CIEG-JobDApp

Credit Incentive Employment Generation (CIEG) is a simple DApp built on Ethereum blockchain. DApp aims to implement a public employment record management system which connects students with employers. Various functionalities include posting a job requirement, applying for the same by a candidate or a student, adding a performance matrix, keeping track of the reward the job provider passed to the candidate and many more. The platform makes the necessary details available so that another potential job provider can have a history of the performance matrix of the candidate for the particular job that he/she enrolled for.

Getting Started

These instructions will get you a copy of the project up and running on your local machine for development and testing purposes. See deployment for notes on how to deploy the project on a live system.

Requirements

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- [NodeJS v12] (https://nodejs.org/en/)
```

- [Angular CLI v9] (https://angular.io/)
- [Truffle] (https://www.trufflesuite.com/)
- [Ganache CLI](https://www.npmjs.com/package/ganache-cli) / [Ganache

application] (https://www.trufflesuite.com/ganache)

- [Metamask] (https://metamask.io/)

Installation

 Check if you have NodeJS installed on your system by going to the terminal and then type the following into a terminal:

. . . .

node -v

. . .

NPM usually comes with NodeJS but to verify,

. . . .

npm -v

```
Check if you have Angular CLI installed by typing,
ng --version
- To clone the project to a local directory,
git clone
\cdot To install the necessary node module for the project to run,
npm install
### Truffle
To try out the DApp in local environment either open Ganache Application
or run the following command in a new terminal:
ganache-cli
>Leave this terminal running for completing the following steps to run the
application locally.
- After installation of node modules change current working directory to
truffle where the project is located,
cd truffle
- To compile the Truffle project,
truffle compile

    To migrate the Truffle project,

truffle migrate
. . . .
```

```
### GETH
Find the geth folder in docs.
### Ropsten
This project has been deployed to the Ropsten testnet. Find it using the
below link.
https://ropsten.etherscan.io/address/0xABc8962a4AF189BEFb1765B52BBa3E39Caf
785Fb
### Running DApp
· After successful migration change to the root of the directory where the
project is located and then type the following into a terminal:
ng serve --open
The browser will open to http://localhost:4200 by default where the DApp
will be running.
## Running the tests
To test the smart contract open the truffle directory in a new terminal
and type the following,
truffle develop
This will open a smart contract testing ground with 10 dummy Ethereum
accounts loaded with 100 ether each. It will now be a working development
terminal,
**truffle develop>**
where you just have to type the following,
```

```
test

## Deployment

The project has been deployed to the testnet and can be found using the following link to etherscan.io

## Built With

- Angular v9.1.1

- Angular Material v9.2.4

- Web3 v1.2.10

## Author

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