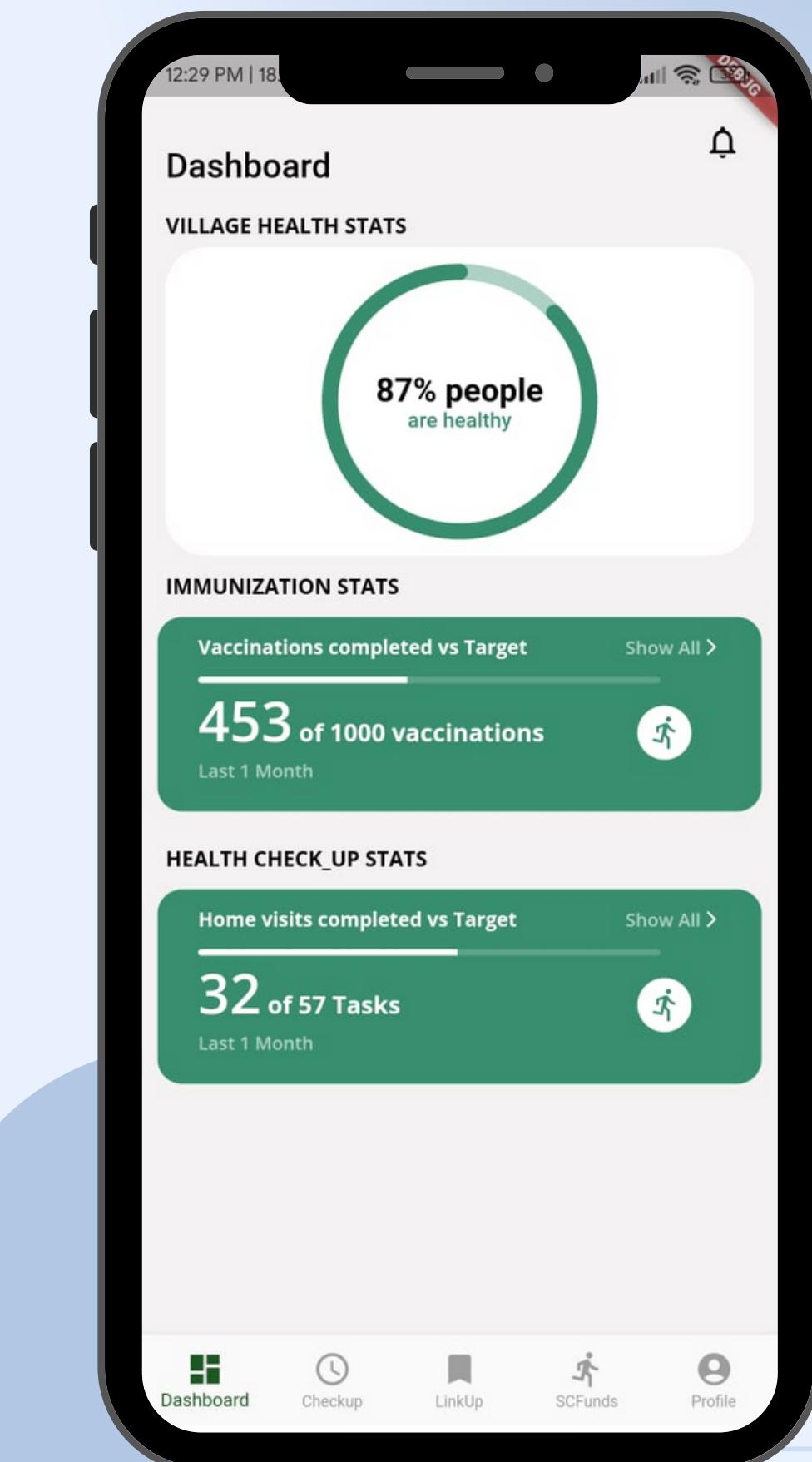


Team Insiders

SwasthyaGram

A Mobile App to enhance rural healthcare

Presentation



Problem Statement

Mobile technologies , to enhance rural healthcare.



