RMIT UNIVERSITY

RISK REGISTER

Project: YaMa
Project No: V3.0
As At: 29/05/2022

No	Description	Impact	L'hood	Owner	Mitigation Strategies	Contingency Plan
1	AWS outage or Cloud server down (e.g. denial of service)	High	Low	SM (Jacob Pyke), David Ceccato	· Backup cloud server configuration · Migrate to alternative cloud server	· Focus on service provider update · Communicate with users of updates · Do the migration · AWS already automatic load balancing
2	MongoDB server slows down due to high user uptake and performance degradation	High	Low	David Ceccato	Follow best practice guidelines for performance. https://www.mongodb.com/basics/best-practices	Increase the load balancing limit
3	MongoDB outage or database down	High	Low	MT (Reza Soltanpoor), David Ceccato	DB is backed up on storage separate from the DB server and automated database recovery/ rebuild process in place.	Use the automated recovery system
4	Networking issue with dropping connections	High	Low	MT (Reza Soltanpoor), PO (Stephen Patrikios)	Replicate service for high demand, prioritise traffic and mitigate with engineers.	Increase the geographic load balancing limit
5	JWT authentication with long expiry times can be used to pose as another user. (Web security vulnerability such as Cross-site request forgery (CSRF) allows an attacker to induce users to perform actions that they do not intend to perform.)	High	Low	David Ceccato	· Use Cross-site request forgery (CSRF) protection and refresh tokens. · Keep token expiry date short and rotate them often. · Remove the token from the client · Create a token blacklist	Allow the user to change an underlying user lookup ID with their login credentials. Use https only cookies.
6	Intentional or unintentional leak of sensitive or confidential data	High	Low	Whole team	· Use password salting and hashing, JWT authentication. · Rotating password regularly · Encrypting database · Staff training and cybersecurity audits	· Report and proceed investigation against it with cyber-crime. · Contact affected user and change passwords immediately. · Investigate the cause and fix the problem.
7	Unable to access the resources to complete the project within the timeframe due to pandemic.	High	Low	Whole team	Migrate to Cloud 9 to develop on the cloud rather than locally.	Prepare remote access to a specific folder on each team member's local PC in order to access work that may not have been able to be shared using the usual channels.
8	Added workload or time requirements because of new direction or policy	Medium	High	SM (Jacob Pyke), PO (Stephen Patrikios)	Implement a policy of written approval for changes of scope in the project. Avoid adhoc coding practices.	Escalate to product owner with assessment risk and impact of change.
9	Developer's work has delays due to illness or personal issues	Low	High	SM (Jacob Pyke), PO (Stephen Patrikios)	Avoid over reliance on individual members. Adhere to scrum best practices.	Escalate to product owner and implement on amended schedule.
10	Cost overruns due to inefficiency or rework	Low	Medium	SM (Jacob Pyke), PO (Stephen Patrikios)	Avoid adhoc coding practices.	Weekly meetings to be held between product owner and Client to report on weekly spend, and work status, including forward looking assessment of risks to be considered.