

Ghar Suraksha

Caffeine_Overflow

SG_293

Team Leader: Abhay Desalli

The Idea

GharSuraksha, the only monitoring system you will ever-need.

From monitoring houses to tracking workers, from visualizing progress to real-time chatbot.

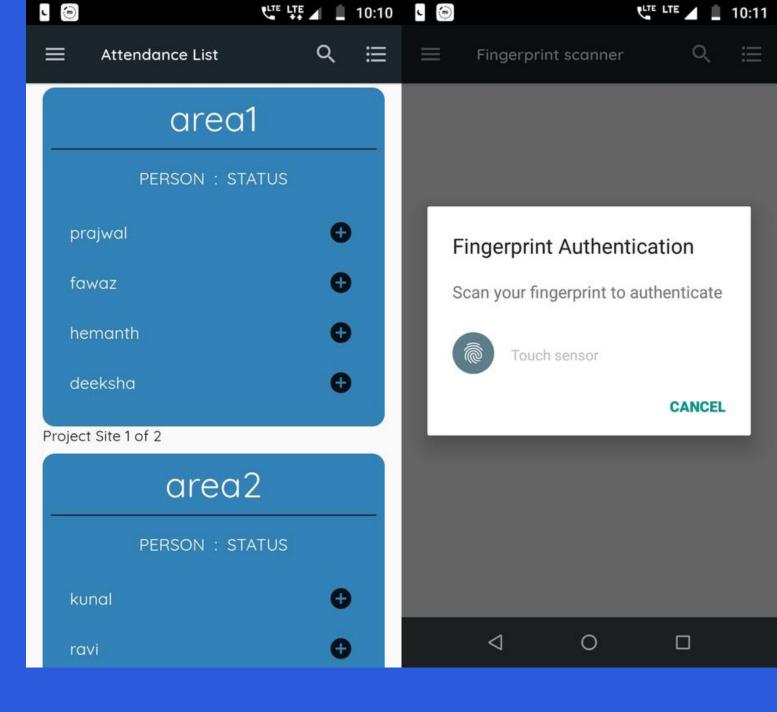


Problem 1

Inaccurate figures of labor and construction materials, by contractors.



Solution 1



A real-time digital biometric attendance of all the laborers.

Problem 2

Lacking ways to measure & visualize the progress, deadlines, delay & work due.

Solution 2

Image Processing to predict if the weekly timelines are met with just a picture from mobile!

Problem 3

Huge communication gap between the public and construction managers leading to ambiguity

Solution 3

Suraksha, easy-to-use chatbot to obtain house details, register complaints & queries.

GIS

All Geographical data related to that particular area

WORK-IN-PROGRESS

The construction part where the progress is being done.

ANONYMOUS PORTAL

People can register for complaints in order to improve the quality of work.

RIGHT 2 INFORMATION

People will have accountability to find out where their money goes.

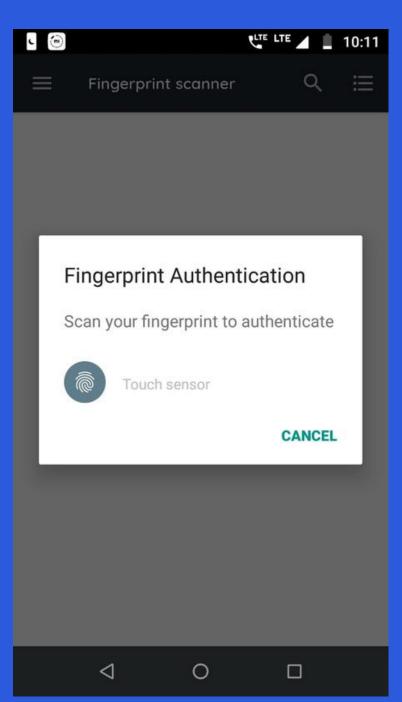
1 Click Image Progress Report Multi-Feature Dashboard Biometric Attendance Dynamic Chatbot

