

SafeCity: Report. Track. Fix.

Empowering Citizens to Build Safer Communities

Developer: Uwami Mghekwa



SCAN QR CODE
TO OPEN
SafeCity APP

<https://uwami-mghekwa.github.io/SafeCityWeb/>



The Johannesburg Infrastructure Challenge

Infrastructure issues are a daily reality in Johannesburg, leading to frustration and safety hazards. The current reporting landscape is fragmented, inefficient, and lacks transparency.

Infrastructure Decay

Potholes, water leaks, and non-functioning traffic lights cause property damage, waste resources, and create dangerous traffic situations.



Citizen Frustration

Citizens face long response times, no centralized system, and significant difficulty tracking the status of their reported issues.



Lack of Transparency

There is no visibility into whether reports are received, what action is being taken, or the overall resolution progress.



SafeCity: The Progressive Solution

SafeCity is a Progressive Web App (PWA) designed to bridge the gap between engaged citizens and local authorities, fostering accountability and rapid response.



Interactive Mapping

GPS-enabled mapping allows users to pinpoint exact issue locations for accurate reporting.



GPS + Photo Proof

Documenting issues with photographs and GPS coordinates provides clear, undeniable evidence.



Community Dashboard

See real-time statistics, upvote existing issues, and track community-wide resolution progress.



Instant Notifications

Stay informed with automated status updates via Email and WhatsApp messaging.



Offline Capability

The PWA design ensures users can file reports even without an internet connection, syncing later.

Screenshots available on the live site: <https://uwami-mgxekwa.github.io/SafeCityWeb/>

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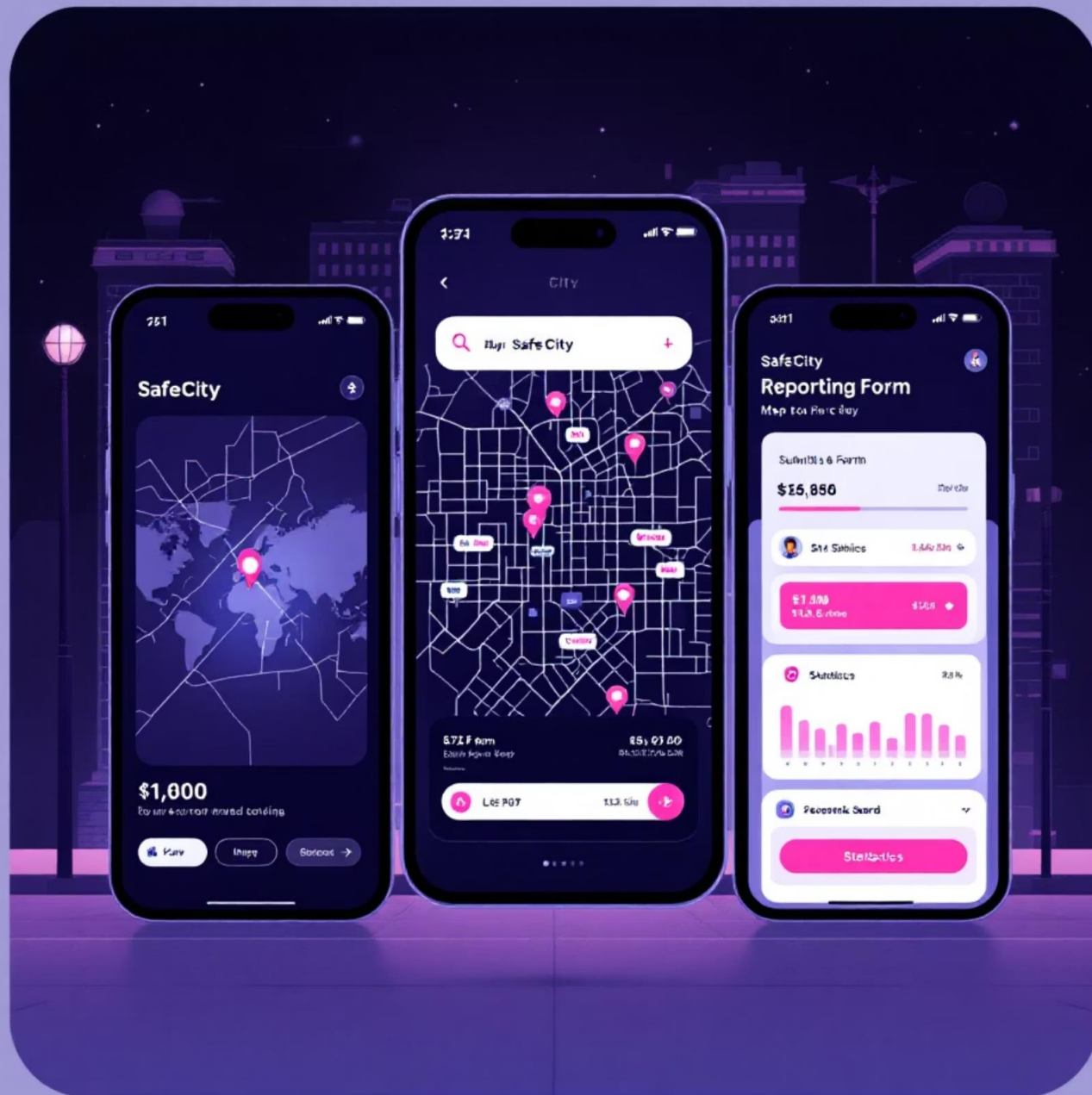
Experience SafeCity Now! 🚀

