Documentation Manual

Results-Based Program Monitoring & Evaluation Suite

Developed by Gilbert E. Lumantao

1. Overview

The Results-Based Program Monitoring & Evaluation Suite is a web-based workspace that helps program teams move from a Theory of Change through to a fully reportable results dashboard. It bundles five interconnected modules — Theory of Change, Results Framework, M&E Plan, Reporting & Visualization, and Kobo Toolbox guidance — together with a sample program, user management, references library, and a feedback channel.

Audience

Program managers, M&E officers, technical advisors, and donor focal points who design, implement, monitor, and report on results-based programs.

2. Architecture

Frontend

TanStack Start (React 19) with file-based routing under **src/routes**. Styling uses Tailwind CSS v4 with semantic design tokens defined in **src/styles.css**. Charts use Recharts. UI primitives are shadcn components.

Backend (Lovable Cloud)

Authentication, database, and storage are provided through Lovable Cloud. Three tables underpin the platform:

- **profiles** — user profile information linked to auth.users
- **user_roles** — role assignments (admin / user) enforced via a security-definer *has_role()* function
- **feedback** — feedback submissions visible to the author and admins

Security model

Row-Level Security is enabled on every public table. Role checks are performed server-side via the *has_role* function to prevent privilege escalation. Email/password and Google sign-in are supported.

3. Modules

3.1 Theory of Change

Visual narrative linking inputs, activities, outputs, outcomes, impact, and assumptions for a results-based program.

3.2 Results Framework

Hierarchical view of goal, outcomes, outputs, and SMART indicators with means of verification.

3.3 M&E Plan

Operationalizes each indicator with data source, collection method, frequency, responsibility, and use of data.

3.4 Reporting & Visualization

Interactive workspace where the implementing team enters performance data for every indicator across reporting periods. The page renders KPI tiles, an achievement-vs-target bar chart, a results-level mix, and a per-indicator trend chart. Data is stored in the browser and can be exported to CSV.

3.5 Kobo Toolbox

Reference page explaining how KoboToolbox supports mobile/offline data collection, GPS, skip logic, and analysis pipelines.

3.6 Sample Program

End-to-end illustrative example combining all four planning modules in a single narrative.

3.7 References

Bibliography of all sources cited across the practitioner tips, with direct links to source publications.

3.8 User Management

Admin-only view to list registered users and assign or revoke the admin role.

3.9 Feedback

Authenticated users can file feedback by category and page; admins can review and respond.

4. Roles & Permissions

- **Anonymous** — can browse public pages and view the sign-in screen.
- **Authenticated user** — can use all planning modules, save reporting data locally, and submit feedback.
- **Admin** — additionally can manage users and review/respond to feedback.

5. Data Persistence

The Reporting & Visualization module stores indicator data in the browser via *localStorage* under the key **rbme.indicators.v1**. Use the “Export CSV” button to back up data outside the browser. The

“Reset to sample data” button restores the seeded indicator set.

6. Deployment

The suite runs on Lovable’s managed infrastructure. Published URLs and preview URLs are issued automatically. SEO metadata (title, description, Open Graph, Twitter Card) is defined per route via the *head()* option in TanStack Start.

7. Support & Feedback

Use the in-app Feedback page to submit issues, ideas, or questions. Admin users will see and respond to feedback inside the same page.

Credits

Developed by Gilbert E. Lumantao. References to source frameworks (World Bank, USAID, UN, CRS, KoboToolbox) are listed in the in-app References page.