

Code For
Good 2023

Team 31

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Problem Statement

- Governments in India are facing difficulties in managing urban development sustainably.
- Sensing Local Volunteers are dropping off due to hustle being employed.
- Lack of streamlined data collection(Photos and videos).
- Requires more time to cover less distance.
- As a result, walkability audits exhibit reduced effectiveness and limited scalability.



sensing local

OUR SOLUTION

- We developed a user-friendly and accessible mobile application for citizens to document walkable areas as they traverse the streets.
- By simply opening the application, users can effortlessly enable the camera and capture walkable areas with a single click of a button. This streamlined process will contribute to produce reliable evidence based data along with Geolocation.

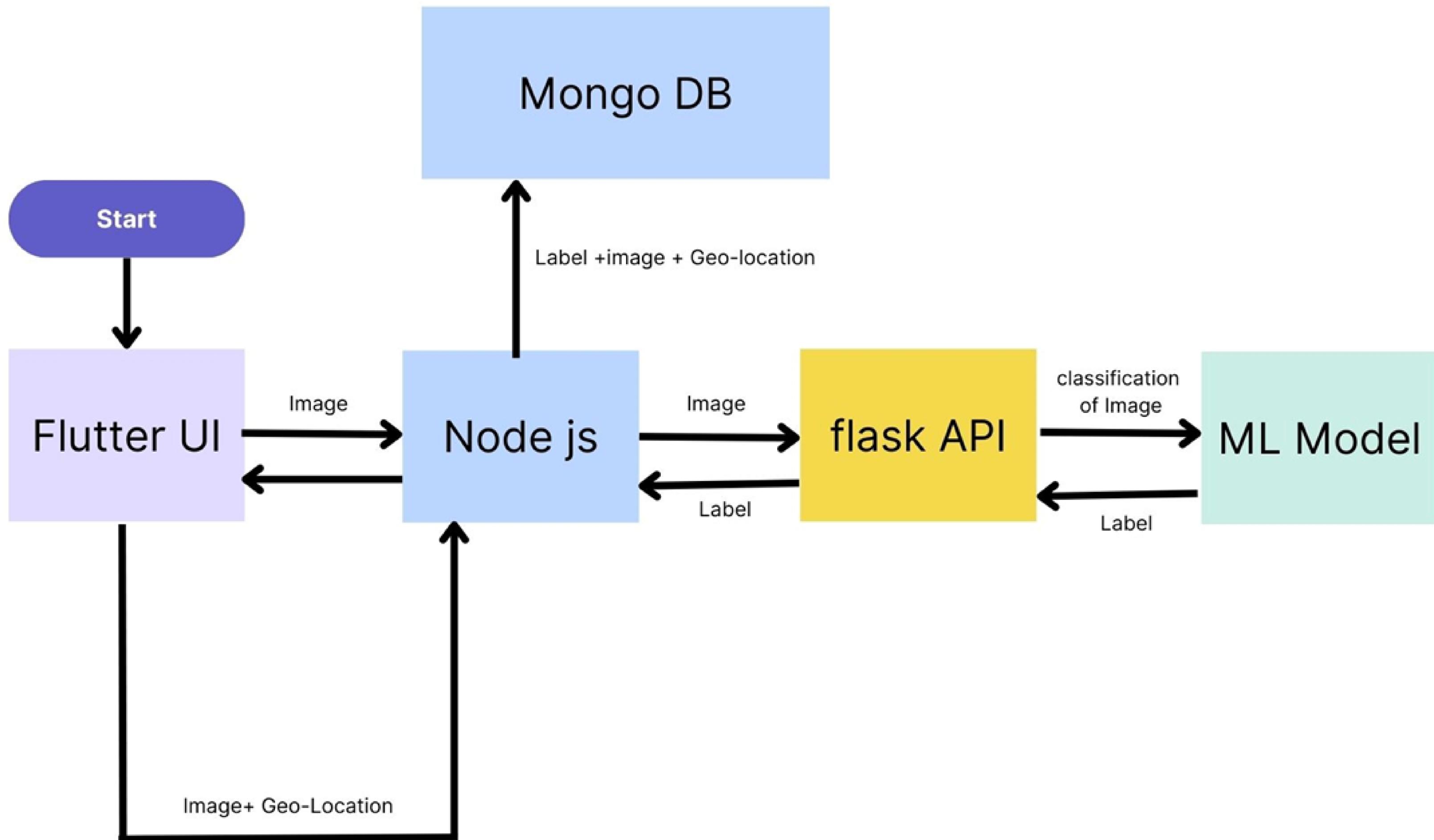


APP

Tech Stack

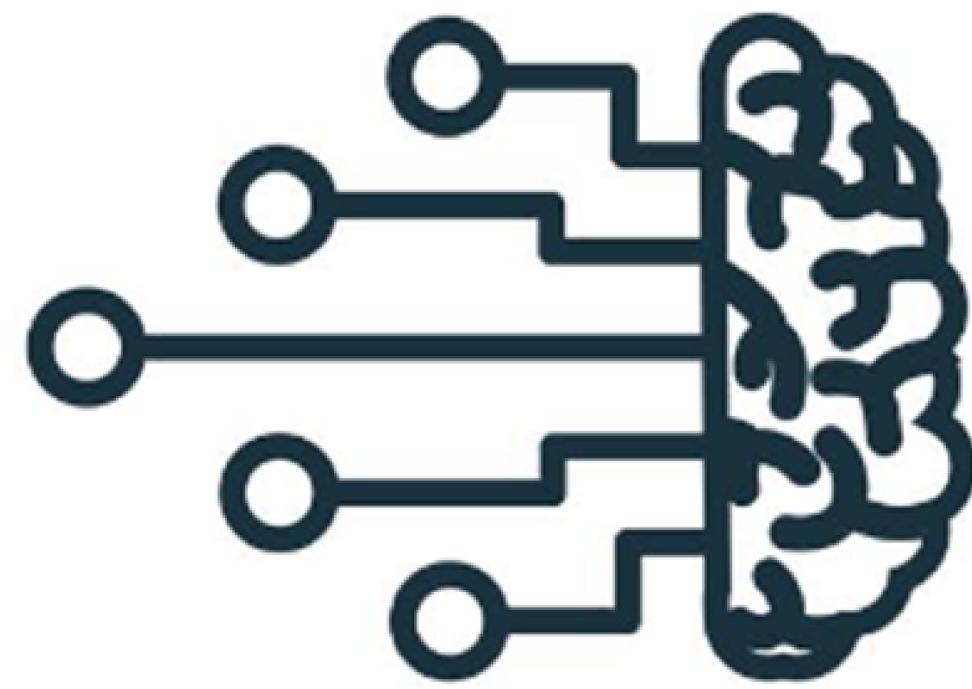


Flow Diagram



ML Model

- The Underline framework used is CNN.
- We are using transfer learning using Vgg 16 pre trained model.
- There are 17 categories.
- We have took a dataset of 600 images.