UNIQUE SELLING POINTS

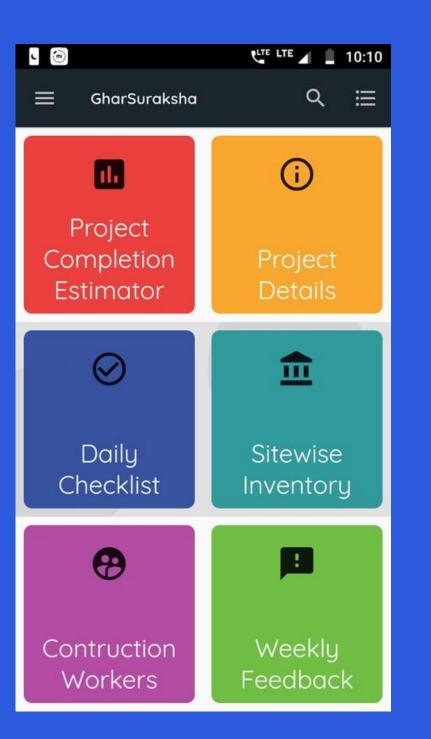


IMPLEMENTATION &



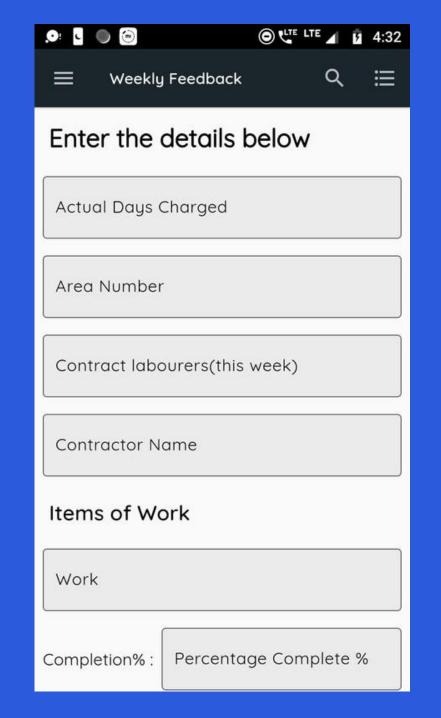


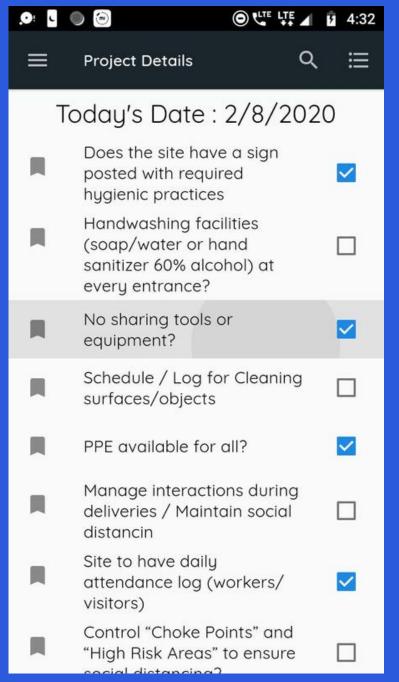












GHIEGHISTS

Suraksha Chatbot

Q :

Hey! How Can I Help You

Here's what I can do -

- 1) View construction details
- 2) Take me to website
- 3) View contractors
- 4) Take feedback
- 5) View site details

View site details

Site SIKK056:

Area: 350 acres

Lead Ctr.: A. Manoj Patil Address: 567 Lane, Lachen,

Sikkim

Estimated Comp.: 07/21 No of Workers assigned at

site: 80-90



Suraksha Chatbot

Q :

View construction details

Site SIKK056:

Completion %: 78%

Estimated Completion: 07/2021

Site SIKK057:

