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| www.i-saksham.org |
| Business Requirement Document |
| i-Saksham Mobile App |
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# About i-Saksham

i-Saksham works to Build community edu-leaders to enrich education experiences of underserved children for continued success. i-Saksham works in extremism affected areas, where schools are largely dysfunctional or highly strained. They train village youth as community leader who teacher children in the village. The youth is supporter for her career growth. i-Saksham has reached out to 5000+ children thorugh 150+ youth, so far.

# i-Saksham’s Vision

To track children’s profile, attendance, learning and personality growth, i-Saksham maintains data on google sheets. However, with it’s growing scale, it is become difficult to manage. There are delays in consolidating data and we have to repetitively spend time to get updates.

i-Saksham envisages that a centrally managed MIS with offline apps to help data collection in rural poorly-connected areas will help us in doing our work better. So, the MIS will have two parts –

1. A central DB managed through a web interface. Here we should be able to manage data of edu-leaders and children.

2. An app which can work offline and collects data on children profile, attendance and learning progress.

# Challenges with current set-up

Listed below are the challenges which i-Saksham is facing, and here the help i-Saksham is looking with mobile app solution –

1. Large data to be handled by operator. Data is on google drive which makes is cumbersome to update frequently.
2. Data repetitions – same kind of data is present on different sheets, due to that operator needs to enter the similar data at multiple sheets.
3. Asynchronous update – data is collected by different sources and then update later during end of day. This may lead to data loss or delay in availability.
4. No user front-end to access details frequently.
5. Reporting interface – currently excel sheets are being used with integrated code to see report at different level. Need a proper interface and easy to view reporting mechanism.

# Functional requirements

With new solution, i-Saksham is expecting these features to be rolled out –

## FR1 – Relational Database

A well designed database is required to maintain the data for i-Saksham, which should bring –

FR1.1 – Compact data structure

FR1.2 – Support to store data in Hindi

FR1.3 – Web based front end for DBA

FR1.4 – Cache for mobile app

## FR2 – Front-end for user

One easy-and-simple front-end for users which must satisfy these conditions –

### FR2.1 – Role Segregation

This app should clearly distinguish functionalities for different roles. The roles which this application should support are –

|  |  |  |
| --- | --- | --- |
| SR | Role | Functionalities |
| 1 | Manager/Admin |  |
| 2 | Buddy |  |
| 3 | Fellow |  |
|  |  |  |

### FR2.2 – Easy registration, login and password recovery

Access to application should be driven by registration and registration must be approved by Manager to ensure that right candidate is getting right level of access. Registration process must be simple with limited but mandatory details.

Login must not be needed by registered device for easy access. However, in case of device damage/lost, password-recovery or re-registration should be quick and with minimal effort.

### FR2.3 – User friendly interface

Application should support both English and Hindi languages. It should also give option to user, which language he wants to use.

Application must give font size selection as well to adjust the visibility, or the application should be self-adjusting the font to display on different screen resolution.

Navigation to different functionalities must be easy and handy.

### FR2.4 – Profile Display

### FR2.5 – Student List

### FR2.6 – Attendance Update

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### FR2.7 – Attendance Report

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## FR3 – Web Interface

# Non-Functional Requirements

NFR1 – Performance

NFR2 – Scalability

NFR3 – Maintainability

NFR4 – Cost Effective

NFR5 – Recoverability

NFR6 – Transportability