Scan or Visit to Try the Demo

Scan the QR Code

The Progressive Web App works seamlessly on any device (phone, tablet, or desktop) and requires **no installation**.

- Report issues in just 3 clicks
- See a real-time map of local problems
- Track your community's positive impact



<https://uwami-mgxekwa.github.io/SafeCityWeb/>



Sustainable Business Model & Growth Strategy

Revenue Streams

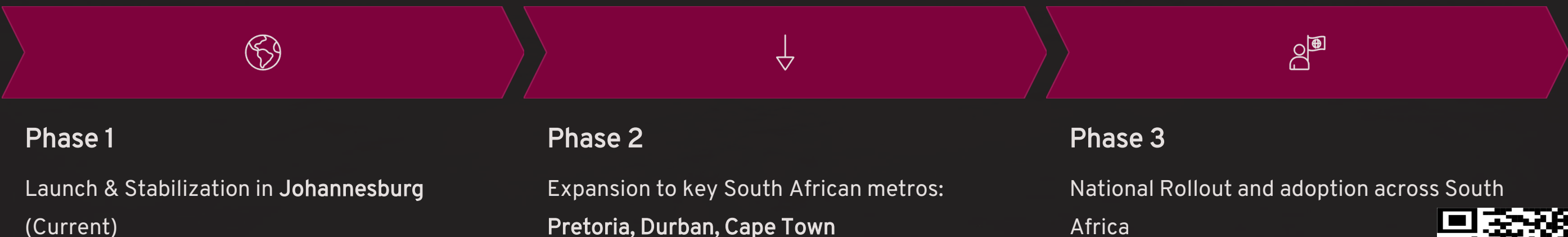
- **Government Subscriptions:** Premium analytics, advanced tools, and custom integrations for municipal partners.
- **Corporate Partnerships:** Sponsorships for issue resolution and brand visibility through CSR initiatives.
- **Data Insights:** Anonymized data on infrastructure trends for urban planning and predictive maintenance.

Target Customers

Our focus is on securing partnerships across three key segments:

- **Primary:** Municipal Governments (e.g., City of Johannesburg).
- **Secondary:** Infrastructure Maintenance Companies.
- **Tertiary:** Community Organizations & NGOs.

Growth Trajectory



Security and Compliance: Built on Trust

SafeCity is built using a Secure Software Development Lifecycle (SSDLC), prioritizing user data protection and privacy compliance from the ground up.

Robust Security Measures

- **Auth & Encryption:** Supabase Auth, encrypted passwords, and secure session management.
- **Data Protection:** HTTPS for all comms, parameterized queries (SQL injection prevention), and input validation.
- **Testing:** Rigorous cross-browser, mobile responsiveness, security penetration, and community-led UAT.

Privacy & Compliance

GDPR-Compliant data handling.

