

Also following is snapshot of a transaction receipt we get on adding a Car

```
| Transaction state | Second |
```

Brief definition of terms given in the picture:

Status: Ethereum provides with a way to know if a transaction succeeded by checking its receipt status. A receipt status can have a value of 0 or 1 which translate into: 0 transaction has failed (for whatever reason) 1 transaction was successful.

Transaction hash: A transaction hash/id is a unique string of characters that is given to every transaction that is verified and added to the blockchain. In many cases, a transaction hash is needed in order to locate funds.

from: address of the sender.

to: address of the receiver. null when it's a contract creation transaction.

Gas: The amount of gas used by this specific transaction alone.

Transaction cost: the sum of the transaction cost plus the execution cost.

decoded input: this is the decoded input parameters

decoded output: decoded output parameters

logs: The logs are generated when there is an event in the smart contract. So if there is no event, then there are no logs generated.

value: the amount of wei sent with this transaction.

Presently We have integrated Our smart Contract to a web UI Using truffle-suite, metamask and web3.js through vs code.

Following are the Snapshots of our System

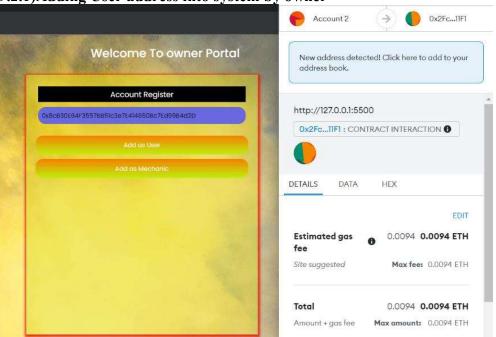
9.1)Home Page



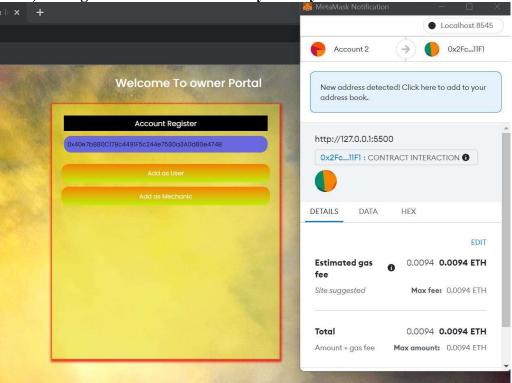
9.2) Register Section



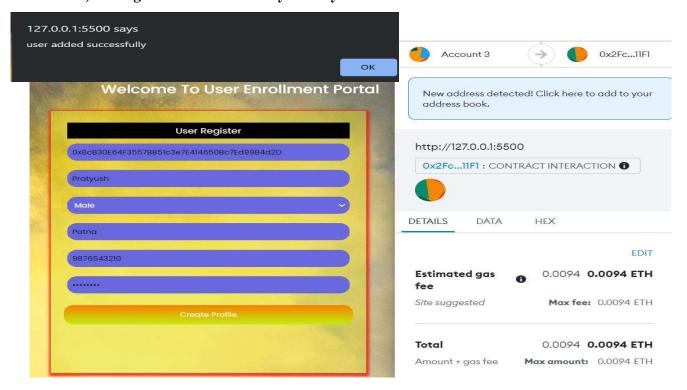
9.2.1) Adding User address into system by owner



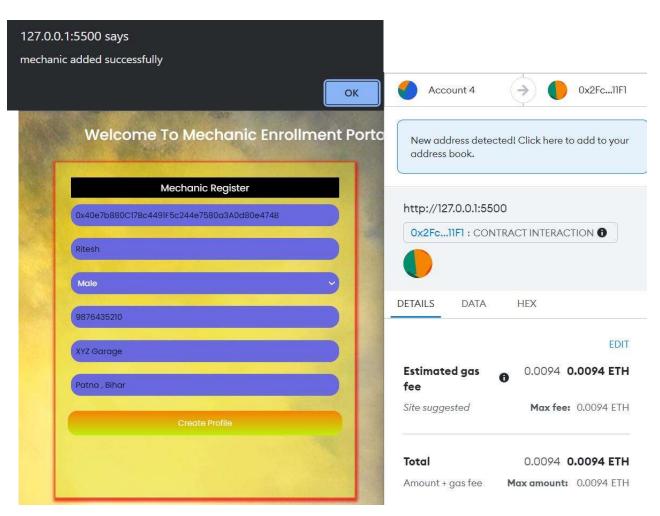
9.2.2) Adding Mechanic address into system by owner

