

PUNE INSTITUTE OF COMPUTER TECHNOLOGY

WADL MINI PROJECT

TOPIC :-

“Payment app based on eth wallet”

Members :-

33142

33149

33148

33152

Abstract

With the rise in use of crypto wallets, there will be increase in number of users we would like to transfer funds using crypto wallets. However, the wallet addresses are too long to remember. So, there should be an infrastructure to identify wallets by other means to make recurring transactions easy. Hence, we have come up with a application that maps crypto wallets with a unique user id. Due to this we can search and conduct transactions without remembering or improperly storing the wallet addresses.

Introduction:

Motivation:

With rise in use of web3 technology, there is a demand of good infrastructure for smooth use of various applications.

Purpose:

To prevent users from remembering or having to store transaction details and to make recurring transactions easy.

Need of application:

Users have no easy way of store transaction details of other users.

Literature Survey:

There are many applications that can conduct two-way transactions by creating a payment channel between sender and receiver.

<https://medium.com/@squeezer/weve-launched-our-squeezer-2-way-payment-dapp-818ae6ae57e6>

Implementation details:

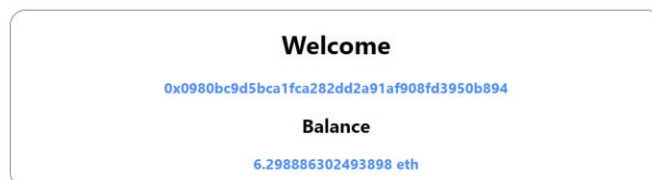
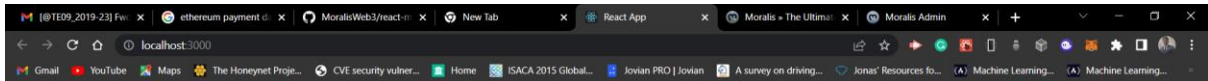
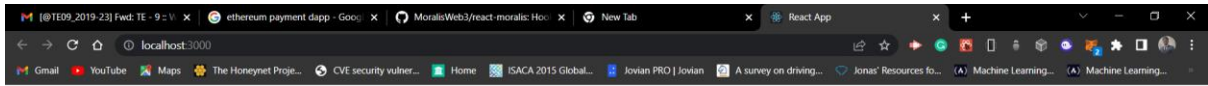
We have used react JS to create client-side application. Also, we have used Moralis Provider that gives access to many web3 libraries and APIs.

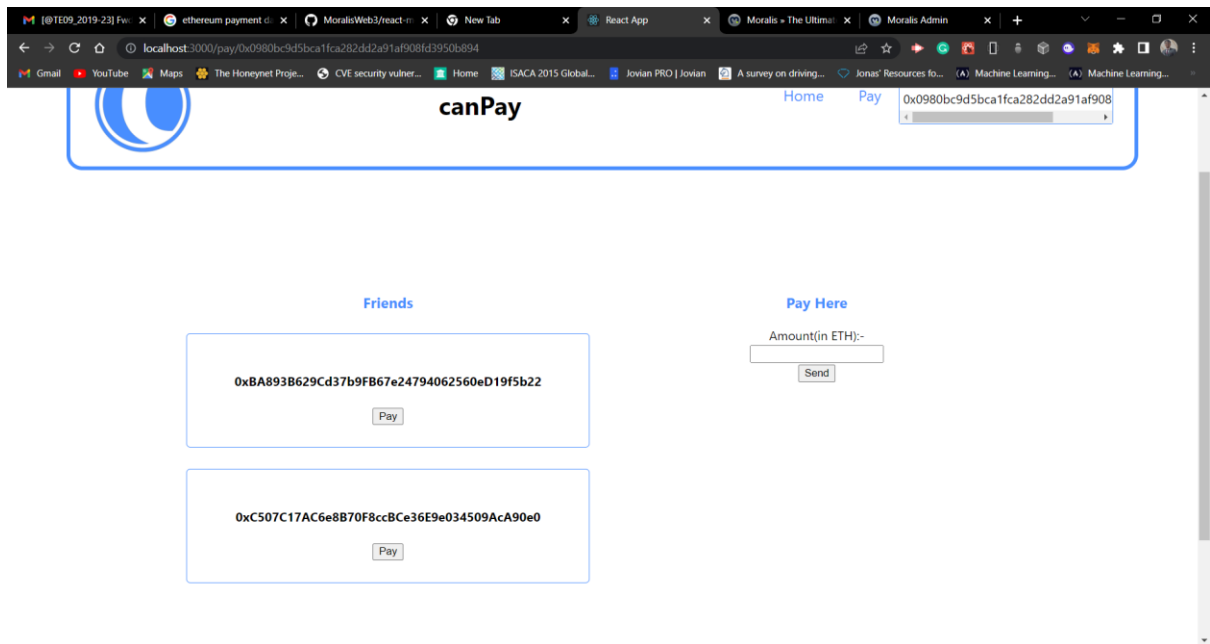
In index.js file of the project: -

```
<MoralisProvider
  appId="xxxxxxx"
  serverUrl="xxxxxxx"
>
  <App />
</MoralisProvider>
```

This wraps our app by moralis provider and we can use it.

Output Screenshots:





Conclusion and Future Work:

We have successfully created a platform for recurring transactions. However, there is will be rise in demand of creation and maintain new infrastructure that will help the transition from web2 to web3.