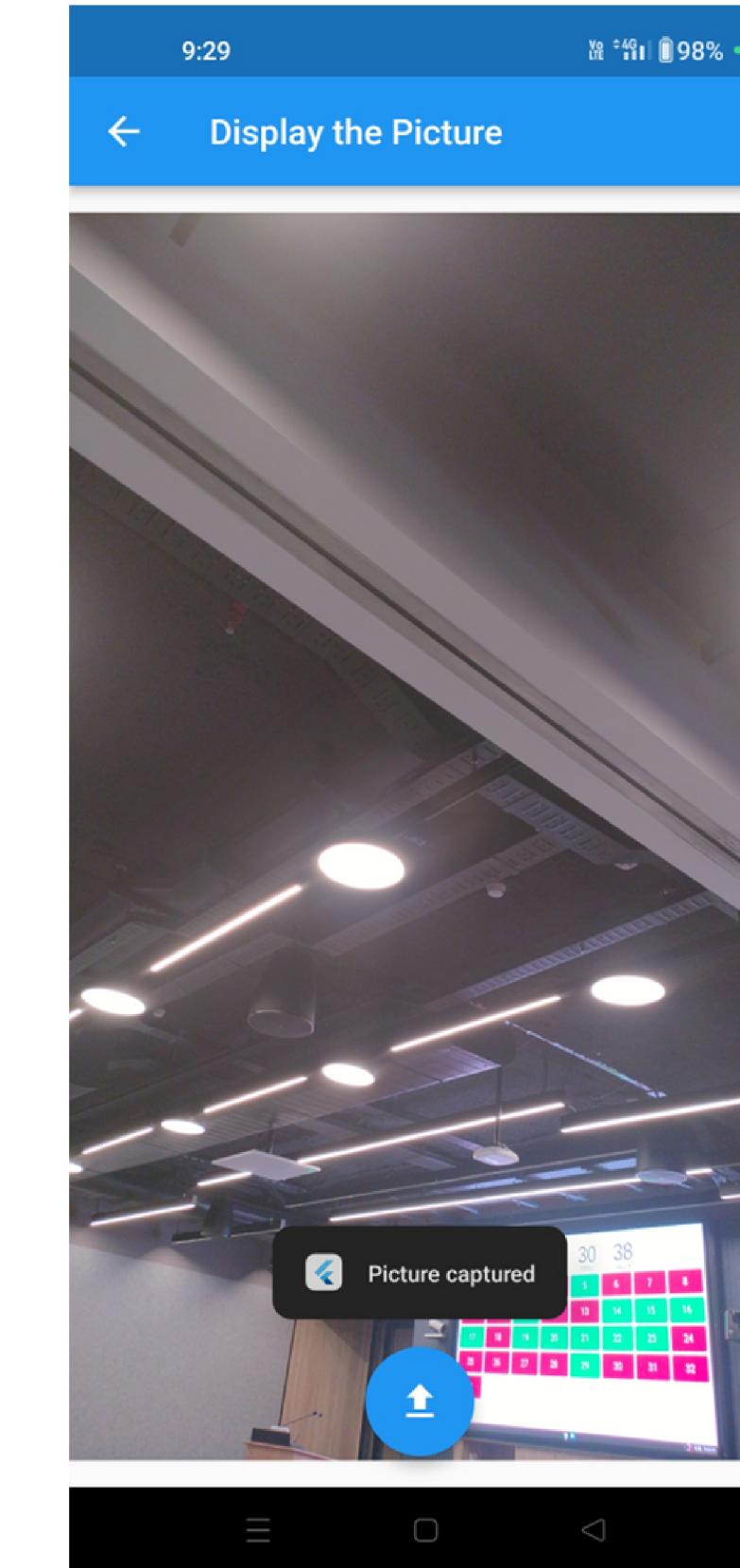
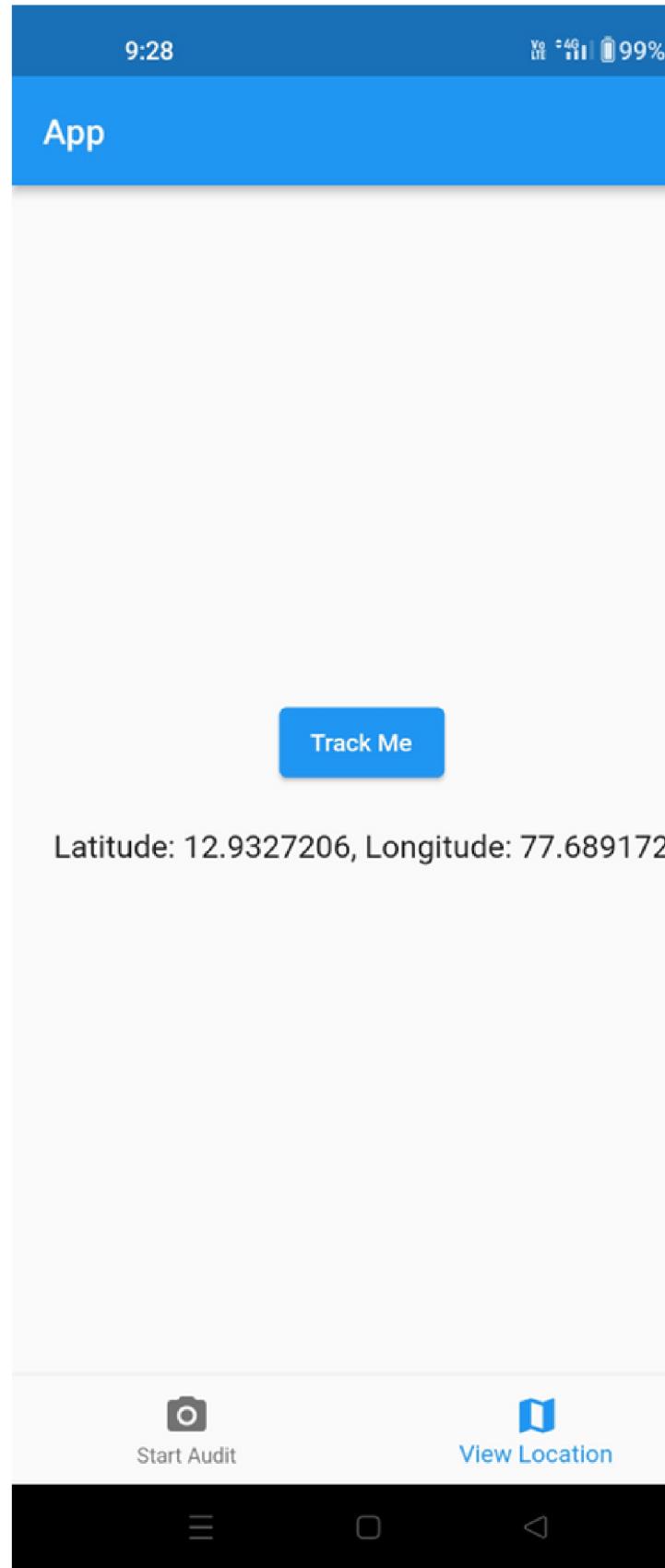
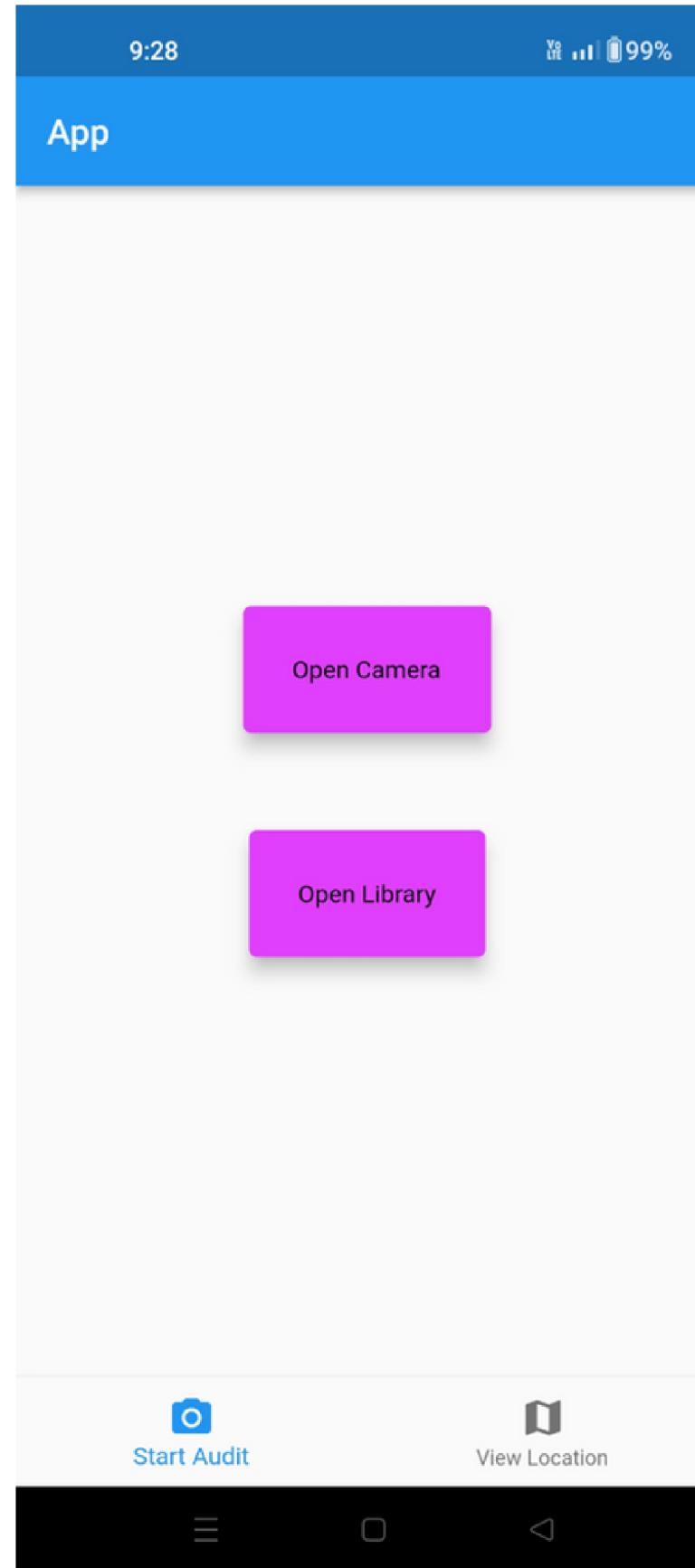


Future Scope

- Visual representation for the various cases of footpath quality.
- Modification of visual plotting based on latest data.
- Integration of video feature for the line issue.
- Constant Appreciation and Encouragement towards the cause by giving the volunteers badges of appreciation, which they can put up on the social media platforms.



Screenshots of the solution





Thank
you!