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| **Identification** | | | | **Analysis** | | | | **Planning** | | **Monitoring** | |
| **ID** | **Hazard** | **Category \*** | **Type \*\*** | **Outcome** | **Probability \*\*\*** | **Timing** | **Severity \*\*\*\*** | **Avoidance** | **Contingency** | **Analysis Indicators** | **RPN**  **(PxSxAI)**  **\*\*\*\*\*** |
| 1 | Project was not what the supervisor was looking or not substantial enough | Project | Organisational | Will not get as high as a result as wanted | Moderate | During project | Catastrophic | Continuously communicate with supervisor to go over current progress | Try to get closer to what the supervisor wants to try to recover any possible marks lost | Current opinions of the supervisor | 224  (4x8x7) |
| 2 | Underestimating how much time it would take to develop the project | Product | Estimation | Incomplete product | Moderate | End of planned work schedule | Catastrophic | Plan a work schedule I believe fits the time given | Build in increments so the last implemented feature is still complete | Current time in comparison to work schedule | 200  (5x8x5) |
| 3 | Lack the skills needed to develop specific features of the project | Product | Estimation | Incomplete / poor quality product | Low | During software implementation | Catastrophic | Plan features I believe I have the skills to complete | Scrap the feature, possible replacing it with a different feature, or try to learn the skills needed to implement it | Work planned vs current skills and current test results | 120  (3x8x5) |
| 4 | Overestimating how much time it would take to develop the project | Project | Estimation | Need to implement features that were not planned | Moderate | During software implementation | Serious | Plan a work schedule I believe fits the time given | Implement more features to the project, rolling back to a previous software version if they don’t end up fitting | Current time in comparison to work schedule | 100  (5x4x5) |
| 5 | Unable to find users for my guerrilla usability testing | Project | People | Unable to complete my guerrilla usability testing stage | Moderate | During guerrilla usability testing stage | Tolerable | Try to find users early on so there is more time to find testers | Scrap global testing stage or replace with another major testing method | Current testers found compared to time left | 96  (4x4x6) |
| 6 | May attempt to add extra features that originally weren’t planned for | Project | Requirements | Extra time may be taken, and feature may not fit as it was not planned for | Low | During software implementation | Serious | Try to plan all ideas of features before work on the implementation or don’t add new feature | Revert to a previous version of the product if it doesn’t work or try to plan a new time schedule for future increments if need to | Ideas of possible new features | 90  (3x6x5) |
| 7 | Unable to connect the internet for any given reason | Project | Technology | Unable to work on email server related features | High | During software implementation | Tolerable | Plan work accordingly to known times without internet access | Work on non-internet related features during that time if possible | Known times without internet access | 90  (9x2x5) |
| 8 | Features implemented don’t actually fit the aim that is to be achieved or do not work correctly | Product | Requirements | Quality of the product is not as intended | Low | During software implementation | Serious | Plan features I believe fit the aim it is intended for and test the code | Use and frequently commit to a git repository so can roll back to a version that did not contain the feature or to a working version | Current state of the product and test results | 84  (3x7x4) |
| 9 | Unable to implement a connection to email account provider host into the project | Product | Requirements | Reduce options for email accounts users can use | Moderate | During software implementation / After product release | Serious | Provide enough time to figure out a way to implement them | Continue to add as much email accounts as possible to reduce the amount of email accounts users can’t use | Issues with connecting to email host | 84  (2x6x7) |
| 10 | Failure of work device resulting to a loss of time and work | Project | Technology | Loss of time to get new hardware and to redo/get back work | Moderate | During work schedule | Catastrophic | Take care of work device as much as possible | Have a back-up device and a back-up of work so not much time is lost | Current state of work device | 72  (4x9x2) |
| 11 | May become ill or injured | Project | People | Quality of work may reduce during this period or unable to work at all | Moderate | During project | Serious | Look after health as best as possible | Provide enough time for each increment to allow time off or provide more time to focus on something if illness affects work rate | Current health | 70  (7x5x2) |
| 12 | Poor choice of methodology / combination of methodologies to use | Project | Requirements | Organisation of the project is messy | Low | During software methodology | Serious | Plan a methodology that best fits the way I wish to tackle the project | Have a back-up methodology that I could follow, moving work from the current methodology to the new one as best as possible | Current performance using the current methodology | 70  (2x5x7) |
| 13 | Work device is too fast compared to average user devices to accurately test loading times | Product | Technology | Users may have loading time issues that were not noticed during production | Low | After product release | Serious | Make sure to optimise code to reduce loading times as best as possible | Try to test on other devices that are known to be slower than the work device | Current code | 63  (3x7x3) |
| 14 | Need to take time to sort out personal/family issues or focus on other university work more than planned | Project | People | Time is reduced to work on the project during this period or unable to work at all | Low | During project | Serious | Plan work accordingly to known times when dealing with these issues | Provide enough time for each increment to allow these effects on work time | Current personal / family state or university work | 60  (3x5x4) |
| 15 | Prototype solutions do not work on the main project | Project | Tools | Have to spend time to think of new solutions | Low | During software implementation | Serious | Plan a project that will allow transferring of solutions from the prototype | Plan possible back-up solutions | Issues with the prototype solutions | 54  (3x6x3) |
| 16 | Unable to establish a connection to the email provider popups | Product | Requirements | Reduced ease of logging in with these selected account | Moderate | During software implementation / After product release | Tolerable | Research how account popups work in other email services | Scrap the popup and make sure the account can be logged in the normal login page | Issues connecting to the popups | 45  (5x3x3) |
| 17 | Work device is too slow compared to average user devices to accurately test loading times | Project | Technology | Downtime waiting for things to load | Low | During software implementation | Serious | Make sure to optimise code to reduce loading times as best as possible | Find a faster work device if possible | Current code | 36  (3x4x3) |
| 18 | An email provider changes the method of connection e.g., added application password | Product | Technology | Unable to connect to the email provider’s host server | Low | After project release | Moderate | Keep update with any change email providers plan | Make sure to make the change needed or add a message stating a sudden error could be due to now needing an application password | Known times of email provider changes | 28  (2x7x2) |
| 19 | An email host server is down so unable to access the related addresses’ emails | Project | Technology | Unable to work on email server related features using that email address | Low | During software implementation | Tolerable | Plan work accordingly to known times without email server access or test another provider | Work on non-email server related features during that time if possible or use a different email server | Known times of email server outage | 12  (2x3x2) |

\* Business, Project, Product etc

\*\* Estimation, Organisation, People, Requirements, Technology, Tools etc

\*\*\* Low (1-3), Moderate (4-7), High (8-10) etc

\*\*\*\* Tolerable (1-3), Serious (4-7), Catastrophic (8-10) etc

\*\*\*\*\* Risk Priority Number is the product of the probability of the risk occurring from 1-10, the severity of the risk from 1-10, and how obvious the risk could occur before each sprint based on the analysis indicators from 1-10 (i.e., Probability x Severity x Analysis Indicators)