1.Test plan

Type of cyber security test	The effectiveness of the risk treatments		
Vulnerability scanning	 1.Check the version and setting of the App, back-end, and website to find the vulnerability. 2. Check if the server has updated the security patches. 3. Calculate the hash of the data of patients, and if it changes, notify the administrator. 4. Scan the network of the server to find if there are some ports that can be closed. 		
Penetrating test	1. Clear objective Collect the information like IP address and domain of the ROC. 2. Information Collection Try to get the sensitive URL of the backend. Scan each port to make sure which application runs on it. Try to get the version of the operating system of the server. Try to detect the defense device and software. Try to get the information of the person who registers the domain and the name of the administrator in ROC. 3. Scan vulnerability Check if the OS has updated the new patches. Scan if there is any vulnerability in the port of 21/9090/7001/22/3389. Try to get the request of the server to check that if the token is in the cookie without encryption. 4. Validate the vulnerability. Use automatic scanning tools to get the results. Guess the username and password of the server, or use the BF algorithm to break it. 5. Information analysis Analyze if there is a firewall and how to bypass it. Analyze if the server has detected mechanism, IP packet monitor. Analyze the code used to attack, such as XSS, DDoS, and SQL injection. 6. Report Report what vulnerabilities have been found in the system of ROC and give some feedback about how to fix them.		
Blue Team	1. Train the employees to prevent them from leaking data of the ROC. 2. Set up the firewall. 3. Secure database with strong password and encryption algorithm.		

	4. Backup all data of ROC.				
Purple Team	1. Work with the blue team to review how the server, apps,				
	sensitive documents are being protected and how events are being				
	detected.				
	2. Work with the red team to address how the blue team's detection				
	capability can be subverted.				
Privacy Testing	1. Check if the ROC system only collects and uses patience' data and				
	O2 relevant data relevant to its purposes.				
	2. Check if the ROC system has a method of tracking the consent of				
	doctors and administrators.				
	3. Check if the ROC system can maintain a flag indicating that the				
	information of patience, doctor, and O2 is in dispute.				

2. Technical and technique-al takeaways from the guest lecturers

Topic	Gues	Recorded material available	Question and answer	Com
	t		session(live)	pulso
				ry
Malwar	Jon	Hackers will use malware to	I realize that encrypted	YES
е	Noel	steal our money, information,	communication like WhatsApp	
Evoluti		use our resources, and	comes up with the end to end	
on		destroy a brand.	encryption to can secure our	
		Signature-based tools	communication, but some	
		(anti-virus, firewalls, and	people would use it to do	
		intrusion prevention) are only	things that are not on the	
		effective against 30-50% of	correct side of the law. So	
		current security threats. The	cybersecurity can be a	
		biggest vulnerability today is	double-edged sword.	
		people.		
Att&ck!	Paul	1.The framework of	I learn that the root causes of	YES
	Vlissi	cybersecurity is Identify,	cybersecurity are mainly	
	dis	Protect, Detect, Respond,	because of people and it is a	
		Recover.	little bit difficult to do a	
		2. The attack vectors for Red	background check for a	
		Team can be exploitation,	foreign because you need to	
		physical breaches, voice,	go back to the source country	
		email, SMS, instant	to get stuff like criminal	
		messaging, wireless, and	records. Besides, states are	
		target personal footprints of	using cyber to gain an	
		staff.	advantage in some diplomatic	
		3. The task of the Red Team	and sometimes less than	
		is to define, observe, attack,	diplomatic activities. That is	
		assess, review.	what the world is and always	

		4. We can use purple teaming to improve cyber resilience.	be.	
Forced Digital Transfo rmation	lan Thor nton		From this session, I realize that it is a terrible situation now and it is unlikely that we will go back to the office soon because of the Covid-19. But fortunately, we are resilient creatures, and we will be in a position to move into this work from home. In the future, what we will see is a decreased pressure within the center part of the city.	YES
		Server Performance Monitoring.		