Completion %: 66%

Estimated Completion: 08/2021

Site SIKK058:

Completion %: 82%

Estimated Completion: 05/2021

Site SIKK057:

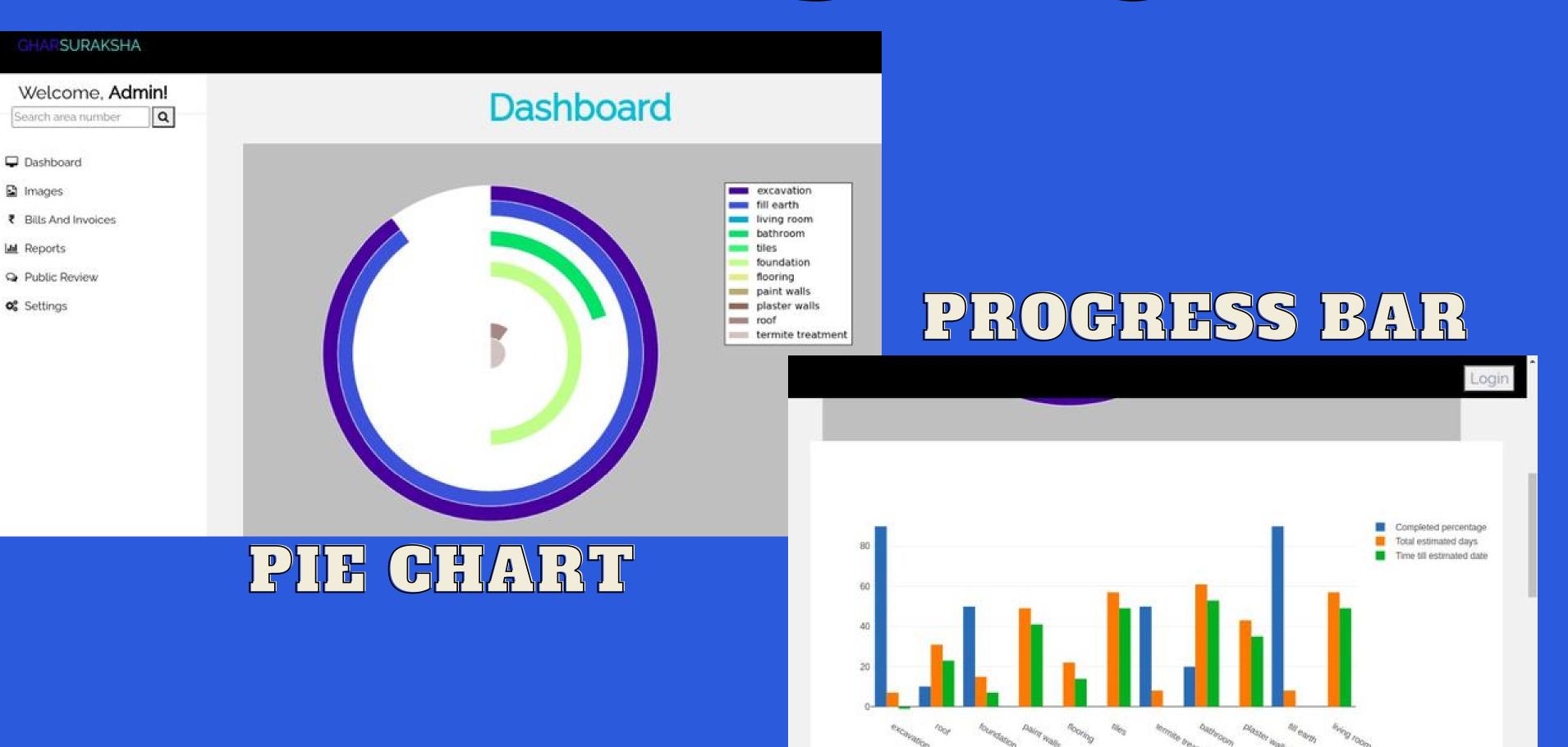
Completion %: 90%

Estimated Completion: 05/2021

Site SIKK057:

