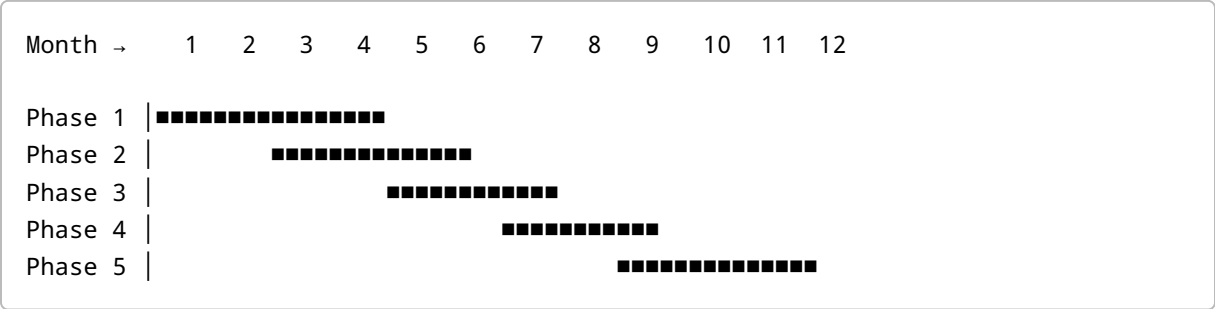


Voting App Pro – Implementation Roadmap (Gantt Style)

Timeline Overview (12-Month Plan)

Phase	Months	Key Focus Areas	Major Deliverables	Dependencies
Phase 1 – Core Platform (MVP)	Month 1 → Month 3	Multi-tenant setup, role management, elections CRUD	- Super User + Org Admin roles - Org & election setup - Constituencies + voter codes - Ballot submission & results export - Audit Event system	None (foundational phase)
Phase 2 – Security & Performance Hardening	Month 3 → Month 5	Reliability, scalability, data integrity	- JWT roles & access policies - Rate limiting & hashing - Backups + restore - Redis caching - Health checks + stress tests	Phase 1 completed & stable APIs
Phase 3 – Transparency & Accessibility	Month 5 → Month 7	Trust, transparency, UI experience	- Voter receipts & SHA-256 signatures - Observer dashboards - i18n (English/French/Swahili) - WCAG 2.1 accessibility compliance - Mobile responsiveness improvements	Phase 2 complete
Phase 4 – Enhanced Security & Governance	Month 7 → Month 9	Administrative protection & branding	- 2FA for admins - Email/SMS code delivery - Maintenance mode - IP/Geo restrictions - Admin analytics dashboard	Phase 3 features stable
Phase 5 – Advanced Voting Methods & Integrations	Month 9 → Month 12	Intelligence, integrations & innovation	- Ranked-Choice & STV voting - Delegated (proxy) voting - Blockchain result verification - REST API integrations - AI turnout forecasting	Phase 4 stable deployment

Gantt Chart (Textual Representation)



Milestones Summary

Milestone	Target Date	Success Criteria
MVP Alpha Release	End of Month 3	Full vote flow tested across orgs; audit logs functional
Beta Launch	End of Month 5	Stable under 100 concurrent users; Redis caching live
Public Launch	End of Month 7	Transparency & accessibility complete; voter receipts active
Security Upgrade	End of Month 9	MFA enabled; admin alerts & restrictions operational
Advanced Voting Rollout	End of Month 12	RCV/STV methods verified; blockchain verification operational

Critical Path Dependencies

- **Phase 1** is prerequisite for all subsequent phases.
- **Phase 2** must reach stable build before external pilots.
- **Phase 3** depends on completed frontend UI refactor.
- **Phase 4** builds upon verified security infrastructure.
- **Phase 5** requires data models finalized and audited.

Monitoring & Reporting

- Weekly sprint reports (Agile format)
- Monthly roadmap review with Super User & Dev Leads
- Quarterly performance audit (load, security, data integrity)

Success Indicators (Cross-Phase)

- 99.5% uptime during elections
- <300ms average response time
- 0 data integrity errors post-launch
- 100% audit event coverage on key actions
- Platform operational across 10+ organizations by Month 12

Prepared for: Voting App Pro Core Development & Governance Team Document version: PRD v2.0 Roadmap