

## Installation Steps

1. Unzip the folder EHRs
2. Run "npm install" from project location
3. Run "npm install -g truffle"
4. Run "npm install -g ganache-cli"
5. This is how the package.json file will look

```
{ } package.json x
1  {
2    "name": "pet-shop",
3    "version": "1.0.0",
4    "description": "",
5    "main": "truffle.js",
6    "directories": {
7      "test": "test"
8    },
9    "scripts": {
10     "dev": "lite-server",
11     "test": "echo \"Error: no test specified\" && exit 1"
12   },
13   "author": "",
14   "license": "ISC",
15   "devDependencies": {
16     "lite-server": "^2.3.0"
17   },
18   "dependencies": {
19     "ganache-cli": "^6.1.6"
20   }
21 }
22
```

6. Run "truffle test" to make sure all contracts are running fine

```
PS C:\Users\I304674\Desktop\Manu\SampleProject\EHRs> truffle test
Using network 'development'.

Compiling .\contracts\Adoption.sol...
Compiling .\contracts\Migrations.sol...
Compiling .\test\TestAdoption.sol...
Compiling truffle\Assert.sol...
Compiling truffle\DeployedAddresses.sol...

TestAdoption
  ✓ testUserCanAdoptPet (264ms)
  ✓ testGetAdopterAddressByPetId (232ms)
  ✓ testGetAdopterAddressByPetIdInArray (200ms)

3 passing (2s)
```