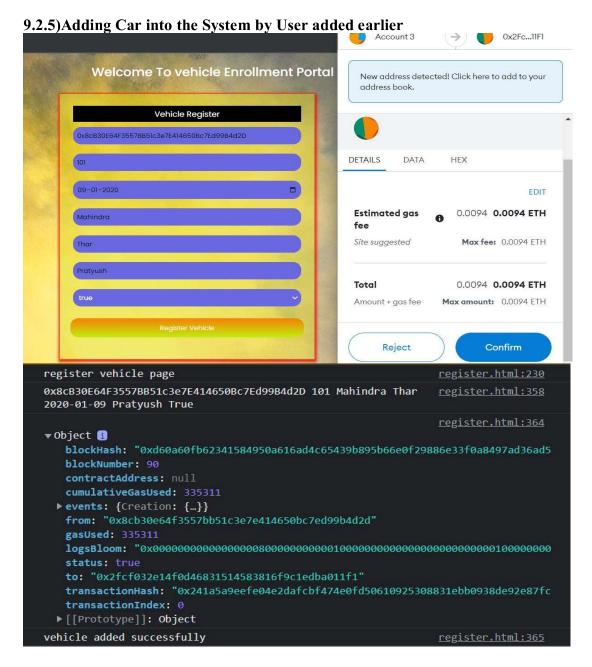


9.2.3) Adding user data into the System by user



9.2.4) Adding Mechanic data into the System by Mechanic





9.3) Search icons

9.3.1)Search User



Personal Detail Name Ritesh Raman Gender Male Address Siwan Phone 976855432

9.3.2)Search Mechanic



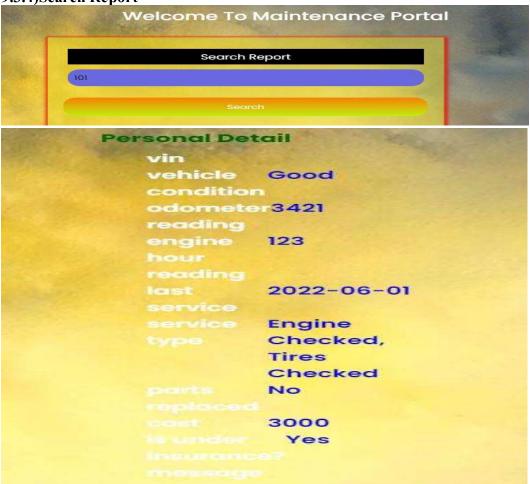
9.3.3)Search Car



9.3.3.1) Display All cars

VIN	Account	Brand	Model	Purchase Date	Owner name
103	0x4B487264F4DCbE768Ef180978123Ec15e4D69801	Kia	EV6	2019- 02-07	Shubhang Sharma
102	0xcA6E19cc57a1Ba357aB5BDaA7cB2f7a353245583	Mahindra	XUV700	2022- 06-01	Ritesh
101	0x8cB30E64F3557BB51c3e7E414650Bc7Ed99B4d2D	Mahindra	Thar	2020- 01-09	Pratyush

