

## Location sharing application

A **location sharing application**, where users can add their current location as asset and share useful features with a third party (user/application) without revealing raw geo coordinates.

### Functional Requirements

- The application should use Metamask to execute transactions on the network.
- Each user is allowed to:
  1. Add one or more locations and save it with a tag.
  2. Extract information from that geolocation and save it with the geolocation.
- Other users/applications should be able to request/verify the extra information from the user and pay when the information is received/verified.
- Each location should:
  1. Should have a tag: like home, office etc
  2. Should have the exact geolocation (encrypted)
  3. Other information extracted using google api as a json object such city, country, street etc.
  4. These should be stored on the network as users' private assets.
- Each request for the asset should only ask for this one or more non encrypted information with fixed price for each request. A sample request could be user X [city, country] or user X [street]. Price for each piece of information is determined by the owner and should be displayed at point of request.
- Ether should go to the owner.

### Tech Stack

- **Solidity** (Smart Contract)
- **Ganache** (Local ethereum test blockchain for testing)
- **Truffle** (DApp Framework)
- **Web3.js**
- **Metamask**
- **Ethereum Network**
- **HTML, CSS, JS/Angular/React**