Existing Rural Health Care

The existing Rural Health care follows this hierarchy:

| No. of people Handled | Hierarchy | Relationship |
|-------------------------|-------------------------------|---|
| about 80,000 to 120,000 | Community Health Centre (CHC) | Referral Unit for 4 PHC's |
| about 20,000 to 30,000 | Primary Health Centre (PHC) | Referral Unit for 6 sub centres |
| about 3,000 to 5,000 | Sub Centre | Connection between Primary Healthcare and community |

1-ANM and 1-Male health worker

Voluntary worker to help the ANM

1-Female Health Assistant LHV's

1-Male Health Assistant

Staff at every Sub Centre

Statistics

- 78% Indians are from Rural Areas.
- As of 2018, there are 158,417 Sub Centres.
- Meaning that there is about one Sub Centre for 6,400 people.
- Which is a huge amount to handle for a staff of just about 4 people.
- Records are taken through checklists physically and often are lost.
- Clearly an efficient way has to be built for handling this huge disparity in number, and sustainable method of Record Keeping.



*Data taken from Rural Health Statistics Bulletin, 2018

Problems in Current System



Poor record keeping

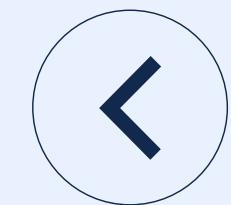


Poor retaining from
LHV's

