

GROWNET — Security Threat Model

(Asset Protection & Business Continuity Focused)

1. Purpose & Security Objectives

هدف این سند:

حفاظت از داده، درآمد، اعتبار برنده، و تداوم کسبوکار

=امنیت ضعیف

- ریسک حقوقی / (GDPR) قراردادها
- ریسک برنده (از دست رفتن اعتماد)
- ریسک توقف کسبوکار (downtime / ransomware)

2. Assets & Data Classification

2.1 Critical Assets

Asset	Sensitivity
User data	High
Campaign & ranking logic	High
Payment data	Very High
API keys & secrets	Critical
ML / algorithm logic	High

2.2 Data Classification

Class	Examples
Public	Landing pages
Internal	Metrics, configs
Confidential	User profiles
Restricted	Auth tokens, keys

: Least Privilege + Need-to-Know اصل

3. Threat Actors (Who Attacks Us?)

Actor	Motivation
Opportunistic attacker	Easy money
Competitor	IP theft
Malicious insider	Privilege abuse
Script kiddie	Misconfiguration
Automated bots	Credential stuffing

4. Attack Surface Overview

Entry Points
Web frontend •
Public APIs •
Admin panel •
CI/CD pipelines •
Cloud infrastructure •
Third-party integrations •
هر feature جدید = افزایش سطح حمله

5. Threat Modeling Methodology

We use a **STRIDE-inspired approach:**

Threat	Meaning
S	Spoofing
T	Tampering
R	Repudiation
I	Information Disclosure
D	Denial of Service
E	Elevation of Privilege

6. Key Threat Scenarios

6.1 Authentication Attacks

Credential stuffing •

Token reuse •

Session hijacking •

Controls

MFA (admin) •

Rate limiting •

Secure cookie flags •

Token rotation •

6.2 Authorization Failures

Horizontal privilege escalation •

Admin access misuse •

Controls

RBAC •

Policy-based authorization •

Authorization tests •

6.3 Data Leakage

Misconfigured storage •

Over-permissive APIs •

Controls

Encryption at rest •

Field-level access control •

Data minimization •

6.4 Payment & Billing Abuse

Fake transactions •

Refund manipulation •

Controls

External PSP isolation •

Idempotent payment APIs •

Audit logs •

6.5 Infrastructure Attacks

DDoS	•
Cloud misconfiguration	•
Controls	
Network segmentation	•
Managed firewall	•
Rate limiting	•

7. Cryptography & Key Management

Encryption

Layer	Method
Data at rest	AES-256
Data in transit	TLS 1.2+

Key Management

Centralized KMS	•
No hardcoded secrets	•
Rotation policy every 90 days	•
Keys are assets , not config.	

8. Identity & Access Management (IAM)

Principles

Least privilege	•
Zero-trust mindset	•
Explicit access grants	•

Controls

Role-based access	•
Separate prod/non-prod access	•
Time-limited elevated access	•

9. Secure Development Practices

- Static code analysis
 - Dependency vulnerability scans
 - Secret detection in CI
 - Security review for risky features
 - Security debt = compound interest
-

10. Logging, Monitoring & Alerting

What We Log

- Auth events
- Privilege changes
- Data exports
- Payment actions

Monitoring

- Anomaly detection
 - Failed login spikes
 - Access pattern deviations
-

11. Incident Response Plan

Incident Types

- Data breach
- Account compromise
- Service outage
- Insider misuse

Response Phases

- Detect .1
- Contain .2
- Eradicate .3
- Recover .4
- Post-mortem .5

MTTR < 24h for critical incidents

12. Legal & Compliance Considerations

- GDPR readiness •
 - Data retention policy •
 - Breach notification procedures •
 - Vendor security requirements •
-

13. Third-Party & Vendor Risk

- | Vendor Controls |
|--------------------------------|
| Minimal scopes • |
| Contractual security clauses • |
| Periodic review • |
- Vendor breach = your breach
-

14. Security Metrics (Board-Level)

Metric	Target
Security incidents	0 critical
Mean detection time	<1h
Mean recovery time	<24h
Open critical vulns	0

15. Security Roadmap

Phase	Focus
Now	Baseline controls
6 months	Pen-test
12 months	SOC2 prep
Scale	Continuous threat modeling

16. Why This Protects Capital

این تیم امنیت را هزینه نمی‌بیند؛
آن را بیمه سرمایه و رشد می‌داند.

ضعف امنیت =

burn پنهان rate

ریسک حقوقی

مرگ اعتماد بازار