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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Identification** | | | **Analysis** | | | | **Planning** | | **Monitoring** | |
| **Hazard** | **Category** | **Type** | **Outcome** | **Probability** | **Timing** | **Severity** | **Avoidance** | **Contingency** | **Analysis Indicators** | **RPN\* (PxSxAI)** |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |
| May need to take time to sort out personal or family issues | 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 or family state | 45  (3x5x3) |
| 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) |
| 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) |

\* 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 increment based on the analysis indicators from 1-10