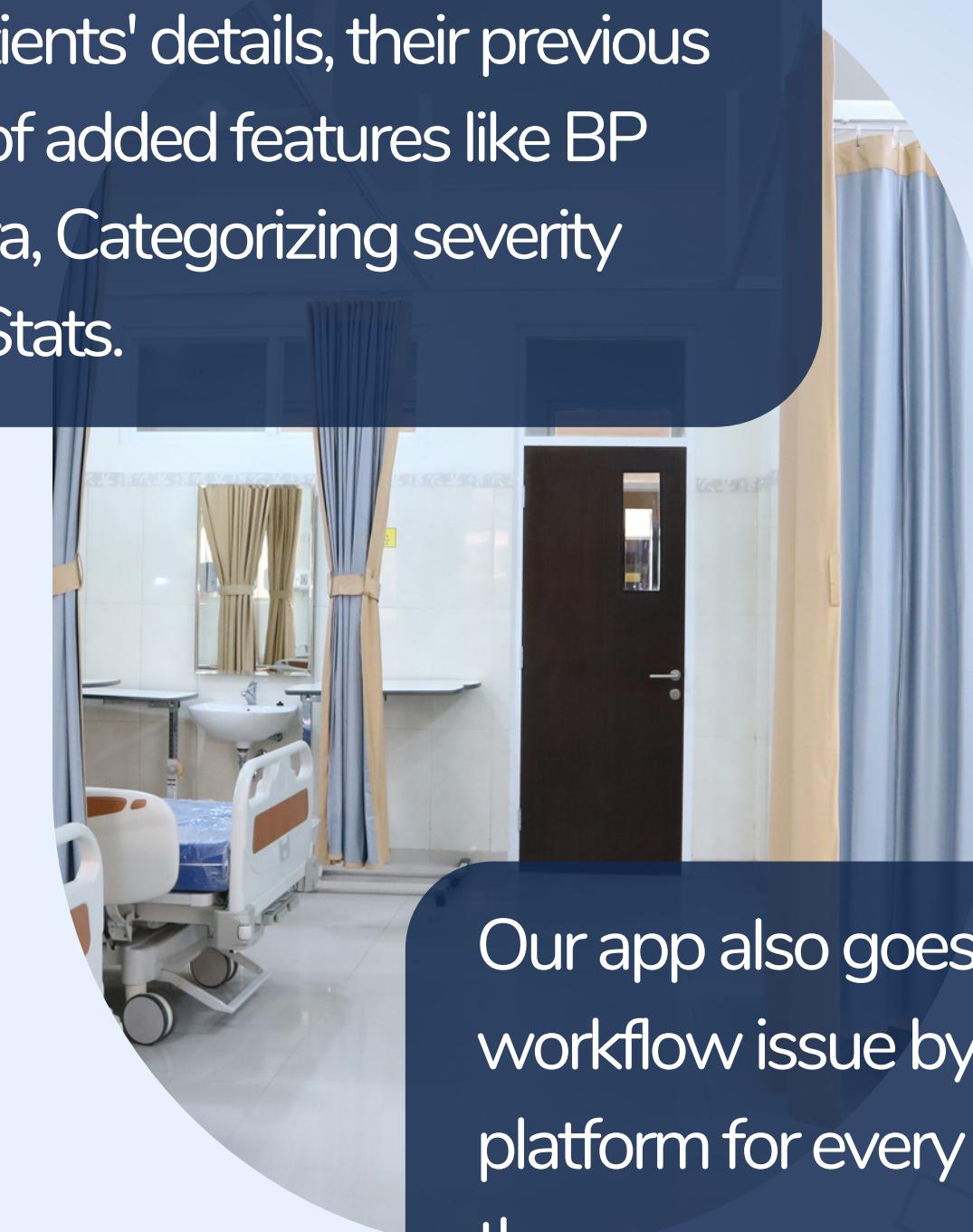


No Workflow
Management Platform

Our Solution



We have built the SwasthyaGram App, which keeps a digital record's of all the patients' details, their previous ailments, along with bunch of added features like BP tracking using mobile camera, Categorizing severity and tracking Immunization Stats.



Our app also goes around the workflow issue by providing one platform for every Sub centre, PHC's in the company.



How does our App work?



- New profile is created with fields like Height, Weight etc if not done.
- All the previous ailments are fetched.
- The problems can be put into "tags" i.e. names of the ailment.
- If LHV's assistance is required, the checkbox is checked.
- A message with a "label" is sent to the LHV(Red-High Priority, Orange-Medium Priority, Blue-Low Priority)
- The Dashboard provides two taskbars, The Daily and Monthly Progress Indicators.
- LHV receives Notifications about patients needed to be attended, by the above mentioned "Labels".
- Biweekly analysis is done on Sub Centres, through forms.
- In cases like an Epidemic, the PHC's will step in and takes charge and Tasks will be assigned to Sub Centres.

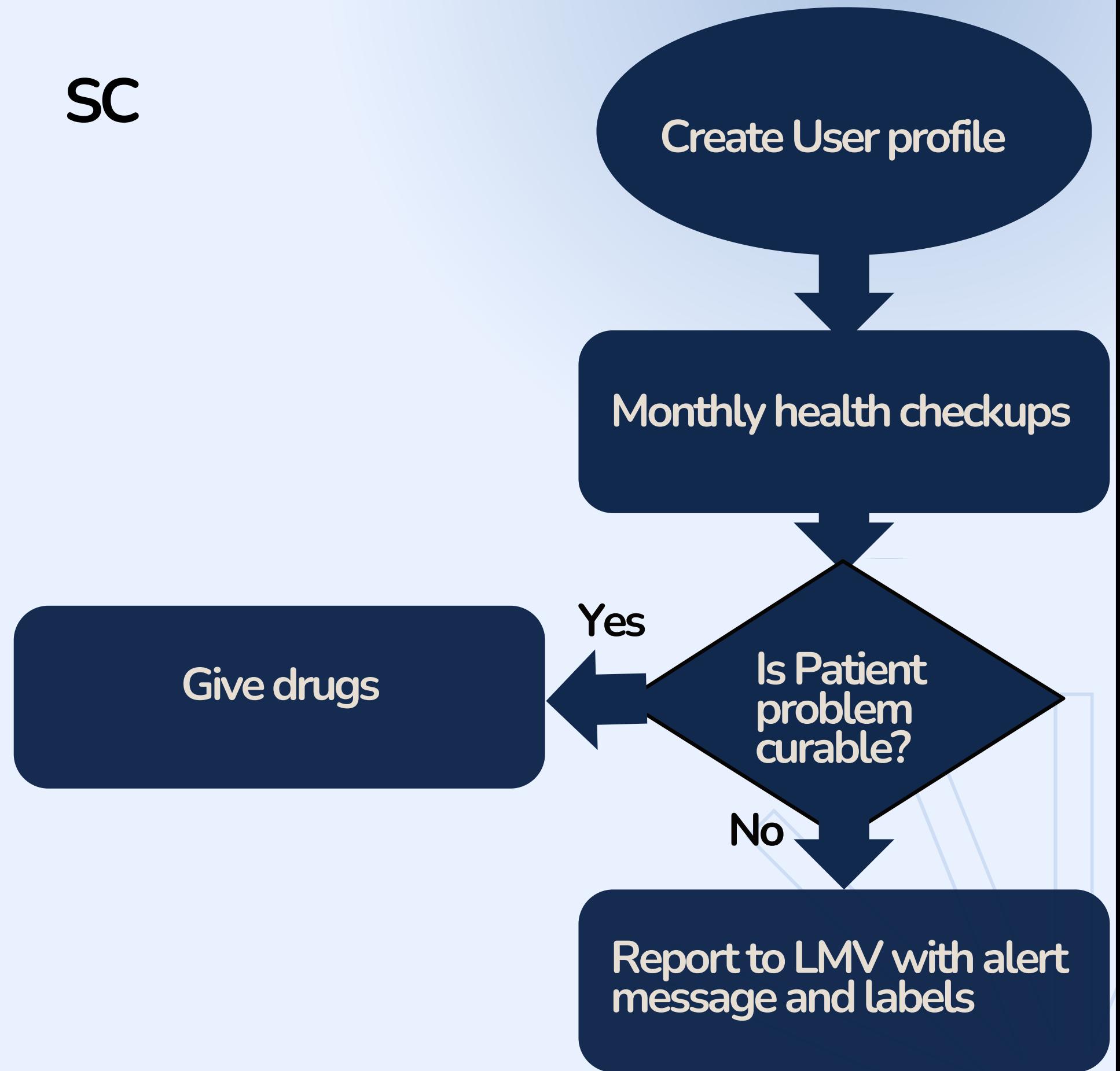
Tasks can mean spreading awareness etc.