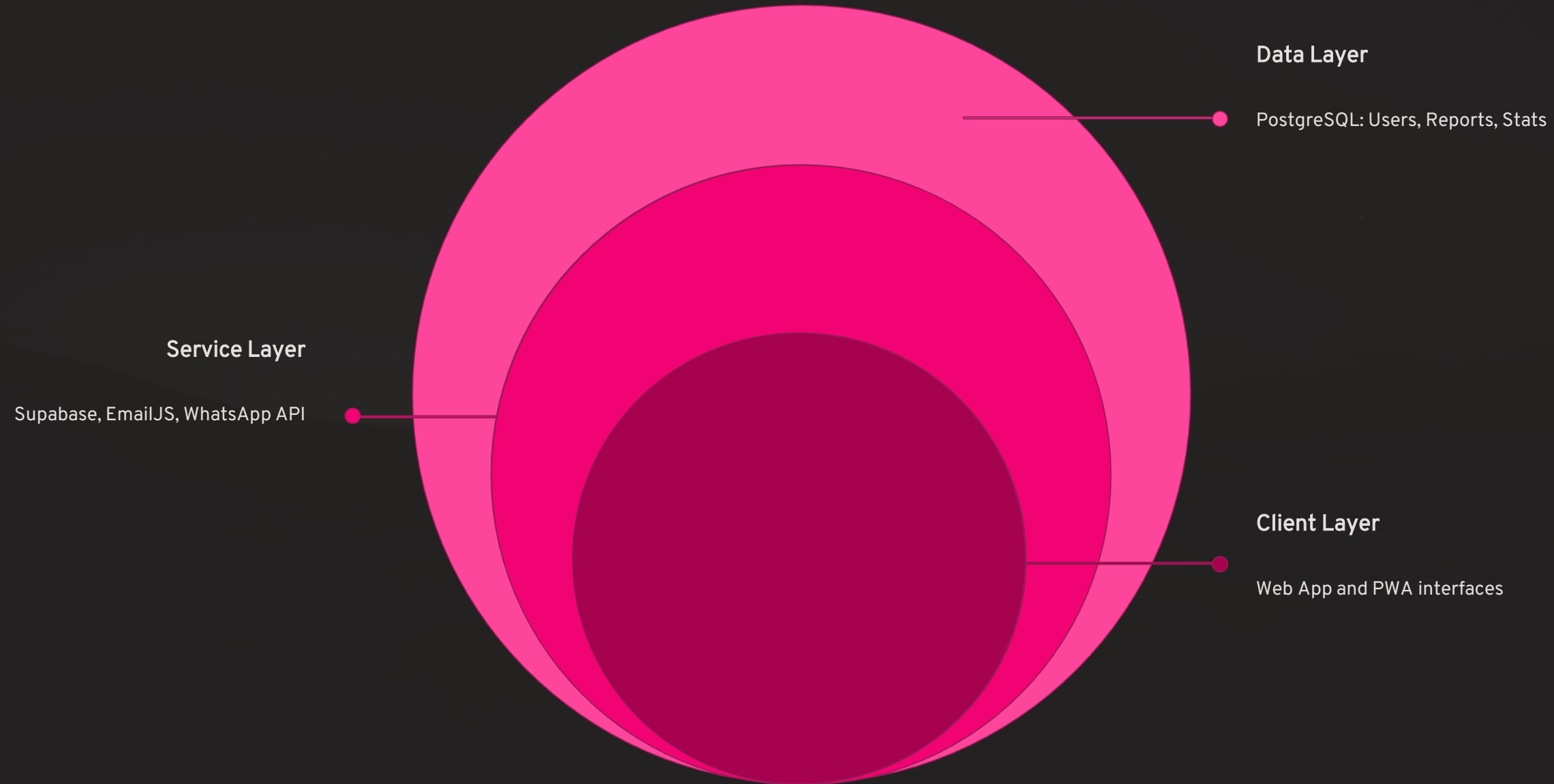
User Control: Optional photo uploads and controlled location sharing.

Transparency: Clear policies on data export, deletion rights, and usage.



Technical Architecture & Stack

SafeCity utilizes a modern, modular architecture, ensuring high performance, scalability, and maintainability.



Measurable Impact & Scalability

SafeCity is designed to generate significant, measurable impact through streamlined community engagement and data-driven governance.