Completion %: 93%

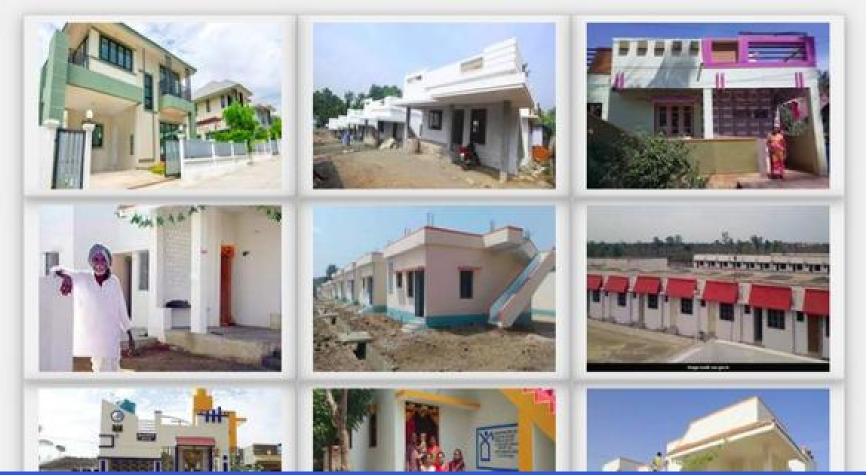
Estimated Completion: 04/2021



Admin!

dmin!





