

Personal Digital Assets Security Model

Owner: Fahad Ibne Fahian
Reviewer: Teacher
Contributors:
Date Generated: Sat Sep 13 2025

Executive Summary

High level system description

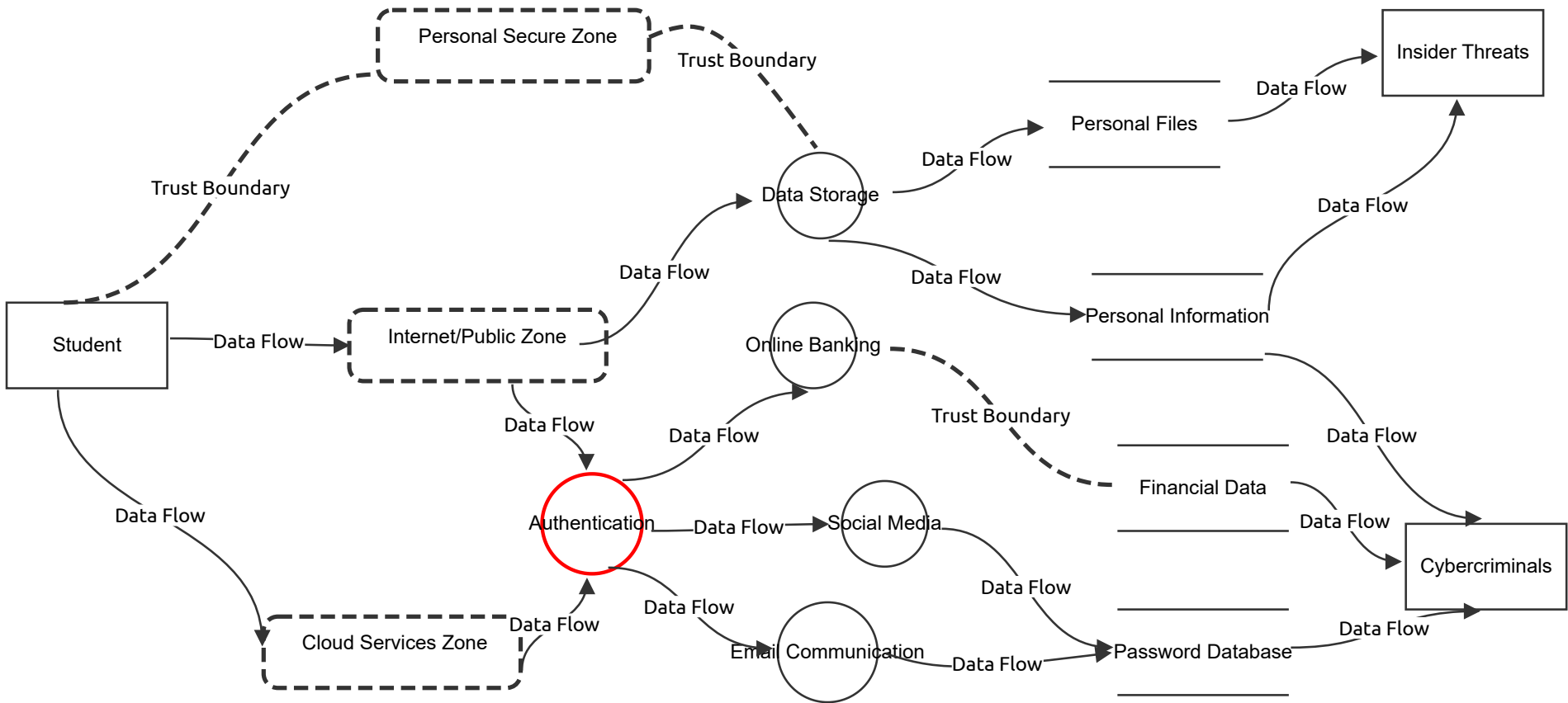
This threat model identifies and mitigates risks to personal digital assets, focusing on online accounts, sensitive data, and device security. It addresses common cyber threats (phishing, malware, account takeover) and outlines protections for financial, privacy, and reputational impacts.

Summary

Total Threats	2
Total Mitigated	1
Total Open	1
Open / Critical Severity	0
Open / High Severity	1
Open / Medium Severity	0
Open / Low Severity	0

Student's Personal Threat Model

STRIDE analysis of personal cybersecurity threats and mitigations.



Student's Personal Threat Model

Student (Actor)

Description: User

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Cybercriminals (Actor)

Description: Malicious attackers

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Insider Threats (Actor)

Description: People with physical access to student's devices

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Authentication (Process)

Description: Login processes

Number	Title	Type	Severity	Status	Score	Description	Mitigations
2	Phishing Attack on Student Credentials	Spoofing	High	Open		The attacker can use a phishing attack by creating a fake the student login page in to steal their credentials.	The user should check the URL carefully before using, avoid clicking on any suspicious links found online and also use 2FA, which can prevent the attacker from logging in even if they've stolen the credentials.

Social Media (Process)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Storage (Process)

Description: File management and backup

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Online Banking (Process)

Description: Financial transactions

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Email Communication (Process)

Description: Email sending/receiving

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Personal Files (Store)

Description: Documents, photos, videos

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Password Database (Store)

Description: Stored credentials

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
3	Man-in-the-Middle Attack (MITM) during HTTP Requests	Tampering	Medium	Mitigated		If the student is using public network (wifi) or if the website/application is using Unsecured connection (HTTP) instead of HTTPS, then an attacker can tamper with requests sent between the browser and server. They can manipulate and steal the data.	Use VPN or avoid using public Wifi and use HTTPS to encrypt all data for communication to ensure the security of the data during transmission.

Financial Data (Store)

Description: Banking and payment info							
---------------------------------------	--	--	--	--	--	--	--

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------

Personal Information (Store)

Description: Identity and contact details							
---	--	--	--	--	--	--	--

Number	Title	Type	Severity	Status	Score	Description	Mitigations
--------	-------	------	----------	--------	-------	-------------	-------------