7. Run "npm run dev" to start the project

- Launch the application on **chrome** : <http://localhost:3000/>

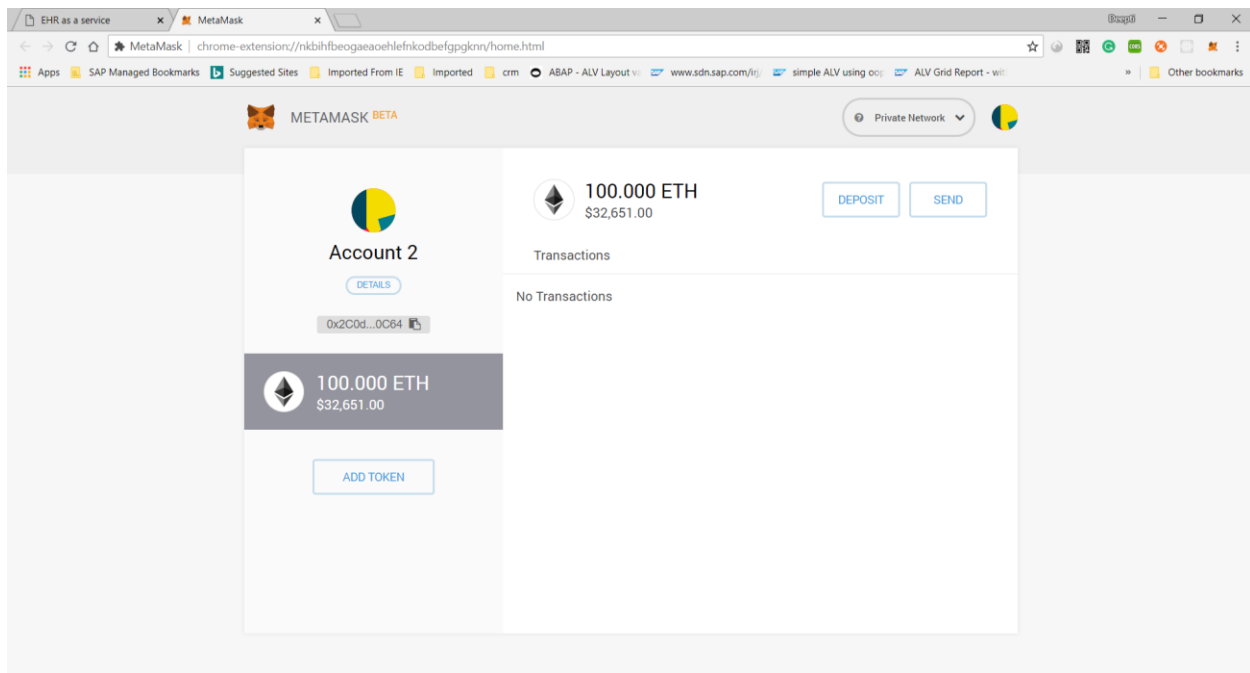
```
PS C:\Users\I304674\Desktop\Manu\SampleProject\EHRs> npm run dev

> pet-shop@1.0.0 dev C:\Users\I304674\Desktop\Manu\SampleProject\EHRs
> lite-server

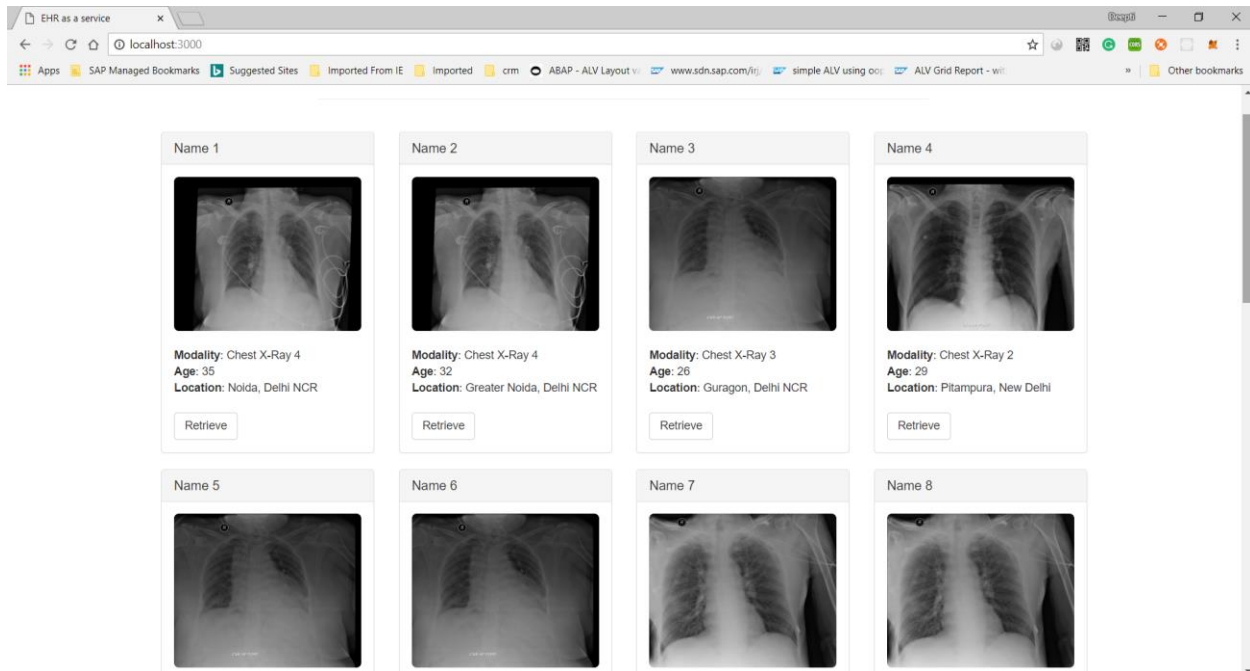
** browser-sync config **
{ injectChanges: false,
  files: [ './**/*.html,css,js' ],
  watchOptions: { ignored: 'node_modules' },
  server:
    { baseDir: [ './src', './build/contracts' ],
      middleware: [ [Function], [Function] ] } }
[Browsersync] Access URLs:
-----
    Local: http://localhost:3000
   External: http://172.16.22.170:3000
-----
       UI: http://localhost:3001
  UI External: http://172.16.22.170:3001
-----
[Browsersync] Serving files from: ./src
[Browsersync] Serving files from: ./build/contracts
[Browsersync] Watching files...
18.08.12 11:52:37 304 GET /index.html
18.08.12 11:52:37 304 GET /css/bootstrap.min.css
```