How does our App work?

Flowchart



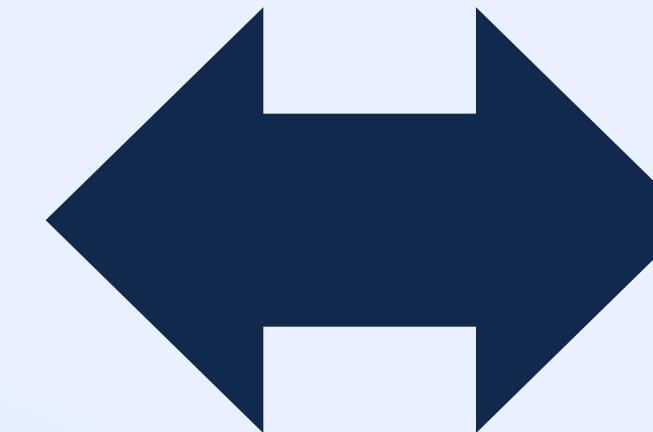
SC



How does our App work?

Flowchart

SC



LMV

Resolve patient problems
(emergency ones first) based
on label

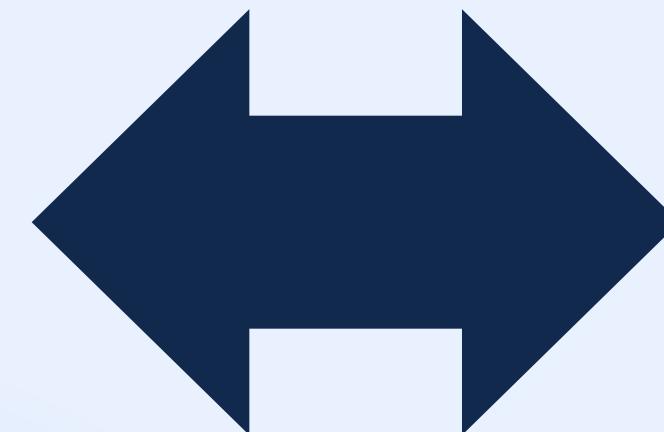


Create weekly behavioural
change in health of 6
subcentres

How does our App work?

