Final Security Test Specification and Tools Report

Mobile Plataform Web Application
Application domain type m-Health
Authentication Yes

Authentication schemes Biometric-based authentication; Factors-based authentication

Has DBYesType of data storageSQLWhich DBMySQL

Type of data stored Personal Information; Confidential Data; Critical Data

User Registration Ye

Type of Registration The users will register themselves
Programming Languages HTML5; PHP; Javascript

Input Forms Yes
Upload Files Yes
The system has logs Yes
The system has regular updates Yes
The system has third-party Yes
System Claud Environments Princte

System Cloud Environments Private Cloud

Hardware Specification Yes

HW AuthenticationBasic Authentication (user/pass)HW Wireless Tech3G; 4G/LTE; 5G; Wi-Fi; GPS

Data Center Phisical Access Yes

In order to avoid or prevent SQLi, XSS, Spoofing and CSRF attacks, the following security tests should be performed.

Test Parameter	Testing Types	Testing Methods	Tools		
			Both	Android	iOS
			OWASP WebScarab,		
Authentication and Authorization	Grey Box	Dinamic analysis via	OWASP Berretta, Nikto,		
		Vulnerability Scanner	Wikto, Paros Proxy, Spike	9	
			Proxy, EOR, Pantera		
Access Control	Grey Box	Dinamic Analysis via Penetration Test	NMAP and Kali Linux		

In order to avoid or prevent Botnet, Spoofing and Sniffing attacks, the following security tests should be performed.

iOS
Xcode
Cycript

In order to avoid or prevent Malicious Insider and VM-Migration attacks, the following security tests should be performed.

Test Parameter	Testing Types	Testing Methods		Tools		
			Both	Android	iOS	
Input validation	Grey Box	Static Analysis via	Slueth Kit+Autopsy	AndroGuard, Drozer,		
		Forensic Mobile	Browser	apktool, Amandroid		

In order to avoid or prevent Malware injection and Side-channel Attacks, the following security tests should be performed.

T D	T (! T	Tastina Mathada		Tools		
Test Parameter	Testing Types	Testing Methods	Both	Android	ios	

Debug flag	White Box	Static Analysis via	BlackBag Blacklight,	AndroGuard, Drozer,	
	Writte DOX	Forensic Mobile	Encase forensics	FindBugs, Andriller	
Content providers	White Box	Static Analysis via	Slueth Kit+Autopsy	AndroGuard, Drozer,	
	Write DOX	Forensic Mobile	Browser	apktool	
Code quality	White Box	Static Analysis via Byte-	FindBugs, BugScan of		
	Writte Box	code Scanner	LogicLab Co.		
	White Box	Static Analysis via source	C++Test, RATS, C Code		
	Wille DOX	code Analyser	Analyzer(CCA)		
	White Box	Static Analysis via source	BugScan of LogicLab Co.		class-dump-z
	Writte BOX	code Analyser	and Fx- Cop. BugScam		

In order to avoid or prevent *physical attacks*, the following security tests should be performed.

Test Parameter	Test Method			Tools		
	Test Approach	Both	Both	Android	iOS	
Debug flag, Content	White Box	Static Analysis via		AndroGuard, Drozer,		
providers, Code quality		Forensic Mobile		FindBugs		
Leak, Breach and data Loss	Black Box	Manual Dinamic Analysis	3			
		Checking input fields from	n			
		device and GUI				