Threat Modelling

Defence Ventures

- 1. What are we building ShieldX: A secure defence software that benefits both military and civilian sectors, where it acts as a solution of providing barriers of security for defence organisations' systems.
- 2. What can go wrong Unknown threats that aren't registered with ShieldX can slip through and cause problems with organisations' systems.
- 3. What are we going to do about it Regularly record newfound threats to provide solutions and prevent attacks on systems
- 4. Did we do a good job -

Defence Ventures Risk Treatment Plan

Risk	Risk	Risk	Likelihood	Impact	Impact	Status
ID	Description	Treatment				
1	An attacker	The	3	4	7	Mitigated
Spoofing	could send	management				
attack	a phishing	system will				
(Spoofing)	email or a	recognise this attack				
	spear phishing	and filter it				
	attack to try	out sending a				
	and gain	report to a				
	access to	user.				
	the system					
2	An attacker	Monitor	3	3	6	Mitigated
Wrongful	may try and	where the				
request of	request	user is				
data	data from	requesting				
(Information disclosure)	the database	data from, if its not an				
disclosure	when not	approved IP				
	having	cancel the				
	permissions	request. Also				
	to do so, to	ensure that it				
	gain	is from an				
	privileged	employees				
	information	account				
7	A	Cive a vesse	2	7		NA:N: make -
3	A user may	Give a user	2	3	5	Mitigated
Access to too	access more	the				

much information (Elevation of privilege)	data than they need allowing them to have too much control over a system	minimum amount of permissions to be able to do their job				
4 Account breach (Spoofing)	The user could possibly modify the system if they have enough privileges.	Appropriately authorise the user and introduce integrity checks (such as Hashes and Digital Signatures)	4	5	9	Mitigated
5 Manipulation of data (Tampering)	An attacker abuses the application to perform unintended updates to a database.	Implement appropriate authorisation measures and introduce integrity checks, such as Hashes	3	3	6	Mitigated
6 DDOS attack (Denial of service)	Attacker launches a denial of service attack preventing the network from being used	Network monitoring to ensure packets are from an authorised user	1	2	3	Mitigated
7 Repudiation attack (Repudiation)	An attacker manipulates logs to cover their actions.	Ensure appropriate authorisation is put in place, check audit logs and timestamps	2	3	5	Mitigated