HOUSE INAGES

REPORTS AND REVIEWS

Login

Reports

Pick report to print

Area: 1 Date: 2020-08-01 15:45:04:181000+00:00

→ Print Report

Public Review And Opinion

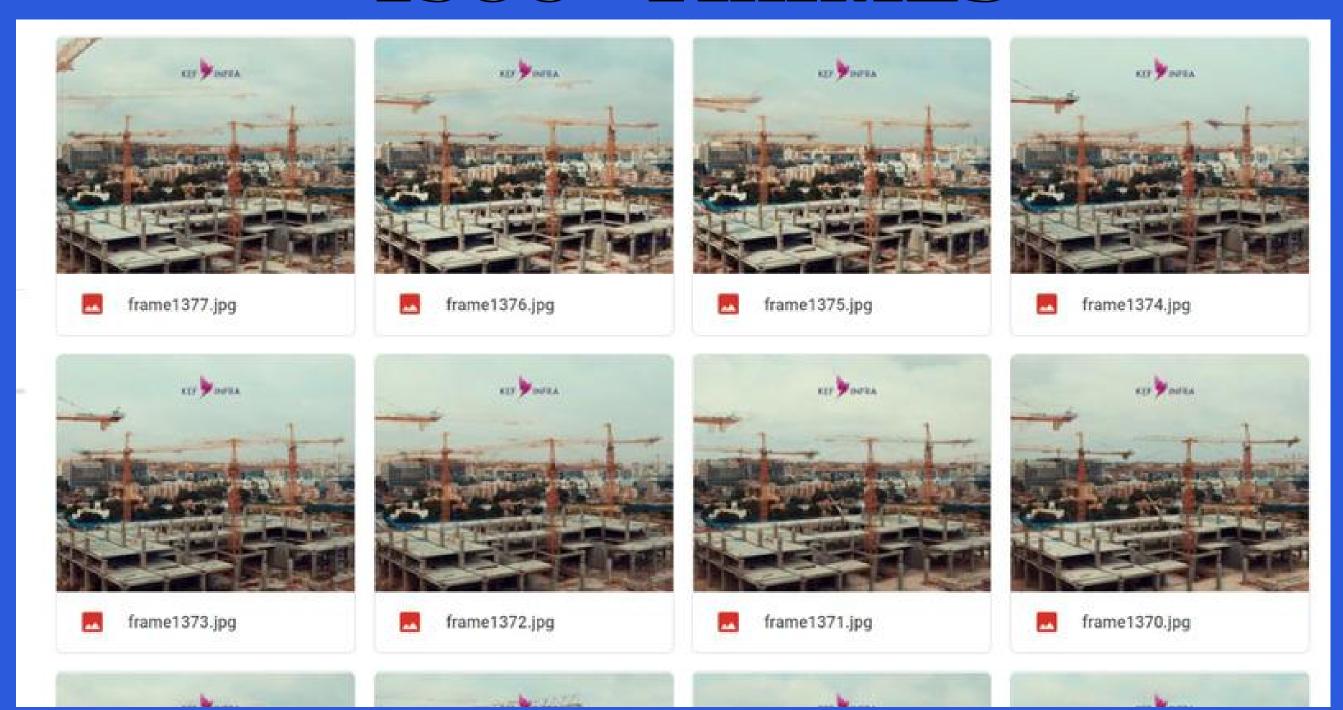
USERNAME

COMMENTS

Container Right

iR2WfFoHAjMoMGKYPNx3 dummy feedback 1 noNGZJgTWhhu74RaHxAJ dummy feedback 2

BREAKING SURVEILLANCE VIDEO TO 1500+ FRAMES



USING SSIM IMAGES ARE COMPARED AND THE CONSTRUCTED PART IS IDENTIFIED





