Risk Matrices

| | Negligible | Minor | Moderate | Major | Catastrophic |
|---|---|---|---|---|---|
| Very Unlikely | Low | Low | Low medium | Medium | Medium |
| Unlikely | Low | Low Medium | Low medium | Medium | Medium High |
| Moderate | Low | Low Medium | Medium | Medium High | Medium HIgh |
| Likely | Low | Low medium | Medium | Medium high | High |
| Very Likely | Low medium | Medium | Medium high | High | High |

| | Risk | Statement | Response | Objective | Control Measures | Likelihood | Impact | Risk Level |
|---|---|---|---|---|---|---|---|---|
| 1 | Internet outage | Loss of access to Jira, GitHub, Teams, Mongo Atlas | Continue to work locally, making local commits. Use alternate locations for internet e.g. libraries, internet cafes | To keep the project on schedule and minimise delays. | Look into internet alternatives beforehand incase internet does go down. | Unlikely | Moderate | |
| 2 | Team member falls ill | Unable to continue working and contribute their part of the work | Inform trainer and rest of the team members. Reassign the tasks to other team members. | To ensure all tasks can still be completed. | Have a premade contingency plan. Avoid burnout by taking breaks. Eat and sleep well. | Moderate | Moderate | |
| 3 | Team members local machine stops functioning | Unable to contunue working on the project and could potentially lose work. | Inform the team. Source a new machine and clone the github repository. Reassign tasks until the team member sorts out a new machine | To ensure minimal effect to the overall progress of the project | Push commits to github regularly. Scope out possible alternative machines or shops with fast delivery | Unlikely | Moderate | |
| 4 | Github server goes down | Issues pushing to github as the server is down. | Continue working on the project locally and push once the issue is resolved. Keep an eye on the github status updates. Ensure constant communication as a team so all team members are aware of the updates being made. | To ensure progress continues to be made. Constant communication to minimise merging errors when merges are eventually made on github. | Add commit and push to github regularly to ensure that the repository is as up-to-date as possible. | Unlikely | Moderate | |
| 5 | Poor Risk Management | An unidentified risk occurs that could jeopridise the overall project | Identify potential risks thoroughly, calculating the likelihood of each and carefully monitoring risks. | To ensure there is minimal effect to team productivity should a risk occur | Identify potential risks thoroughly and ensure the likelihood of each risk is calculated and identified | Very Unlikely | Low | |
| 6 | Incomplete code testing | Inability to test written code due reasons such as lack of time | Work overtime/manage time to complete task and ensure unit testing works | To ensure team all tasks are completed successfully and | Ask for help from peers/trainers if struggling with tasks that may set myself back/take longer to execute | Moderate | Moderate | |
| 7 | Jira server goes down | Issues tracking project work due to Jira server problem | Contiune working with the project and update Jira board once Jira is back up and running. Ensure constant communication between the team so that all members are up-topdate on project progress. | To ensure the team keeps track of the project progress. | Consider saving a local copy of the Jira board so it is possible to track the project locally until Jira is back. | Unlikely | Minor | |
| 8 | Accidental file/data deletion | A team member accidentally deletes a file or data needed for the project | Check for backups on GitHub. See if it is possible to recreate the file or data. | To be able to continue working on the rest of project | Push files to Github more regularly. Keep a copy/backup of the data in the cloud or on another machine | Unlikely | Minor | |
| 9 | Missing the deadline for the project | Potentially fail the project. Miss out on marks if partial miss. | Allocate more free time for the project | To spend more time on the project and help complete on time. | Create and follow a schedule. Try to complete the project earlier than planned so that there is time to submit if there are technical issues. | Moderate | Moderate | |
| 10 | Unauthorised access to our work | An unauthorised user is able to gain access the project files. | Update all current passwords to protect accounts from further access e.g. Jira | To restrict any further access to any team member accounts. | Lock computers when away from the desk. Regularly change passwords. Potentially password protect files so unauthorised users cannot access the file data. | Very Unlikely | Moderate | |
| 11 | Force Majeur | An acute medical or other serious issue could mean significant damage the ability of one or multiple team members to comlpete it. | Redistribute work among other teams members if possible or complete MVP as early as possible | To minimise ensure an MVP is available should project be compromised in anmy way. | Make back-up plans such as attempting to complete all issues to an MVP standard with debugging and enahncements coming later. | Very Unlikely | Major | |
| 12 | Unable to understand and solve an error | Run into an coding error e.g. in the console, and unable to understand and resolve the issue, therefore holding up the project | Research online to find others that have ran into the same issue. Ask the trainer for help | To be able to understand the error and resolve it so we can continue with other parts of the project | Review previous project for similiar errors in the past. Make sure there is a way to contact a trainer for help. | Very Likely | Minor | |
| 13 | Private details pushed to GitHub | MongoDB credentials would be accessible to anyone on GitHub meaning anyone would be able to access our data e.g. customer info | Move the details into a file that will not be pushed to GitHub. Change the log in details for MongoDB | To stop more users from accessing the database details. To also block access for anyone who did manage to see the credentials. | Create an env file that all team members store on their local branch and won't be pushed to GitHub | Unlikely | Major | |
| 14 | MongoDB Atlas goes down | If the server goes down, the website wouldn't be able to retrieve data from the cloud database. Images wouldn't render and functionality would be limited | Continue working on the front end of the website. If the server is down for a longer period, we would consider using a local database backup. | To continue working on our project while the server is down. | Creating a local backup so if MongoDB Atlas was to go down, then we can import the data into a local database. | Very Unlikely | Major | |