Flowchart

LMV



PHC

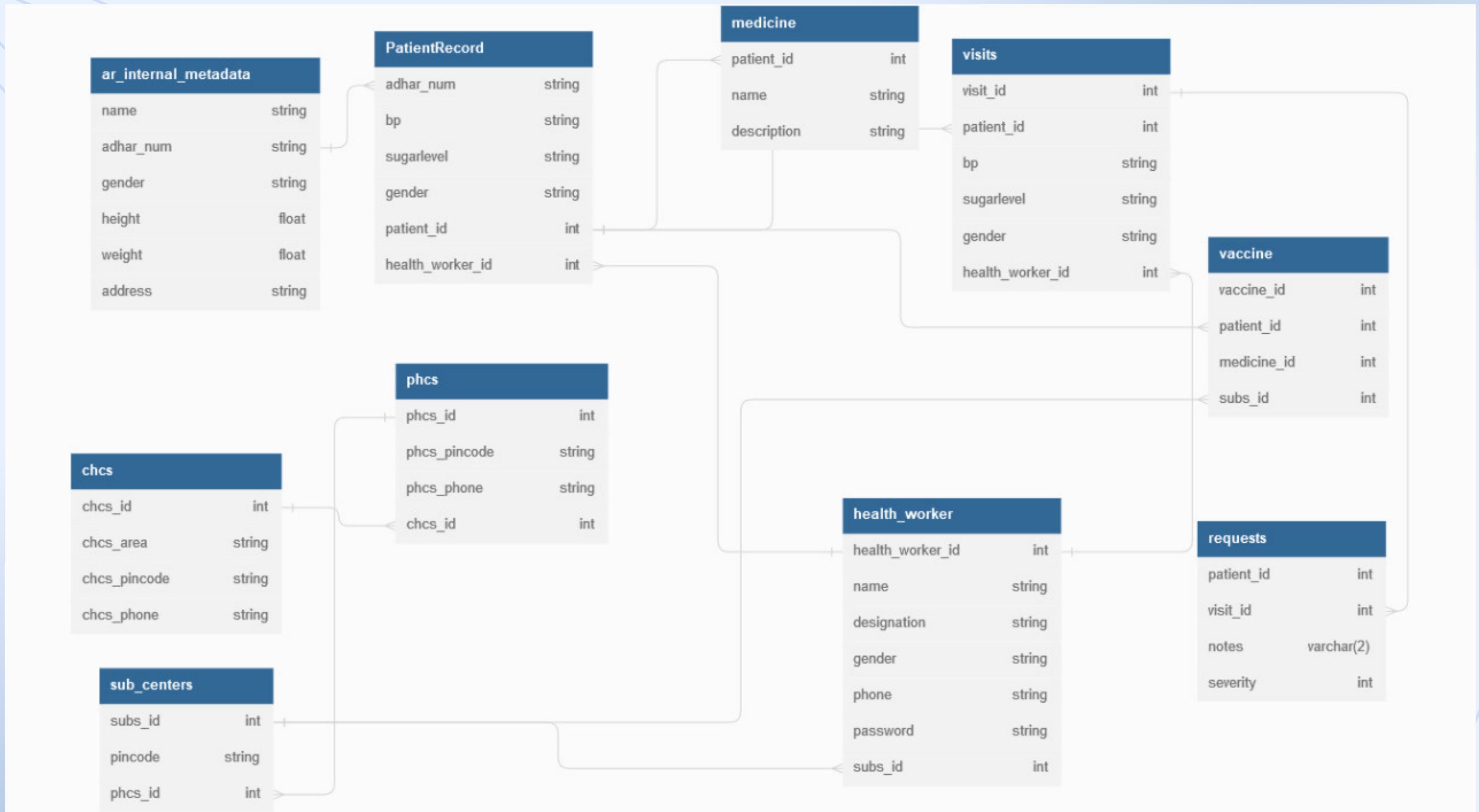


Hospital service if not available

Request to govt for more equipment at outbreak

Assign jobs to SC for awareness which is task based

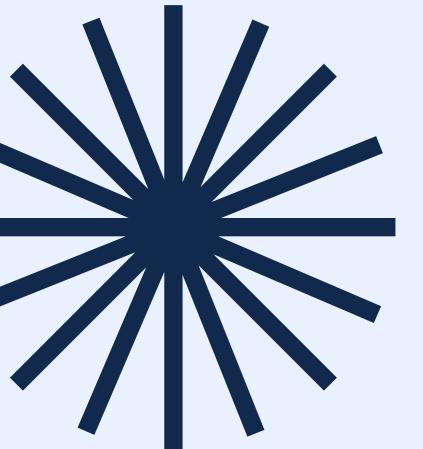
ER Diagram of our Database



6 Benefits of SwasthyaGram

- 01. Easy Record maintenance
- 02. Categorization on basis of Severity
- 03. Easy on the eye UI
- 04. BP measuring
- 05. Easy Communication
- 06. Task based

How to integrate?



The previous records have to be integrated with the new database to maintain consistency

This can be done by manually adding old data to the Database on a case-by-case basis, or on frequent checkups.

Text Stack Used

01. Flutter

02. Dart

03. Ruby on Rails

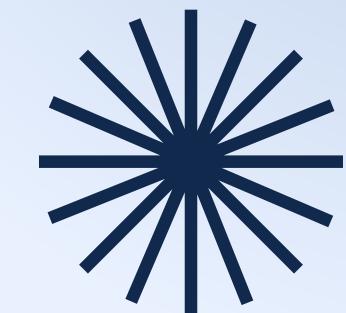
04. MySQL

05. NGROK





THANK YOU



Team Insiders