Risk Assessment

**Values**

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)

|  |  |  |  |
| --- | --- | --- | --- |
| Low | Moderate | High | Extreme |
| 1-5 | 6-10 | 11-15 | 16-25 |

Risk register 1 – Initial scores and actions

identifying risks and the actions that are required to mitigate them.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk Description | Cause | Risk event | Likelihood  (1-5) | Impact  (1-5) | Risk rating | Action |
| 1 | Lack of time | Time management is improper | Project incomplete | 2 | 4 | 16 | Plan daily and adhere to agile development schema. |
| 2 | Self-Management | Overworking/working and sitting around for long period of time | Back and neck pain, as well as eye strain and headache. | 4 | 4 | 6 | Take breaks, keep hydrated and move around during breaks. |
| 3 | Unreliable services | GCP/Github Service interruptions | Unable to access or crash of suggested services | 1 | 3 | 6 | Ensure local repository is  updated. Keep checking for scheduled  maintenance. |
| 4 | Unreliable application | There are not enough tests | Application not easily maintained | 3 | 4 | 12 | Sprint plan tests so you can test on specific times and asks for help when needed. |
| 5 | Loss of work | Crash of device/accidental work loss | Devices crashes and lose the work. Deletes wrong folders. | 3 | 5 | 14 | Keep backup copies of work, update the Git Repository often. |

Risk register 2 – Midpoint scores, updates, and actions

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk Description | Cause | Risk event | Likelihood  (1-5) | Impact  (1-5) | Risk rating | Updates | Action |
| 1 | Lack of time | Time management is improper | Project incomplete | 3 | 4 | 18 | Extra training has affected project time. | Stay calm and stick to the current daily plan. |
| 2 | Self-Management | Overworking/working and sitting around for long period of time | Back and neck pain, as well as eye strain and headache. | 3 | 4 | 4 | Less pains and other discomforts. | Continue with the same actions. |
| 3 | Unreliable services | GCP/Github Service interruptions | Unable to access or crash of suggested services | 1 | 3 | 6 | No interruptions have occurred. | Continue checking for scheduled  maintenance. |
| 4 | Unreliable application | There are not enough tests | Application not easily maintained | 3 | 4 | 12 | JUnit is being implemented into the DAOs, Mockito training will begin soon. | Continue working on other areas while trying to finish off JUnit. |
| 5 | Loss of work | Crash of device/accidental work loss | Devices crashes and lose the work. Deletes wrong folders. | 3 | 5 | 14 | No issues yet. | Upload work on to GitHub. |

This is a follow up and update during the implementation of the project and reassessing the risks.

Risk Register – Final scores, analysis, and actions

Analysis performed at the end of the project

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ref | Risk Description | Cause | Risk event | Likelihood  (1-5) | Impact  (1-5) | Risk rating | Analysis | Action |
| 1 | Lack of time | Time management is improper | Project incomplete | 5 | 5 | 20 | Lost work, so need to finish the work within few hours. | Stay calm and do as much as possible. |
| 2 | Self-Management | Overworking/working and sitting around for long period of time | Back and neck pain, as well as eye strain and headache. | 4 | 4 | 20 | Followed a good working standard, took appropriate breaks. However, loss of work clouded my working standard and affected me physically and mentally. | Stay calm and use the resources possible to maintain a healthy mindset and body. |
| 3 | Unreliable services | GCP/Github Service interruptions | Unable to access or crash of suggested services | 1 | 3 | 6 | Not been a factor but is something to always keep in mind. | Risk is closed. |
| 4 | Unreliable application | There are not enough tests | Application not easily maintained | 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 the work upfront or work form the community ahead of training. |
| 5 | Loss of work | Crash of device/accidental work loss | Devices crashes and lose the work. Deletes wrong folders. | 5 | 5 | 22 | Accidentally deleted a folder resulting in losing majority of the work. Needed to be more careful and should have uploaded the work to GitHub. | Informed the training and working on the project to finish much of it as possible. |