

Description	Evaluation	Likelihood (/5)	Impact Level (/5)	Responsibility	Response	Control Measures
Application's virtual machine goes down	Application is no longer online	Low (1)	High (5)	Google Cloud Platform	Duplicate the infrastructure on a another platform	Use infrastructure as code to quickly recreate machine and store all code in VCS
Database under attack and is breached	Can prompt attackers to access personal data such as email and password	Low (1)	Medium (3)	Ram Nada	Users password can be protected by hashing before being stored on the database	Inform users of the data breach via email as that allows the users to change the their password if the same password is used for other services. Take the database offline to prevent further loss of data. Implement backend code to prevent SQL injections
Database deleted by hackers	Hackers could use SQL injections to drop databases	Low (1)	Low (1)	Ram Nada	Using VM terminal to rebuild the database infrastructure via SQLAlchemy as it would be fast to implement	Back up database on a different machine regularly so it can be accessed in case of data loss. Incase of complete data loss, let the user know via homescreen to register again.
HTTP traffic is monitored by hackers	Information sent via HTTP can be intercepted and monitored making the connection between machines and the cloud network insecure.	Low (1)	High (5)	Ram Nada	Inform users of the data breach via email as that allows the users to change the their password if the same password is used for other services.	Encrypting the network connection by setting up a HTTPS
SQL database goes down	The website will no longer be functional as the SQL database is shut down	Low (1)	High (5)	Google Cloud Platform	Setup new SQL database and find out what caused the problem to prevent the same issue reccuring	Have a backup SQL ready incase if the database shuts down and findout the reason for shut down
Web server goes down	The website will no longer be functional as the VM running the Flask web server is shut down	Low (1)	High (5)	Google Cloud Platform	Setup new VM server again and find out what caused the problem to prevent the same issue reccuring	Have a backup VM ready incase if the first one shuts down
Broken version deployed onto production	Implemented product may have bugs or missing requirements	Medium (2.5)	High (5)	Ram Nada	Use a version that is more stable	Automate the test perior to any deployment and restrict access to production branch