

AGILE FRAMEWORK

Sprint 0 (Foundation & Architecture)

Goal: Prepare system for scalable development

Stories

- Define system architecture
- Setup Git, CI/CD
- MongoDB schema design
- Role-based access model

Deliverables

- ✓ Architecture diagram
 - ✓ Database schema
 - ✓ Dev environment ready
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Sprint 1: Migrant Worker Onboarding

Goal: Worker can register & control consent

User Stories

- As a worker, I can register with phone/ID
- As a worker, I can turn consent ON/OFF
- As a worker, I can see my profile

Acceptance Criteria

- Consent defaults to OFF
 - No data visible without consent
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Sprint 2: Healthcare Provider Module

Goal: Providers can add health data (with consent)

User Stories

- Doctor logs in securely
- Can scan QR / OTP to get consent
- Can add symptoms, diagnosis, vitals

Acceptance Criteria

- Backend blocks access without consent
- Records tagged with worker ID + date

Sprint 3: Self-Reporting & History

Goal: Workers can self-report and view history

User Stories

- Worker submits symptoms
- Worker views own health timeline
- System marks self-reported vs clinical data

Sprint 4: Backend Consent Enforcement

Goal: Absolute data ownership enforcement

User Stories

- API checks consent before every read/write
- Consent logs maintained
- Data access audit trail

Sprint 5: AI Integration (Gemini)

Goal: Disease pattern detection without identity

User Stories

- Backend anonymizes health data
- Gemini receives symptom + location + date
- AI returns outbreak signals

Acceptance Criteria

- No PII sent to AI
- AI runs on schedule or trigger

Sprint 6: Alerts Engine

Goal: Convert AI insights into action

User Stories

- Worker gets personal alerts
- Doctor sees AI diagnosis hints
- Authority receives outbreak alerts

Sprint 7: Public Health Dashboard

Goal: Authority can monitor trends

User Stories

- View heatmaps by district
- View disease trends
- Export reports

Acceptance Criteria

- No personal data visible
 - Aggregated data only
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Sprint 8: Security, Performance & Hardening

Goal: Production readiness

User Stories

- Penetration testing
- Load testing
- Role misuse prevention