

SDE

TokenWise — Real-Time Wallet Intelligence on Solana






Project Overview

TokenWise is a real-time intelligence tool designed to monitor and analyze wallet behavior for specific tokens on the **Solana blockchain**. Your goal is to build a system that tracks the **top 60 token holders**, captures their transaction activity in real time, and visualizes market trends through a clean dashboard.

 *Target Token:*

Contract Address: `9BB6NFEcjBCtnNLFko2FqVQBq8HHM13kCyYcdQbgpump` (Solana)

Objectives

-  **Discover** the top 60 wallets holding a specific Solana token
 -  **Real-time monitoring** of token-related transactions (buys/sells)
 -  **Identify** protocols used (e.g., Jupiter, Raydium, Orca)
 -  **Generate insights dashboard** for market trend analysis
 -  **Support historical analysis** with custom time filters
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Technical Requirements

1. Top Wallet Discovery

- Connect to Solana via RPC
- Fetch and display top 60 wallet addresses holding the token
- Store balance, wallet address, and token quantity

2. Real-Time Transaction Monitoring

- Track token buys and sells by these wallets in real time
- Capture:
 - Timestamps
 - Amounts
 - Buy/Sell indicator
 - Protocol used (Jupiter, Raydium, Orca)
 - Wallet address

3. Insights Dashboard

- Create a simple dashboard (can be local or web) that shows:
 - Total number of buys vs sells
 - Net direction (buy-heavy, sell-heavy)
 - Wallets with repeated activity
 - Protocol usage breakdown

4. Historical Analysis

- Enable querying of past activity with time filters

- Exportable reports (CSV/JSON) with transaction summaries



Tech Stack

Use tools you're most comfortable with. Here are recommendations:

Component	Suggested Tools
Backend	Node.js with TypeScript
Blockchain Interface	@solana/web3.js or @solana/kit
DB	SQLite (simple) or PostgreSQL (preferred)
Dashboard	Streamlit / React.js / Flask + Chart.js



Submission Requirements

To evaluate both your technical skills and communication, please submit:



Technical Deliverables

- Working codebase + README
- Setup instructions and dependencies
- Sample output data (JSON/CSV)
- Working **dashboard** with insights



Presentation & Documentation

- **2-Min Strategy Video** — explain your overall approach
- **2-Min Code Walkthrough Video** — explain architecture & key logic
- **2-Min results from dashboard video** — explain the features of dashboard
- **PPT Deck (3–5 slides)** — covering:
 - Design and thought process
 - Assumptions and tradeoffs
 - Possible future improvements



Final Step

Submit your project and videos via this **Google Form**:

[SUBMIT HERE](#)



Timeline

- Ideal completion time: **Wednesday 11:59pm IST**
- Focus on real-time logic, insights dashboard, and clean architecture



Collaboration & Support

- Use telegram for doubts Tg Group Link - <https://t.me/+nRIHhNPHXe04ZjE9>



Tips

- Focus on clean MVP first; add enhancements later
 - Use caching/snapshotting wisely for real-time fetches
 - Think deeply about user needs for the dashboard
 - Communicate assumptions in your videos/slides
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Resources

- [Solana Developer Docs](#)
 - [Jupiter Aggregator](#)
 - [Solana Web3.js](#)
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Let's Go!

This is the first step in our hiring process, and it's your opportunity to stand out.

We're not just looking for code – we're looking for creativity, clarity of thought, and how you approach real-world problems.

Build something powerful, simple, and insightful.

Creativity is always appreciated – show us what makes you different!
