

# TCEX

Taiwan Crypto Exchange —

2026-02-22v1.0master @ 41d2126Portal + Engine + Auth + KYC + Wallet

## 01 · EXECUTIVE SUMMARY

TCEX Cloudflare Workers + Durable Objects + D1

Email/SMS stub KYC L2

11

7  
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6

## 02 ·

· AUTHENTICATION		
/ /	<div></div>	PBKDF2-SHA256515JWT httpOnly Cookie
JWT + Session	<div></div>	hooks.server.ts JWT_SECRET fail-loud
Email	<div></div>	OTP DB 10 console.log
OTP	<div></div>	KV 60 console.log
2FA TOTP	<div></div>	10±30/
LINE OAuth 2.1	<div></div>	CSRF code exchangeProfile /
· KYC		
KYC L0 → L1	<div></div>	L1
KYC L1 → L2	<div></div>	R2status pending

· WALLET		
/ /		BigInt WHERE available_balance = ?
· TRADING		
/		KYC L2 gate2FA ±10%
		Engine DO
Durable Object		FIFO D1
WebSocket		Hibernation API
· DASHBOARD		
		JOIN positions + listings totalValueunrealizedPnl
		JOIN watchlist + listings D1
		+ D1
		DB
		"--" API +page.server.ts
· REVENUE SHARING		
		distributions / distribution_payments
		Phase 4 Cron Job
· SETTINGS		
		Email2FAKYC LINE API
· MISSING		
		/api/v1/notifications notifications
		/admin/* KYC
Email		ConsoleEmailSender console.log
SMS		ConsoleSmsSender console.log
		API
/		+page.server.ts DB
KYC L1 Gate		kyc-rules.ts API KYC

**Email / SMS Stub**  
server log Resend / AWS SESEmail Twilio / SMS

**KYC L2**  
L2 pending L2

KYC

**KYC**  
kyc-rules.ts L1 API 2FA KYC L0

Cron Job Queue Worker

"\_"

P0 ·

- Email Resend AWS SES ConsoleEmailSender
- SMS Twilio ConsoleSmsSender
- KYC /admin/kyc
- API KYC L1

P1 ·

**Sprint**

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- Cron Job + Queue Worker
- migration + API +

P2 ·

- API
- / DB
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SvelteKitSSR + Adapter Cloudflare  
Cloudflare WorkersAPI Routes+ Durable Objects  
Cloudflare D1SQLite+ KVSession / + R2KYC  
JWT HS256httpOnly CookiePBKDF2-SHA256  
WebSocket Hibernation APIDurable Object  
**i18n**svelte-i18n /