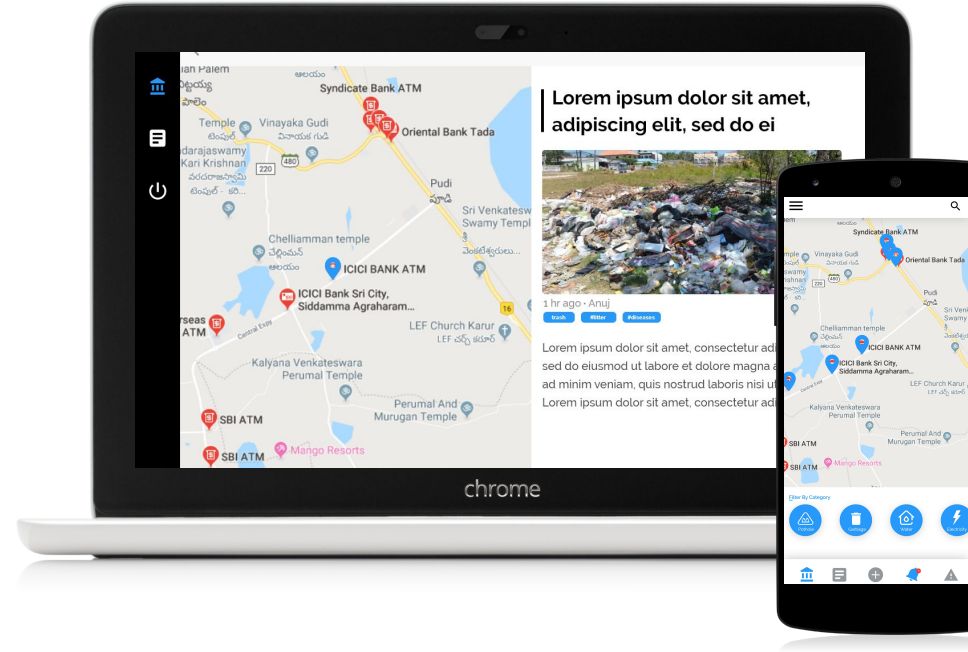# Team 6

1. Sri Sailesh Meegada
2. Farazuddin Mohammed
3. Dhruv Nair
4. Shubh Vanvat
5. Siddhant Jain
6. Vineet Sharma

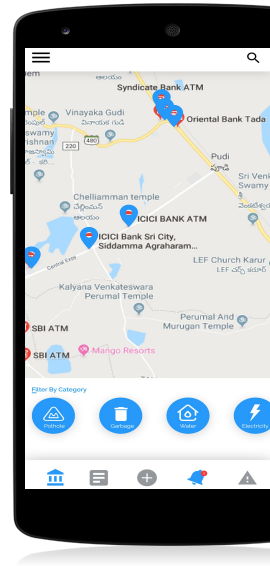# Problem statement

➔ Most people don't report local problems, apprehending that their efforts might be futile, due to which issues like potholes on roads, dumping of trash, etc might take very long to be addressed.

➔ Even if the issue is reported it is not known to other users so that they can support for immediate action to be taken on the issue.

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Elevator Pitch

➔ CITRA provides a resilient and fast communication system. Each issue verified by people is incentivized with a built-in credit system.

➔ A system where transparency is of utmost importance and existing issues can be viewed with their progress being monitored by all the residents nearby, putting more weight on the resolution of the issues, so as to help authorities act faster.

➔ SOS alert so as to provide immediate help from nearby authorities as well as residents.

