# **SKEET — Full System Architecture Report**

#### Overview:

SKEET (Statistically Known Entry & Exit Tactics) is a multi-user trading automation and analytics platform. It integrates AI/ML compute, exchange connectivity, and real-time analytics with a scalable architecture built for both crypto and stock markets.

Layer	Responsibility	Technology Stack
Frontend	User dashboards, strategy creation, an	al <b>Rica</b> cts <b>ulosatipe</b> io <b>n</b> ailwind, Supabase JS, Rechar
Backend	Auth, database, event relay, user mana	g <b>Somemb</b> ase (Postgres, Realtime, Auth, Storage)
Compute Layer	AI/ML models, CCXT order execution,	pa <b>cktlests</b> , FastAPI, Celery/Ray, ccxt, pandas, PyT
Queue/Messaging	Dispatch trading and ML tasks	Redis / NATS / Supabase Webhooks
Monitoring	Track bot metrics, logs, PnL	Prometheus, Grafana, Supabase Logs
Payments	Subscription billing and account tiers	Stripe API + Supabase Edge Functions

#### **Key Components:**

- Multi-user authentication with role-based access control
- AI/ML trading engine cluster (Python FastAPI)
- Supabase backend for real-time data and event tracking
- Stripe billing for subscription monetization
- Containerized microservices for AI, ML, and CCXT execution
- Secure encrypted API key vault (pgcrypto)
- Realtime WebSocket updates for trades and performance

## Folder-Level Blueprint (Developer Reference)

```
skeet-platform/
■■■ frontend/ (React + Lovable)
■ ■■■ components/
■ ■■■ pages/
■ ■■■ utils/
■ ■■■ styles/
■■■ backend/ (Supabase Edge Functions)
functions/
■ ■■■ auth/
■ ■■■ routes/
■■■ ai-server/ (Python FastAPI)
main.py
trading/
\blacksquare \blacksquare \blacksquare ccxt_handlers.py
■ ■ ■■■ risk_manager.py
■ ■■■ order_executor.py
■ ■■■ ai/
■ ■ ■■■ prediction_service.py
■ ■■■ database/
■ ■ ■■■ supabase_client.py
■ ■■■ workers/
■ ■ ■■■ celery_worker.py
■ ■■■ config.json
■■■ infra/
■ ■■■ Dockerfile
■ ■■■ docker-compose.yml
■ ■■■ deploy_scripts/
README.md
```

### **Next Steps:**

- 1. Convert current Supabase schema to multi-user structure.
- 2. Set up AI server (FastAPI + Celery) and connect via Supabase webhooks.
- 3. Implement Redis for job queuing and scaling.
- 4. Connect Stripe for billing and subscription management.
- 5. Deploy frontend on Vercel and backend compute cluster on Render/AWS.