

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

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7

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02 ·

· AUTHENTICATION

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



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

Sprint

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- Cron Job + Queue Worker
- migration + API +

- API
- / DB
-
-

SvelteKitSSR + Adapter Cloudflare
Cloudflare WorkersAPI Routes+ Durable Objects
Cloudflare D1SQLite+ KVSession / + R2KYC
JWT HS256httpOnly CookiePBKDF2-SHA256
WebSocket Hibernation API Durable Object
i18nsvelte-i18n /