## Test Document

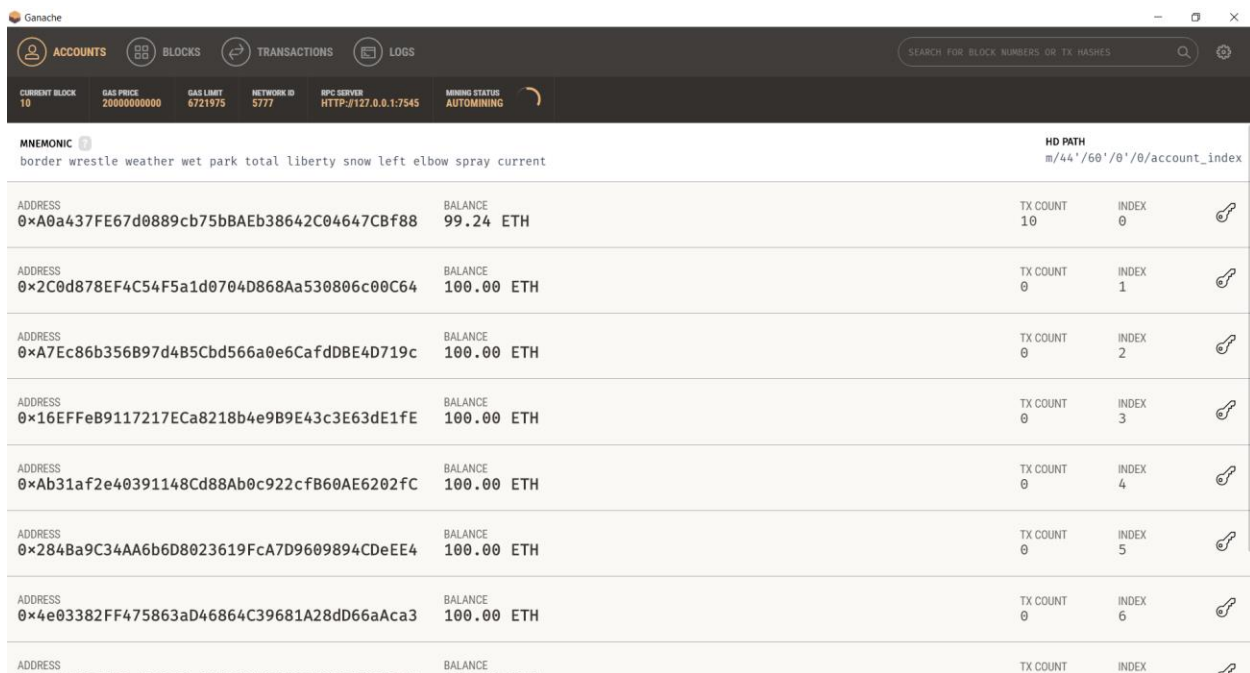
- Metamask page



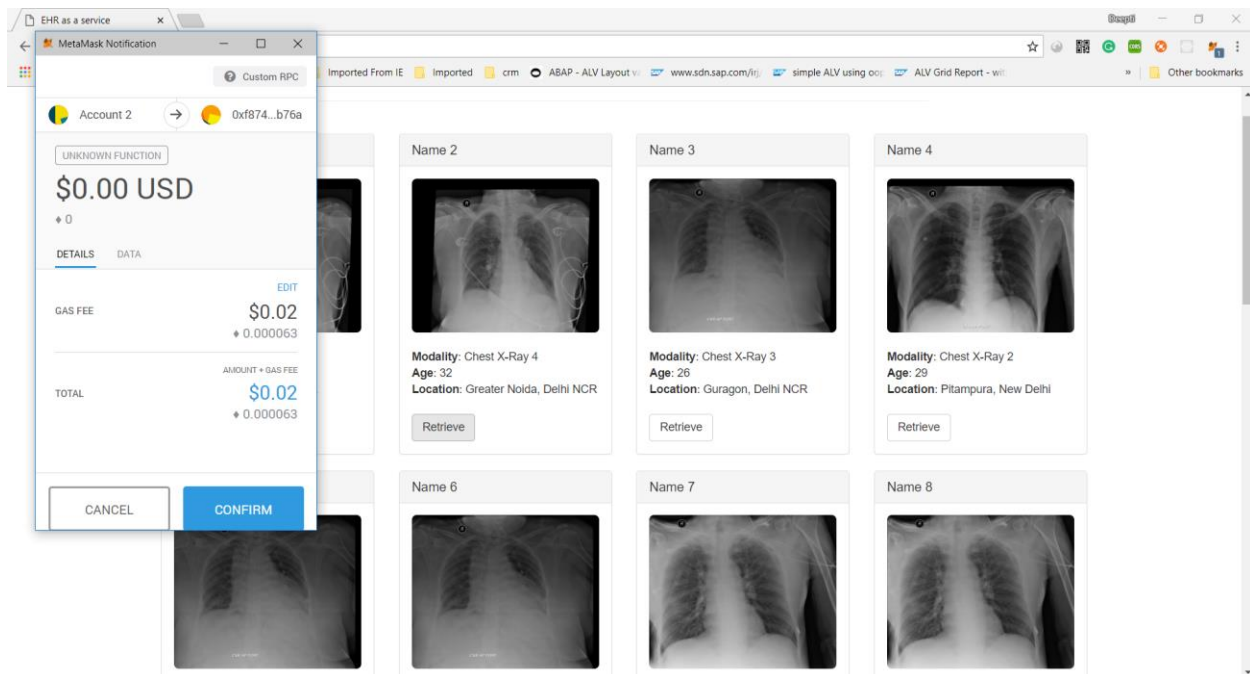
## 2. EHRs page for Query and Retrieve



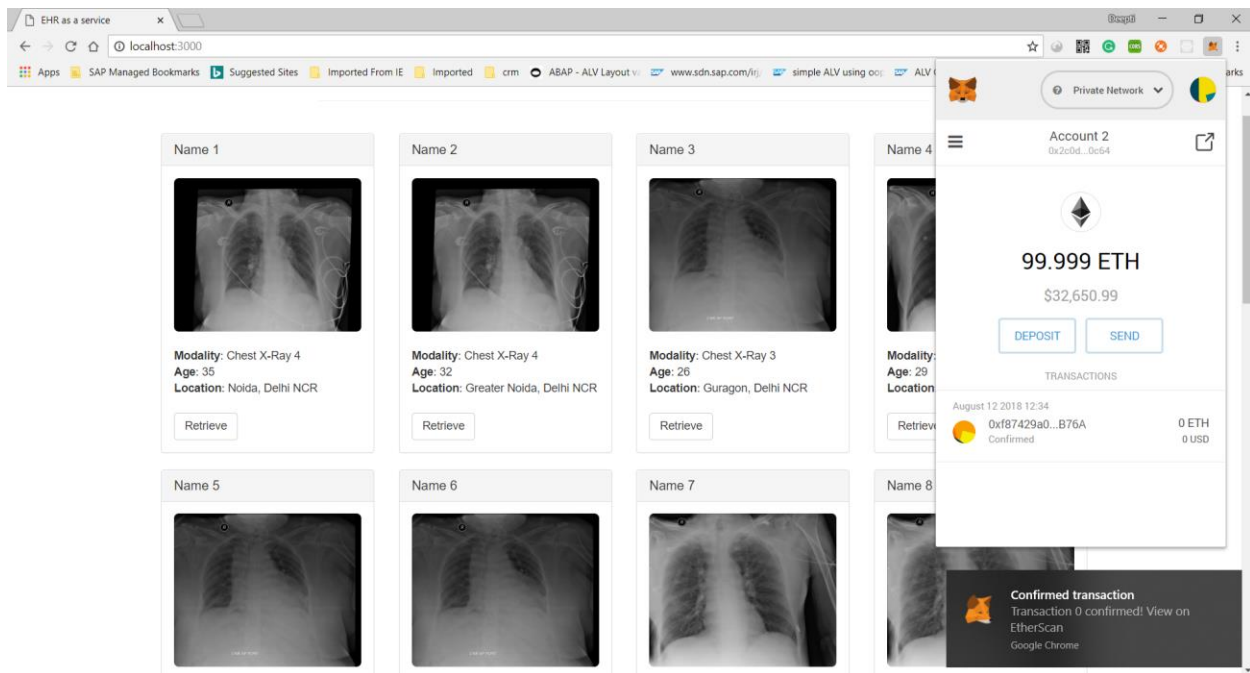
## 3. Ganache server for handling Ethereum network and ETH transactions



## 4. Click on "Retrieve" to retrieve the records



## 5. Confirm Metamask transaction



Transaction confirmed. ETH consumed. Number of blocks increased by 1

The screenshot shows the Ganache application interface. At the top, there are tabs for ACCOUNTS, BLOCKS, TRANSACTIONS, and LOGS. A search bar is located on the right. Below the tabs, a status bar displays various metrics: CURRENT BLOCK 11, GAS PRICE 2000000000, GAS LIMIT 6721975, NETWORK ID 5777, RPC SERVER HTTP://127.0.0.1:7545, and MINING STATUS AUTOMINING. The main area shows a transaction hash: TX 0x05e750a477dea4feb5297be2169ff06ddb6a9d06a5716cf4d2a0d7f3d5ffb831. Below this, the SENDER ADDRESS is 0x2C0cd878EF4C54F5a1d0704D868Aa530806c00C64 and the TO CONTRACT ADDRESS is 0xf87429a0e97A5e40cAb4D8e8e2689b312061B76A. The bottom section shows transaction details: VALUE 0.00 ETH, GAS USED 42138, GAS PRICE 1000000000, GAS LIMIT 63207, and MINED IN BLOCK 11. The TX DATA is also displayed at the bottom.