USING DEEP-LEARNING WE AHAVE DEVELOPED A SURFACE CRACK DETECTION METHOD FOR BETTER QULAITY ASSURANCE



AFTER RUNING ML MODEL

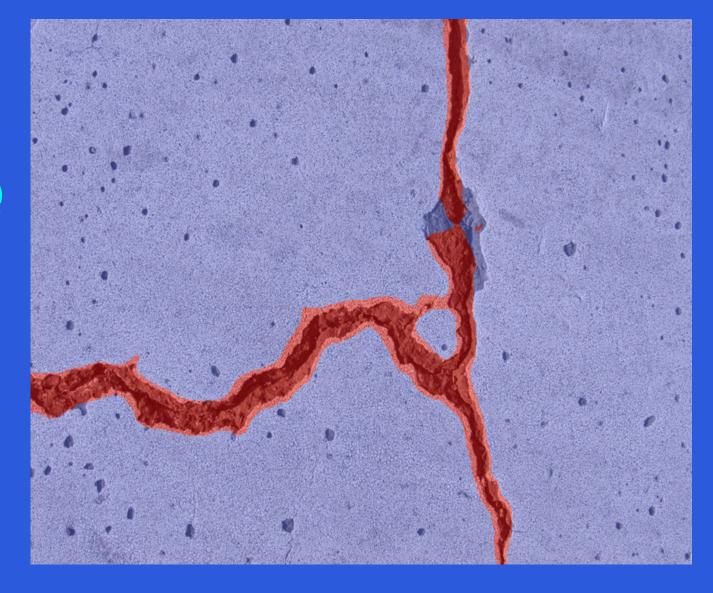
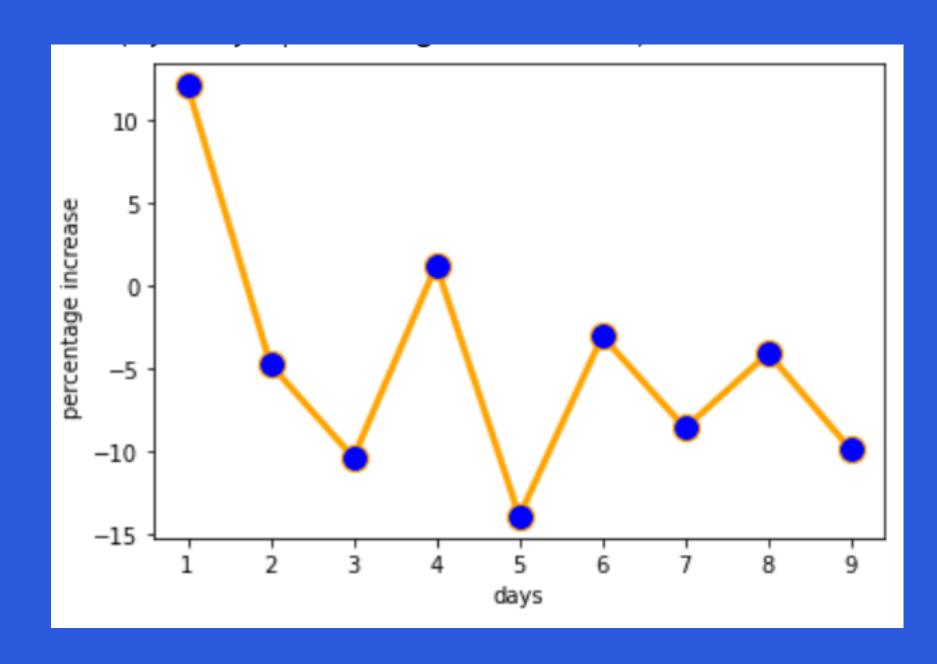
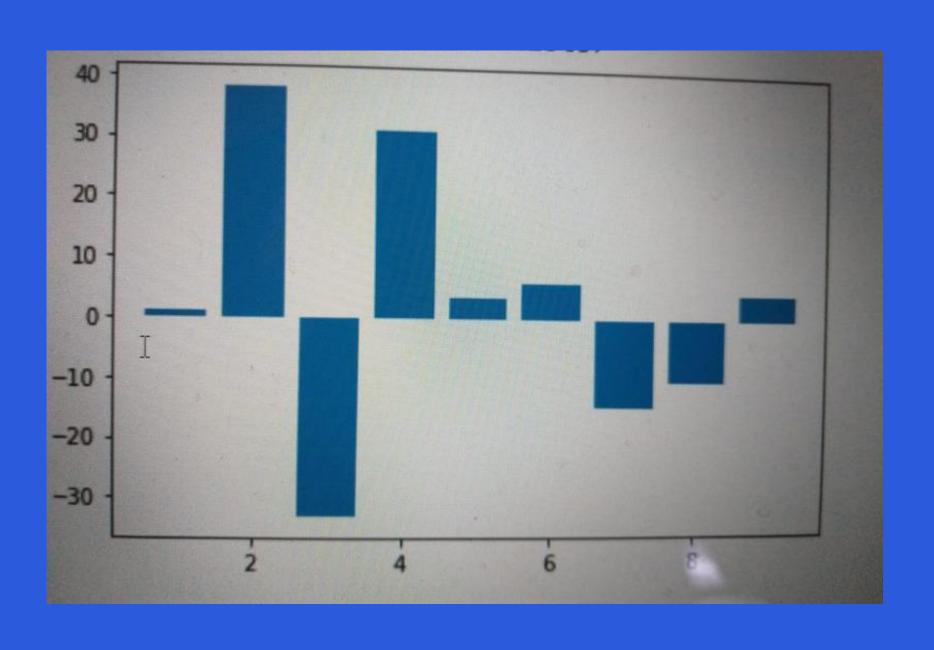


IMAGE PROCESSING RELATIVE PROCESS

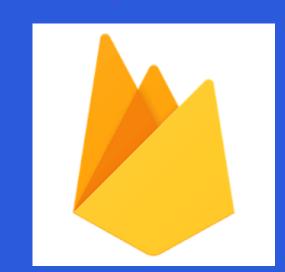




DAILY PROGESS



HTML-CSS FLASK FIREBASE PLOTLY



FLUTTER FIRESTORE





OPENCY SCIKIT-LEARN GOOGLE-COLAB