CITRA

Public Civic Issue Tracking and Mapping Platform
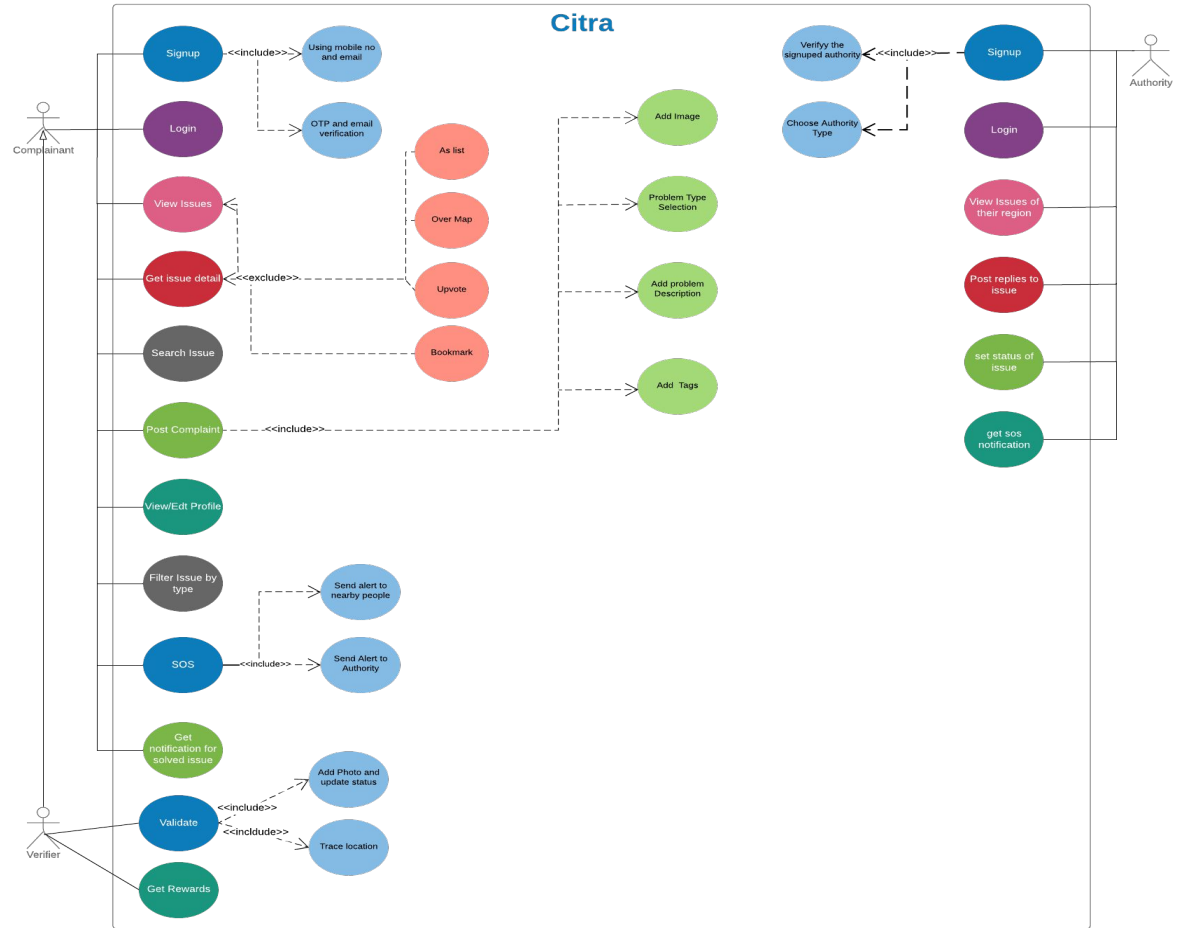
CITRA is a platform to reduce communication gap between government officials and people. It has :-

- A mobile app where residents can report, verify, communicate, and monitor progress of each and every issue that interests them or that happens around them.
- A web app for authorities to view their locality issues, see people reviews, and update progress on the issue.

Competition Matrix

Key Features	CITRA	Twitter	Swachh Bharat
Transparency	✔		☐
Issue Monitoring	✔		✔
Issue Reporting	✔		✔
User Base	Small	Large	Medium
SOS Alerting System	✔		

Use Case

Citra

- Signup <<include>> Using mobile no and email
- Login — OTP and email verification
- View Issues — As list, Over Map, Upvote, Bookmark
- Get issue detail <<exclude>>
- Search Issue
- Post Complaint <<include>> — Add Image, Problem Type Selection, Add problem Description, Add Tags
- View/Edt Profile
- Filter Issue by type — Send alert to nearby people
- SOS <<include>> Send Alert to Authority
- Get notification for solved issue
- Validate <<include>> Add Photo and update status, <<incldude>> Trace location
- Get Rewards

