborate on the purpose of the response in relation to the objective.

These are the risk factors:

- Likelihood - how likely is the risk to come to fruition and how difficult is to avoid completely
- Impact - how much will it affect the project
- Risk Level - how important is it to avoid, taking the value of likelihood and multiplying it by the value of impact

		Likelihood				
		1): Rare	2): Unlikely	3): Possible	4): Likely	5): Almost Certain
Impact	5): Catastrophic	5): Moderate	10): High	15): Extreme	20): Extreme	25): Extreme
	4): Severe	4): Moderate	10): High	12): High	16): Extreme	20): Extreme
	3): Moderate	3): Low	6): Moderate	9): High	12): High	15): Extreme
	2): Minor	2): Low	4): Moderate	6): Moderate	8): High	10): High
	1): Negligible	1): Low	2): Low	3): Low	4): Moderate	5): Moderate

Ref	Risk Description	Cause	Risk Event	Likelihood (1-5)	Impact (1-5)	Risk Rating	Action
1	Lack of time	Poor time management	Not completing project	3	5	15	Plan thoroughly, set targets
2	Lack of experience	Most of us relatively new to programming	Failing in certain parts of the project	2	5	10	Detailed notes, ask questions, use available resources
3	Self management	Overworking & burnout	Unable to complete app	2	5	10	Regular breaks, realistic targets, ask

							team mates for help/advice
4	Pandemic	COVID-19	Illness, upheaval, infrastructure strains	2	4	8	Maintain social distancing and back up code
5	Unreliable app	Poor test coverage	Bugs, app breaks, app hard to maintain	3	4	12	Ensure at least 80% coverage, implement Selenium
6	GitHub errors	Human error	Merge error breaks master	2	2	4	Be careful when merging and make sure that unfinished features merge with the master branch
7	Security Breach	GitHub source code vulnerable to hackers	Source code is tampered with	1	5	5	Use unique passwords to prevent hacking
8 (New)	Server Error 500 and Mapping Issues	Flaws in the back-end regarding mapping	App breaking while running and needing a reset.	3	5	15	Find the root cause of any server issues quickly.
9 (New)	Pre-population	The screening table relies on entry population on application run	If they disappear, the app will lose functionality.	3	2	6	Consider changes which could affect entry population carefully
10 (New)	MongoDB	Relevantcodes dependency causes an error regarding MongoDB which has no tangible effect.	It may cause problems down the line as the scope of the project expands.	2	1	2	Find a solution to this problem and/or monitor the issue closely.