	Security Concerns and their Solution: an Overview								
	Goa	al	Anti-Goal	Security Problem	Specific example	Security pattern (from	Security pattern (from our	Solution	Solution location
						implementation side)	side)		
	1	Tamper proof data	Gain ability to tamper with	unauthorized actors tampering with	users accessing local data on their phone, changing	Encryption pattern	Encryption pattern	Provided by the android phone itself> it	Physical storage
			data	local data	their score			encrypts stored data	
	2			unauthorized actors tampering with	hostile accessing the cloud server to change the goal	Encryption pattern	Using third party sever.	Handled by amazon: their security	Software architecture
				cloud data	location to current location			measures are quite extensive	
S/I(dep	3	confidentiality	Gain access to confidential	unauthorized actors listening to the	man in the middle attack	Transmission pattern	Secure transmission	API automatically uses SSL and can be set	Software implementation
s on			information	transmissions to and from the			security pattern (not sure	to use a VPN	
ack)				server			about exact name)		
	4			information disclosure	hostile user releases a list of goal locations	Encryption pattern, Authentication	Using third party server	similar to tamper proof data> same	Software architecture
						and (architectural solutions:		solution	
						firewall, server layout and			
						configuration)?			
	5			elevation of privilege	a user pretends to be an administrator which gives him	-	<b>· · · ·</b>	5 50	Software architecture
					unlimited access to all game data	of access), transmission pattern		through software, which is limited by	
	6	non-repudiation	Gain ability to work	identity spoofing	user changes their identity and has several games	Authentication pattern	Using third party	Premission levels of third party server Handled by API: allows users to log in	Software implementation
	0	non-repudiation	anonymously	identity spooring	running at once		<b>U</b>	using their google account	Software implementation
-	7		5 5	Repudiation	user able to change data anonymously making it	Authentication pattern		similar to identity spoofing> same	Software implementation
	/			Reputiation	impossible to trace			solution	Software implementation
_	8	Availiability	Bring down the servers	denial of service	server gets flooded by non legitimate messages	firewall, patterns for Ddos			Software architecture
	0	7 Vallaonity	Dring down the servers		meaning packets by legitimate users get dropped	inewan, patterns for Duos		small scale. However, the usage of	
					incaring packets by regulated users get dropped			Amazon servers means that some measure	
								of protection is in place against a DoS	
	0 D	eliability of third-party	Exploit usage of third	unsecure integration of third party	third party authentication service is not integrated			already handled: that is what an API is for	Softwara Implementation
	7 N	services	· · ·	services	properly thus resulting in a decrease in security by		is a kind of BlackBox>	aneady handled, that is what an AFT is 101	
		501 11005	party services	501 11005			hard to confirm		
					making elevation of privilege easier to achieve				