Complainant

Verifier

Authority
- Verifyy the signuped authority <<include>>
- Choose Authority Type
- Signup
- Login
- View Issues of their region
- Post replies to issue
- set status of issue
- get sos notification

Timeline

September
Product Research
UI Design
Login/Signup

October
Search View
Notification View
Authority Dashboard
Post Detail
Post Compose

November
Authority Issue Search
SOS View
Docker Packaging
App Hosting

API Timeline

2019	Sep	Oct	Nov

Product Research — 1 Sep - 7 Sep

Product Design — 7 Sep - 14 Sep

User Auth and Profile API — 14 Sep - 21 Sep

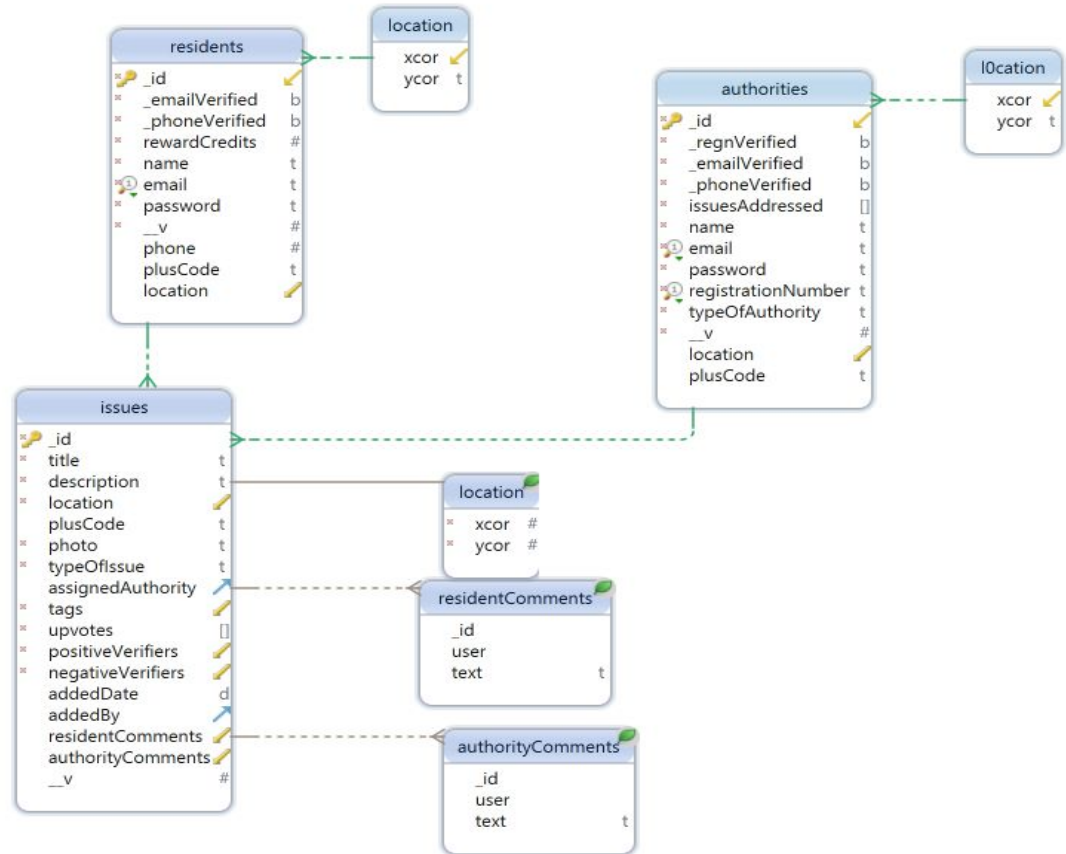**Issues API** — 21 Sep - 1 Nov

SOS Feature — 25 Oct - 29 Oct

Search API — 5 Oct - 18 Oct

Testing — 18 Sep - 16 Nov

Docker Image Build — 16 Nov - 19 Nov

DB Schema

Tech Stack

Mobile Client - Resident

- React Native

Web Client - Authority

- React JS

Backend

- Express JS
- Mongo DB

Hosting

- Docker
- AWS/Digital Ocean

CI and Testing

- Travis CI, Mocha+Chai, Jest