



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Internet and Web Programming

Oxygen Plant Funding Website Using Cryptocurrency

Final Report

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ABSTRACT

Our application is a crowdfunding website for setting up oxygen plants. We intend to use blockchain technology to create crypto tokens that investors can buy at any point from anywhere globally, and users would trade their Ethereum to invest in the seeker's project (seeker is a person/organization seeking investment). Anyone who has proper documents for building a plant can register to our site as an investment seeker, and the documents can be cross checked by the investor and then they can invest in their project and get back their funds after the seeker gets the profit and returns it through the website.

1.INTRODUCTION

1.1 SYSTEM OVERVIEW

We have built a web application where users can donate Ethereum to investment seekers through and the smart contract will automatically send the ether to the investment seekers after the target is reached.

For front end we used react to render it and the backend server is scripted in nodejs to handle the API and we use mongoDB to store all the user and project data

Smart contracts are stored in block chain and they are written using solidity language based on which transactions occur. A local test blockchain using Ganache is started, which provides 10 Ethereum wallets with 100 ethers each and the smart contract is deployed to that blockchain using truffle. Investors are allowed to buy ethers, withdraw the invested amount (if project is not sanctioned) and ether is returned to them at the end of the covid wave. We give them native

tokens instead of the Ethereum which they can withdraw as Ethereum after the project's seeker returns the money here 1 token = 0.001 ether

1.2 OBJECTIVE

Medical oxygen is the single most important intervention for moderate and severe cases of COVID-19. Hence our objective is to create a user-friendly crowdfunding website for oxygen plants so, we use a worldwide famous digital currency Ethereum so that anyone in the world who has ether can fund the oxygen plants (where 1 Ether is equivalent to Rs. **3,67,850**) and there are about 114.3 million Ether in circulation.

We know that the demand for oxygen has been increasing with the increase in the number of cases around the world and especially in India. Many people have died without the supply of oxygen at the right time. our project solves the major problem of COVID-19 ie, oxygen shortage for patients. Thus, our project has been implemented with a good motive to aid the COVID-19 affected patients through a modern way of Ethereum crowdfunding.

The crowdfunding works as follows: the seeker creates a project for funding before which they have to create and register as a seeker by filling in the necessary documents and information and after this, investors can also register and create accounts in a similar way and after this, they can join a project started by any seeker and donate the money to meet the goal of the project. The investors will get back the money after the seeker gets their profit.

1.3 APPLICATIONS

The major application of this project is to aid the COVID-19 affected patients by helping them out with the increasing demand of oxygen supply. We know that the demand for oxygen has been increasing with the increase in the number of cases around the world and especially in India. Many people have died without the supply of oxygen at the right time. Thus it is really important to solve this problem and Ethereum crowdfunding has been used in our case to solve this.

This can also be extended to support the COVID-19 affected patients by helping to know the closest oxygen plants so that they can get the oxygen at the right time. In a nutshell our project's indirect application is to help save lives during these difficult times.

1.4 LIMITATIONS

The limitations of this project are:

1. The investor can only donate through Ethereum and not by any other means.
2. The return of the Ethereum to the investor depends on the trustworthiness of the seeker even though verifications are done.
3. If the seeker doesn't reach the funding target, any finance that has been pledged will usually be returned to your investors and you will receive nothing

2.SYSTEM ANALYSIS

2.1 Existing System

What makes direct crowdfunding less advantageous for unknown fundraisers (e.g. entrepreneurs) is the fact, that they would directly have to be able to address a large number of people via their own website.

The costs should be in proportion to the invested capital so that the transaction costs are not even higher. The strong control by the system and the transfer to the associated crowdfunding platforms is considered to be particularly negative.

Another problem is that some crowdsourcers and crowdworkers circumvented the platform after the initial contract and reached an extraordinary agreement.

On the crowdworking platforms, there were also some trust conflicts between the platform operators and crowdworkers, who tried to trick the system with automated work.

2.2 Proposed System

According The proposed system is a blockchain based crowdfunding platform. Blockchain technology is a decentralized ledger, more efficient, safe and tamper-proof system of nodes in connection. Introduction of blockchain in crowdfunding will make it more reliable, transparent, trusted, decentralized, cost-efficient and convenient.

2.2.1 Benefits of proposed System

- According to our research, we found that the major problem regarding the oxygen demand was poor distribution and logistics in the transportation of oxygen.
- Since transactions are made with cryptocurrency(ether) anyone

across the globe can contribute to the projects.

