

Core Modules & System Features

1. M&E Project Design Module

- **User Management Table**
 - Manage users: Username, Email, Position, Access Level
 - **Indicator Management Table**
 - Define indicators: Code, Name, Definition
 - Disaggregates: Gender, Age Group, Location, Disability
 - Types: Standard or Custom
 - Data Type: Text, Numeric, Percentage
 - Sector: WASH, Protection, etc.
 - **Projects Table**
 - Project info: Title, Dates, Owner, Donor, Outputs, Location, Partners
 - Linked with indicators and M&E modules
-

2. M&E Project Management Module (Project-Level)

- **Indicator Monitoring Plan (IMP)**
 - Result Chain: Impact → Output
 - Indicator, Means of Verification, Assumptions, Baselines, Targets
 - Auto-generates **Logical Framework** (exportable)
- **Indicator Tracking Table (ITT)**
 - Tracks indicator performance vs. targets

- Views: Monthly, Quarterly, Annually, Life of Project
 - Auto-calculations: % Achieved, Gender, Age, Disability breakdowns
 - **Beneficiary Database**
 - Captures individual-level data with duplicate checks
 - National ID/UNHCR card validation
 - **Annual Work Plan Table**
 - Output/Activity, Target, Budget (USD/EGP), Expenditure, Progress
 - **DQA Table (Data Quality Assessment)**
 - Auto-generated per project, annual reminder
 - Fields: Question, Yes/No, Comments
 - **Calendar**
 - Gantt-chart view with timelines, links to data collection forms
-

3. ILO Management Module (Org-Level Consolidation)

- **Aggregated ITT Table**
 - Consolidates project-level indicators for organizational reporting
- **General Annual Work Plan**
 - Consolidated view with additional fields (delivery rate, budget)
- **Project Tracker**
 - Full project status with thematic focus, partners, budget, dates
- **ILO-Level Beneficiary Database**
 - Consolidated + per project, flagged duplicates

- **General Calendar**
 - Includes all project M&E activities
-

4. Reporting & Visualization

- **Real-Time Dashboard**
 - Visuals: Pie charts, line graphs, bar charts, maps, pivot tables
 - Filters: Theme, Partner, Project, Year, Location
 - Export: PDF / Excel
-

System Architecture & Relationships

- Tables are **interlinked** for seamless data flow:
 - Indicator → IMP → ITT → Dashboard
 - Project → IMP / Work Plan / Beneficiaries
 - Logical relationships ensure:
 - Data validation
 - Real-time updates across modules
 - Auto-generation of reports and visualizations
-

Technical Infrastructure (for Developers)

- **Recommended Tech Stack (not limited to):**
 - Backend: Python Django / Node.js
 - Frontend: Modern responsive design (mobile-ready)
 - Database: PostgreSQL or MS SQL Server
 - Hosting: Preferably Cloud (AWS, Azure); On-premises option supported
- **Security Features:**
 - TLS 1.3 for data in transit
 - AES-256 for data at rest
 - RBAC (role-based access)
 - MFA for high-level users
 - Compliance with ILO Data Protection Policies
- **System Optimization:**
 - Load balancers
 - Daily backups
 - Performance monitoring
 - Auto-scaling infrastructure for cloud

Other Functional Aspects

- Duplicate checks for beneficiary entries
- Auto-reminders (e.g. DQA Table updates)



- Exportable documents (PDFs of logical frameworks, work plans)
- Fully role-based user interfaces
- Mobile and browser responsive design
- ILO color palette adherence: Blue (#1E2DBE) & White (#FFFFFF)