

IMAGINE-NATION AGENCY LIMITED Proposal For EPERA Visitor & Gate Management System Proposal

Client: Eagle Plains Estate Association (EPERA)
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Date: October 8, 2025
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1. Executive Summary

Eagle Plains Estate (260 residential units) requires a modern, secure, and easy-to-use system to manage visitors, issue gate passes, and verify vehicles at entry and exit.

We propose a **robust web backend (Laravel)** and a **native Android app (optional)** for security teams.

This solution enhances security, reduces manual paperwork, and enables real-time visibility of all gate operations.

2. Project Objectives

- Fast visitor registration and gate-pass issuance
 - Verify vehicle registration at entry/exit
 - Log visitor photo, ID, and signature for accountability
 - Notify residents upon guest arrival and approval
 - Centralized admin dashboard with full audit logs
 - Comprehensive reporting and data exports
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3. Proposed Solution

Component	Description
Backend (Laravel API)	Secure, scalable API-first design
Admin Dashboard	Web interface for admins and supervisors
Android App (Java)	For gate attendants; photo, signature, QR validation

Notifications	SMS/email alerts for residents
Reports & Logs	Filterable exports and visit histories

Data Flow Summary

1. Guard registers visitors via mobile app.
 2. Captures ID photo, signature, vehicle plate.
 3. System generates and validates gate pass (QR).
 4. Resident notified (optional approval).
 5. Check-out confirmation at exit.
 6. All data logged in the admin dashboard with RBAC.
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4. Core Features

Visitor Management

- Register visitors with full details, photo & signature
- Auto-generate QR-based gate pass
- Print optional visitor slip to be given to host to sign or scan QR

Vehicle Management

- Record vehicle details; flag unknown or blacklisted plates
- Verify resident vehicles vs visitor entries

Admin Dashboard

- Manage residents, guards, vehicles & logs
- Live visitor queue (inside/outside estate)
- Exportable reports (PDF/Excel/CSV)

Guard Android App

- Simple UI for check-in/out
- QR scanning, offline mode sync, and instant capture tools

Notifications

- SMS/email alerts to residents for approvals or alerts

5. Technical Architecture

- **Backend:** Laravel 10+, MySQL/PostgreSQL
- **Frontend:** Laravel Blade + Tailwind CSS
- **Mobile App:** Native Android (Java, API 26+)
- **Hosting:** Cloud (AWS, DigitalOcean) or On-prem
- **Integrations:** Twilio / Africa’s Talking SMS, SendGrid SMTP

6. Implementation Timeline

Phase	Description	Duration
Discovery & Design	Define scope, workflows, and data model	1 week
Backend & API	Core system and database setup	2 weeks
Android App	Visitor app with offline sync	2–3 weeks
Dashboard & Integrations	Reports, notifications	1 week
Testing & Deployment	UAT, staff training	1-3 week


Hardware (Android devices, printers) and SMS gateway costs billed separately.

7. Next Steps

1. Approve this proposal and sign-off.
2. Proceed with discovery and project agreement.
3. Discuss project fees
4. Begin with a 40% deposit to kickstart development.

8. Contact

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Thank you for considering IMagine-nation Agency Limited as your technology partner. We look forward to delivering a seamless, secure visitor experience for Eagle Plains Estate.

Pricing Model Recommendation

Model	Description	Pros	Cons	Best For
One-off Payment	Pay full project cost upfront + optional support plan	Full ownership, no recurring fees	Higher upfront cost, limited updates unless maintained	Estates with in-house IT or fixed budgets
Subscription-based (SaaS)	Low upfront cost + monthly payment (includes hosting, support, updates)	Continuous updates, support & hosting included	Long-term cost higher if used for many years	Estates preferring managed service and no technical overhead

Recommendation:

For a private estate like Eagle Plains (260 units), a **hybrid model** is best:

- **One-off build** (ownership of code and system)
- **Monthly Standard Maintenance Plan (KES 15,000)** for continuous support, updates, and hosting.

This ensures ownership, security, and reliability — without large recurring subscription fees.