

# User Requirements Specification

*Prepared For*  
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## Version History

| Version | Date       | Author     | Description   |
|---------|------------|------------|---------------|
| 1.0     | 2025-08-21 | Rohan Bose | Initial Draft |

## 1. Overview

The Mission Women Empowerment MIS is a Management Information System designed to support the implementation of a nonprofit initiative aimed at empowering approximately **300 women entrepreneurs** across **10 villages** in rural Assam. The project runs from **September 2025 to August 2026** and is implemented by field-based **Community Mobilizers**, supervised by a **Project Manager**.

The MIS system will help streamline the data collection and monitoring processes, allowing mobilizers to register entrepreneurs and log mentoring or financial activities, while enabling the project manager to track progress and generate reports.

## 2. Key Users and Their Needs

| User                | Responsibilities in MIS  |
|---------------------|--|
| Community Mobilizer | <ul style="list-style-type: none"><li>Register women entrepreneurs</li><li>Submit mentoring and loan forms</li><li>View/edit their own entries</li></ul> |
| Project Manager     | <ul style="list-style-type: none"><li>View all data across villages</li><li>Monitor project activities</li><li>Download and filter reports</li></ul>     |

## 3. Functional Requirements

### **FR1: Entrepreneur Registration**

- Fields: Name, Age, Village, Phone Number, Product Type
- Submitted by: Community Mobilizer
- Function: Register women entrepreneurs into the system

### **FR2: Mentoring Visit Entry**

- Fields: Date, Entrepreneur ID, Topics Covered, Summary
- Submitted by: Community Mobilizer
- Function: Record mentoring or training visits conducted

### **FR3: Loan Disbursement Entry**

- Fields: Entrepreneur ID, Amount, Date, Purpose
- Submitted by: Community Mobilizer
- Function: Track financial support given to entrepreneurs

#### **FR4: Data Viewing and Reports**

- Community Mobilizer: View and edit only their own records
- Project Manager: View all records across villages, apply filters, and export data (e.g., to Excel/CSV)

### **4. User Access & Permissions**

| Role                | Permissions  |
|---------------------|--|
| Community Mobilizer | Add/edit data for assigned village only                  |
| Project Manager     | View all data, filter records, generate/download reports |

- All users must authenticate via login
- Permissions are role-based and enforced at API level
- Mobile-friendly access for field users

### **5. Reporting Requirements**

- View summary statistics (e.g., total entrepreneurs by village)
- Track number of mentoring sessions and loans given
- Generate downloadable monthly and cumulative reports
- Apply filters by date, village, or entrepreneur

### **6. Non-Functional Requirements**

- Mobile-responsive and accessible UI
- Lightweight and fast-loading pages
- Secure user login and session handling
- Regular database backups
- Uptime target: 99% or higher
- REST APIs must respond in under 2 seconds

### **7. API Requirements**

| API Endpoint   | Method | Description                                   |
|----------------|--------|---|
| /entrepreneurs | POST   | Register a new entrepreneur                   |
| /entrepreneurs | GET    | Retrieve list of all registered entrepreneurs |
| /mentoring     | POST   | Submit mentoring visit record                 |
| /mentoring     | GET    | Retrieve mentoring data                       |
| /loans         | POST   | Record a loan disbursement                    |
| /loans         | GET    | Retrieve loan disbursement data               |

- All endpoints will use JSON for request and response formats
- Basic token or session-based authentication required for all calls
- Role checks performed before accessing data

## **8. Selected Technology Stack**

The MIS system will be built using lightweight core technologies, avoiding frameworks to keep development transparent and straightforward.

### **Frontend**

- HTML5: Structure and content of the web interface
- Tailwind CSS: Utility-first CSS for responsive and clean styling
- AOS (Animate On Scroll): For modern, smooth scroll animations and transitions

### **Backend**

- Node.js: Backend API developed using core Node.js modules
- API Design: REST-style APIs using native HTTP server and routing logic

### **Database**

- MySQL: Relational database for storing structured project data

### **Architecture & Communication**

- RESTful architecture
- JSON used for client-server communication
- Role-based authentication (session or token)

### **Justification**

- Simple, easy to debug and deploy
- Avoids unnecessary complexity from frameworks
- Lightweight frontend improves speed and UX
- Tailored for small-scale MIS needs with high transparency

## **9. Future Enhancements (Optional Scope)**

- SMS/email alerts for key actions (e.g., loan disbursed)
- Admin dashboard with graphs and visual analytics
- Offline data collection (sync when back online)
- Multilingual support for Assamese/local languages

## **10. Conclusion**

This URS defines the scope, functionality, and technology for the development of a lightweight, effective MIS application to support the Mission Women Empowerment project. It is tailored to the project's grassroots nature, ensuring ease of use for field staff and efficiency for project managers.