

Introduction(30)

Welcome everyone, We are presenting our project, Employee feedback decentralized application.

The scenario is an organisation feedback system where all traditional systems are prone to bias and manipulation.

Solution is to have a transparent immutable system through a decentralized application on blockchain architecture and the solution is as follows. we have a web interface designed on Django framework which will connect to ethereum network that runs the smart contract.

User Authentication(50)

Once the application is launched, the home page will be as shown here. Every user is to be authenticated by signing a token that proves his possession of private key and hence his identity.

As you can see in the metamask plugin, we have different accounts created for demo under two roles. Manager, and Employee. manager is the account which had already deployed the contract.

So presently he is the only person who is authorized to access the application.

So we ensure Owner account is selected in metamask and we click on login option in the home page. This will activate a popup to sign for user authentication through metamask. Once he is authenticated, we land in the dashboard of the application.

Add Employee(50)

Add employee feature is given to add users to the organisation. Technically, Manager of contract will be authorizing accounts for accessing our application. When you click Add employee button, popup asking for his account address will be shown like this. So lets add the second account in the Metamask as employee. Once he is added, list of employee feature will display his account address. For demo, lets add, two more employee accounts to our application.

For demo purpose, lets verify this transaction over Ropston network. Lets copy this transaction hash and go to ropston network. As you can see, the transaction for adding employee is now reflected in ropston network.

Survey/ Feedback(40)

Let us see the core feature of application. Consider this employee account in metamask, who is already added as a member in application. To initiate the feedback question, he will click on this link and will fill these required fields in the form. The form will ask for a topic to discuss and an

timer set for expiry of the same. Once he click submit, the transaction happens on in the background. Lets verify the same on ropston network. Option 'see the feeds' display the question posted before. All authorized employee will be able to view the question and add his own answers. He will be able to see answers posted by others where he has a choice to upvote or downvote it. Once he is done with casting his vote, he will get the results of votes, ie number of upvotes and number of downvotes for each answers. An employee can choose not to upvote or downvote an answer as well.

Voting(40)

Lets see how other employee can vote for this poll. Assuming the third account in metamask being another employee. When he logs in, he can go to 'See Feeds' link where the posted questions will be displayed. If he clicks this question, he will have an option to 'upvote' or 'downvote' the answers. Once the voting is done by the employee, status message will shown with the transaction hash. Let us verify this in ropston network. As you can see, the transaction is effected in the ropston network.

Voting results

Once an employee completes voting process for a question, he will be able to see the total number of votes for that particular question so far. After expiry of the timer set for question, employee will be able to see the poll results.