9.3.4)Search Report

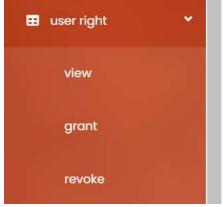


9.4.1)Transfer Ownership

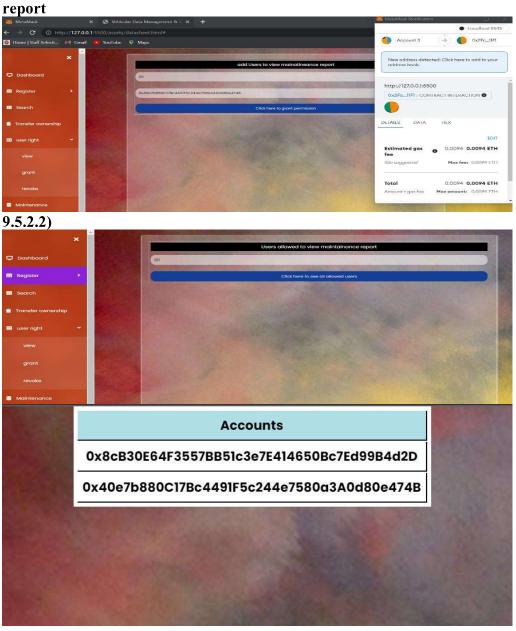


VIN	Account	Brand	Model	Purchase Date	Owner name
103	0x5032Da790398ACAd422dcb23CBcee59774d76780	Kia	EV6	2019- 02-07	Vivek Verma
102	0xcA6E19cc57a1Ba357aB5BDaA7cB2f7a353245583	Mahindra	XUV700	2022- 06-01	Ritesh
101	0x8cB30E64F3557BB51c3e7E414650Bc7Ed99B4d2D	Mahindra	Thar	2020- 01-09	Pratyush

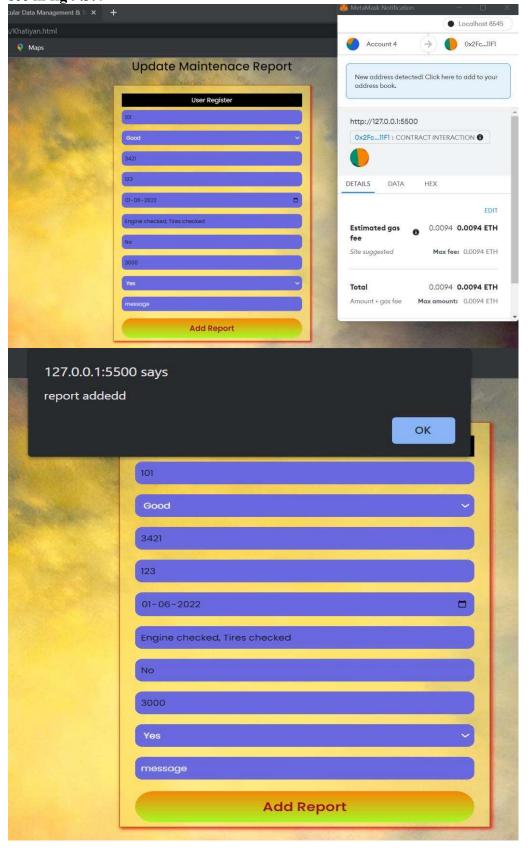
9.5.1)User Rights icon

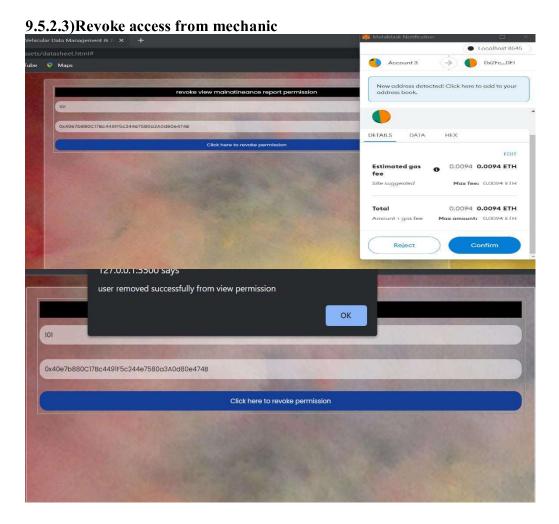


9.5.2.1)grant → after mechanic is granted the permission he is able to update



9.6.1)After mechanic is granted permission he can update report which we can see in fig 9.3.4





10.Future Plan

We have Currently Thought to use React Framework in our system in future for more better UI experience.

11.References

- 1) https://www.researchgate.net/publication/318131748 An Overview of Blockchain Technology Architecture Consensus and Future Trends
- 2) https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7308938/
- 3) https://arxiv.org/ftp/arxiv/papers/1708/1708.09721.pdf
- 4) https://www.epfl.ch/labs/dedis/wp-content/uploads/2020/01/report-2018 2-iva-najdenova-car.pdf
- 5) https://ethereum.org/en/developers/docs/
- 6) https://remix-ide.readthedocs.io/en/latest/
- 7) https://ethereum.org/en/developers/docs/web2-vs-web3/