Risk Assessment for Social Gaming Project

Risk	Description of Risk	Likelihood of	Impact of risk	Severity	Owner	Mitigation action
	Problems the risk could cause			*Rating based on impact & likelihood*	*Person who will manage the risk*	*Actions to reduce the likelihood of risk and to solve the risk if it occurs*
Leakage of data (exposure of details)	If passwords or other important information is not stored or hashed properly it can cause a leakage of data and exposure of sensitive details.	LOW	HIGH	MEDIUM	Naserul Islam	Hash passwords so they cannot be easily accessed and readable by hackers. Advise users on what requirements are needed for a secure password.
Unmanaged sensitive data	If databases that contain sensitive and confidential data are unmanaged they can be exposed to threats if the required controls are not implemented.	MEDIUM	HIGH	HIGH	Naserul Islam	Keep sensitive data managed and maintained.
Loss of data (deletion)	If important data is accidentally deleted or deleted by an attacker it will cause a problem with the system and will remove important information.	LOW	HIGH	MEDIUM	Naserul Islam	Keep an offline backed-up version of the database in a secure location.
Database is attacked (e.g. SQL Injection)	Injection attacks hit databases and give the attacker unrestricted access to an entire database.	LOW	MEDIUM	MEDIUM	Naserul Islam	Ask the user to not use a commonly used password to avoid getting hacked easily.
SQL Database Server is down	If the server holding the SQL Database is down then users will struggle to log in and get their information.	LOW	LOW	LOW	Google Cloud Platform	Bring the website down and have an SQL database back up. Contact GCP about the situation and see how this can be avoided in the future.
Web Server is down	If the web server containing the virtual machine is down then users will not be able to log in to their accounts and the application will not work.	LOW	LOW	LOW	Google Cloud Platform	Spin up a new VM and install all necessary files to run server through Git. Contact GCP about the situation and see how this can be avoided in the future. If problems continue use another cloud platform to spin a VM.