Risk Assessment

# Key

## Likelihood

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rare | Unlikely | Possible | Likely | Certain |
| 1 | 2 | 3 | 4 | 5 |

## Impact

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Negligible | Minor | Moderate | Major | Extreme |
| 1 | 2 | 3 | 4 | 5 |

## Risk rating (likelihood \* impact)

|  |  |  |  |
| --- | --- | --- | --- |
| Low | Moderate | High | Extreme |
| 1-3 | 4-6 | 8-12 | 15-25 |

# Risk register 1 – Initial scores and actions

Identification of risks along with scores and actions required to mitigate them.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk  Description | Cause | Risk  Event | Likelihood  (1-5) | Impact  (1-5) | Risk  Rating | Action |
| 1 | Lack of time | Improper time management | Incomplete project | 2 | 4 | 8 | Plan daily and adhere to agile development schema. |
| 2 | Self-management | Overworking / prolonged periods of sitting | Worsening of sciatica | 4 | 4 | 16 | Follow prescribed physical therapy treatment – take managed breaks. |
| 3 | Unreliable services | Github / GCP service interruption | Unable to access said service | 1 | 3 | 3 | Ensure local repository is updated. Host a local MySQL instance in case of interruption. Keep checking for scheduled maintenance. |
| 4 | Unreliable application | Not enough tests | Application is not as easily maintainable | 3 | 4 | 12 | Set aside days specifically for test – ask for help where needed. |

# Risk register 2 – Midpoint scores, updates, and actions

Follow up and update in the middle of the project to review progress and reassess the risks.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk  Description | Likelihood  (1-5) | Impact  (1-5) | Risk  Rating | Update | Action |
| 1 | Lack of time | 3 ↑ | 4 | 12 | Additional training has compounded time issue. | Remained calm while incorporating this into current daily schedule. |
| 2 | Self-management | 3 ↓ | 4 | 12 | Pain from sciatica has somewhat lessened. | Continue with physical therapy treatment and managed breaks. |
| 3 | Unreliable services | 1 | 3 | 3 | No scheduled maintenance from either platform. Disruption has not occurred. | Continue updating local workspace. Keep tabs on scheduled maintenance from either platform. |
| 4 | Unreliable application | 3 | 4 | 12 | JUnit tests have been semi-implemented into the DAOs. Awaiting training on Mockito to continue with controllers. | Invest time in other areas, such as full completion of the application backend. |

# Risk register 3 – Final scores, analysis, and actions

Analysis performed at the end of the project

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk  Description | Likelihood  (1-5) | Impact  (1-5) | Risk  Rating | Analysis | Action |
| 1 | Lack of time | 3 | 4 | 12 | Several hours were lost from addition training, such as Mockito. However, this was necessary for the project. | No action. |
| 2 | Self-management | 4↑ | 4 | 16 | Initially, I was working standard working hours and taking breaks regularly. This led to an ease of symptoms and a healthier mindset.  However, nearing the close of the project, the slight lack of time to deliver the project clouded my judgement, leading to a worsening of my symptoms yet again. | Stick to initial plans with more conviction.  Use devices (home-hubs etc) to set reminders. |
| 3 | Unreliable services | 1 | 3 | 3 | This has not been a factor whatsoever. However, it is still good to plan for such occurrences. | This risk is closed. |
| 4 | Unreliable application | 3 | 4 | 12 | Some material was delivered slightly later than expected – a full working application was implemented but I had not yet learnt the required technologies to test it effectively. | Ask for material upfront or work from community ahead of training. |