Faster Response

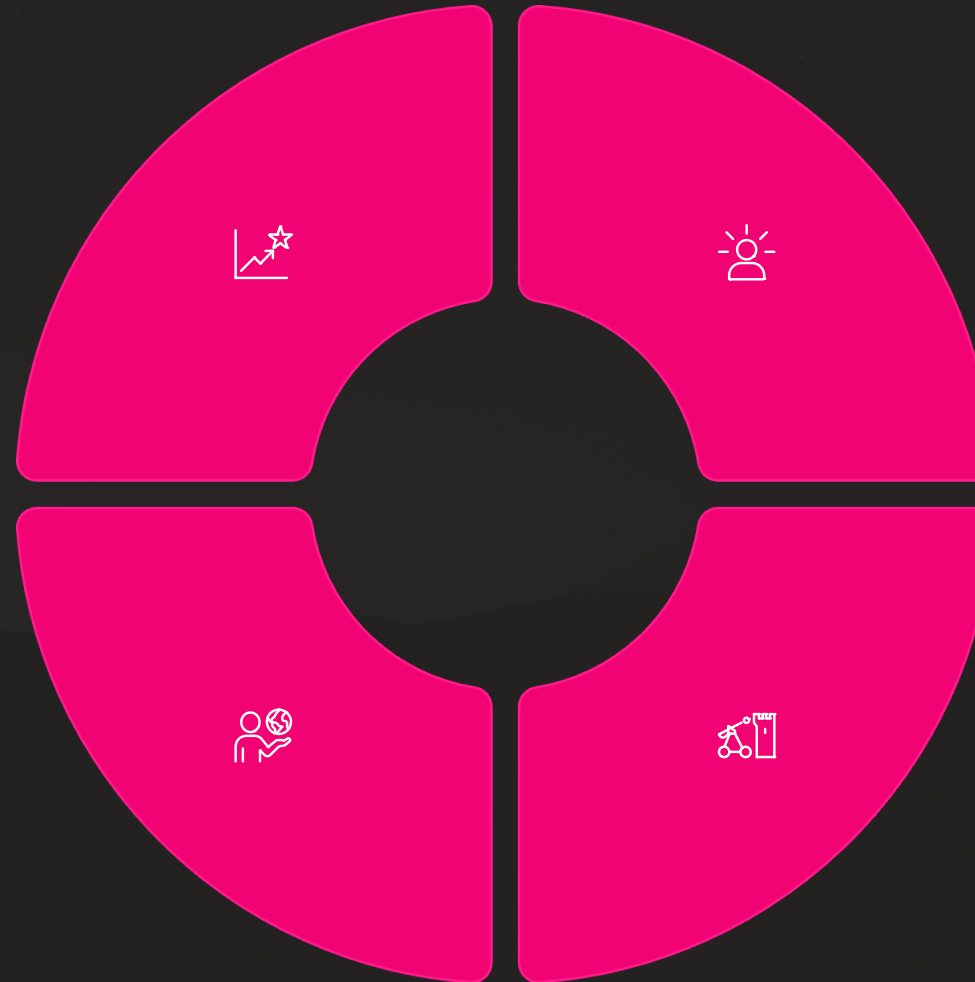
Expected 30-50% improvement in infrastructure response times due to accurate, instant reporting.

Accountability

Public status tracking (**New** → **Resolved**) ensures transparent and accountable governance.

Scalability Built-In

The modular architecture and cloud-based infrastructure ensure SafeCity is ready for multi-city expansion and future government API integration.



Increased Engagement

User authentication and personalized dashboards drive higher citizen satisfaction and participation.

Data-Driven Planning

Real-time data feeds inform city officials for proactive maintenance and better resource allocation.



Roadmap for Growth

✓ Current Features (Live)

- User Auth, GPS/Photo Reporting
- Interactive Map & Real-time Stats
- Email/WhatsApp Notifications, Offline PWA

📅 6-12 Month Vision (2025)

- Government API integration (City of Johannesburg)
- **Predictive Maintenance** using ML
- Expansion to Pretoria, Durban, Cape Town
- Advanced Analytics Dashboard for officials

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📅 Next 3 Months (Q1 2025)

- **Push Notifications** for status updates
- Multi-language support (Zulu, Afrikaans, Sotho)
- AI-powered issue classification
- Native mobile apps (iOS & Android)





Join Us in Building Safer Communities!

SafeCity is an open-source initiative seeking partners to maximize our impact across South Africa and beyond.



Government Partnerships

Collaborate for official integration and implementation.



Investment Opportunities

Help us scale through key investment and funding.



Open Source Contributors

Join the community and contribute to the code base.

Developer Contact

- Developer: Uwami Mgsekwa
- Live Demo: uwami-mgsekwa.github.io/SafeCityWeb/
- Open Source: github.com/Uwami-Mgsekwa/SafeCityWeb

