IMS Risk assessment - start

# Key

**Likelihood Effect**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Never | Rare | Sometimes | Often | Constantly |
| 1 | **2** | **3** | **4** | **5** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| None | Minor | Moderate | Major | Severe |
| 1 | **2** | **3** | **4** | **5** |

**Risk Rating**

|  |  |  |  |
| --- | --- | --- | --- |
| Low | Medium | High | Critical |
| 1-3 | **4-10** | **11-15** | **16-20** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Risk | Cause | Effect | Likelihood | Effect | Risk rating | Action |
| 1 | Not completing on time | Lack of or incorrect planning and preparation | Producing incomplete product | 4 | 5 | 20 | Practice technologies was struggling with and utilise JIRA to plan and complete tasks. |
| 2 | Knowledge of JAVA and Software development techniques lacking | Lack of experience | Inability to meet project requirements for MVP | 4 | 5 | 20 | Use time over Christmas holidays and in the evenings to go over concepts and practice writing code, utilise trainers and google. |
| 3 | Trouble with SQL database | Incorrect setup for schema and GCP connection issues | Product failure if cannot access database or could result in faulty functionality | 3 | 5 | 11 | Ensure understand the entity relationships before constructing architecture in JAVA, make sure GCP instance can connect using appropriate .JAR file. |
| 4 | Bugs in code | Junit testing not done or not enough coverage | May result in unanticipated or unasked for behaviour | 4 | 4 | 17 | Days should be left at the end of the project to test the code and ensure it has the required 80% coverage. |
| 5 | Poor usage of version control | Incorrect usage causing work to be lost or causing work to be misplaced or not pushing enough and losing valuable work | Can affect time management of a project and could impact ability to complete other aspects of project. | 3 | 3 | 12 | Utilise the main-dev-branch approach. Make sure to push after each session. |
| 6 | Technical issues | Problems with faulty laptop | Difficulty with working on eclipse or difficulty connecting to online instance | 3 | 5 | 7 | Use USB to backup files and push to remote repository often so work is not depending on laptop maintaining integrity. |