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| Description of Risk | Probability of Occurrence | Impact | Action | Final Analysis |
| Poor planning. | **MED:** Despite, having started planning in advance, unforeseen circumstances could occur. | **HIGH:** Lack of planning can cause the downfall of the project. | Timely construction of a detailed plan, creation of a Trello table | Starting early and working incrementally reduces risk of failure. |
| Lack of familiarity with technologies. | **HIGH:** Learning technologies and utilising them appropriately takes a long time, therefore can hinder proper planning. | **HIGH:** Not being able to plan how long leaning and applying a technology would take can be detrimental to successful project delivery. | Good planning and spending as much time as possible familiarising myself with the technologies. | Utilisation of tutorials and documentations of technologies I need to use was beneficial. |
| Hardware issues. | **LOW:** A sudden failure of laptop or server can setback progress. | **MED:** The impact can be severe as it can cause loss of progress and prevent from progressing further. | Creating backups, conducting work on separate Virtual Machines and committing progress to Github. | Creating backups, uploading to Github and using a VM instead of a local service is beneficial. |
| Unrealistic initial plan. | **MED**: Having little experience can mean the initial plan is unrealistic (too simplistic, too complicated, or entirely unachievable) | **MED:** The successful execution of the project would be affected. | Making sure I consult with our tutor and compare ideas with the rest of the course. | Collaboration eliminates risk of setting unrealistic goals. |
| Health issues. | **MED**: Flu season and spending every day in a room full of various people increases the chance. | **HIGH:** Due to the fact that it is a Solo project, the only person responsible for completing it would be indisposed and therefore the progress could be set back days. | Planning for unforeseen circumstances and planning for possible downfalls. | Keeping healthy and hygienic is vital. |
| Incompetence errors. | **LOW:** Major errors, detrimental to the security of the project could be made accidentally, such as posting your secret keys/ private keys on a public platform, or accidentally deleting important elements of your project such as your entire database the night before the deadline. | **MED:** Accidents caused by incompetence always seem too outlandish, however happen way more often than people would like to admit and can cause serious damage. | Learning what the repercussions are of each action that is undertaken and being cautious when posting sensitive information on public platforms. |  |
| Issues when running tests | **MED**: Lack of familiarity with Pytest and generally having very limited experience with testing can cause great lack of ability to test the application | **MED:** Testing is a key part in TDD, therefore completing it successfully is essential, and not being able to test sufficiently can cause unforeseen errors not only in the application but also when presenting it. | Familiarising myself with the notion and practice of testing through tutorials and documentation. |  |