- Transactions are carried out through blockchain so it is highly secure and transparent.
-

3. REQUIREMENT SPECIFICATION

3.1 HARDWARE REQUIREMENTS

1. Minimum:

- Processor: 1.9 gigahertz (GHz) x86- or x64-bit dual core processor with SSE2 instruction set
- Memory: 2 gb RAM
- Display: Super VGA resolution 1024 x 768

2. Recommended:

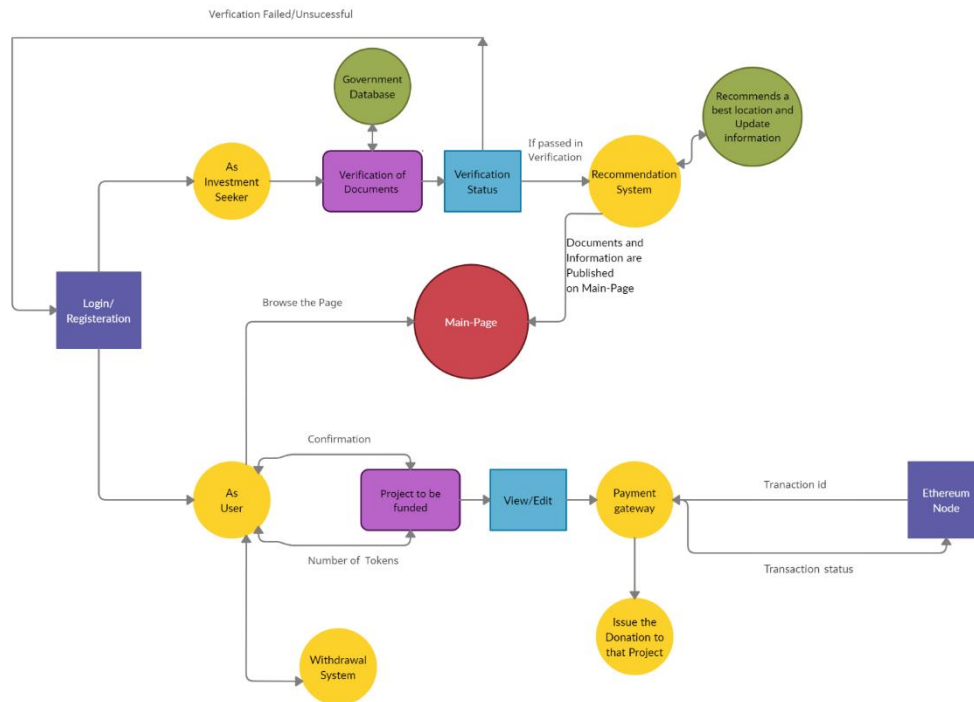
- Processor: 3.3 GHz or faster 64-bit dual core processor with SSE2 instruction set
- Memory: 4 gb RAM or more
- Display: Super VGA with resolution 1024 x 768

3.2 SOFTWARE REQUIREMENTS

1. VScode (code editor)
2. Ganache (Test virtual blockchain for ethereum)
3. Node.js
4. Express.js
5. Reactjs
6. MongoDB
7. MongoDB Compass
8. Truffle.js
9. Solidity (Ethereum Solidity Language for VScode)

4.SYSTEM DESIGNSPECIFICATION

4.1SYSTEM DESIGNSPECIFICATION



4.2. DETAILED DESIGN

Website:

We used react to render our frontend, server is scripted in nodejs to handle the API and we use mongoDB to store all the user and project data

Blockchain:

A smart contract is written in Solidity language based on which transactions occur. A local test blockchain using Ganache is started, which provides 10 Ethereum wallets with 100 ethers each and the smart contract is deployed to that blockchain using truffle. Investors are allowed to buy ethers, withdraw the invested amount(if project is not sanctioned) and ether is returned to them along with some interest amount at the end of the covid wave.

4.3. DATABASE DESIGN

Tables:

1. Investors

- Id
- projectIds
- userid

2. Projects

- Id
- Amount recieved
- Investor count
- Image
- Seeker
- Deposit
- Address
- Name
- Description
- Total required tokens
- Ethereum address

3. Seekers

- Project
- User
- Address

- IsVerified
- Stage
- Eth
- Verification doc 1
- Verification doc 2
- Verification doc 3
- Verification doc 4
- Verification doc 5

4. Users

- Id
- Name
- Email
- Password
- Session
- User type
- Ethereum address

5.SYSTEM IMPLEMENTATION

5.1 MODULE DESCRIPTION

1. Front-end: We use HTML, CSS and React-JS for the front end to implement the necessary functionalities to interact with the user like registration of seeker and investor, checking of documents, display of projects and interface to buy the tokens for donation.
2. Back-end: We use Node-JS and Express-JS to implement the backend to implement functionalities like storing the data of user details (both seeker and investor), details about the projects, the coins remaining and required for each project in the database
3. Blockchain module: We use solidity to implement the blockchain module of our project to serve functionalities such as facilitating the transactions between the users and the blockchain like ganache so that the transactions can be reflected in the blockchain and also the database of our project.
4. Investment module: This is basically the system on which the project functions, here the seeker requests and creates the project and the investor buys tokens to fulfil the needs of the seeker. This is the basic system on which our blockchain crowdfunding project works.

6.CONCLUSION AND FUTURE ENHANCEMENTS

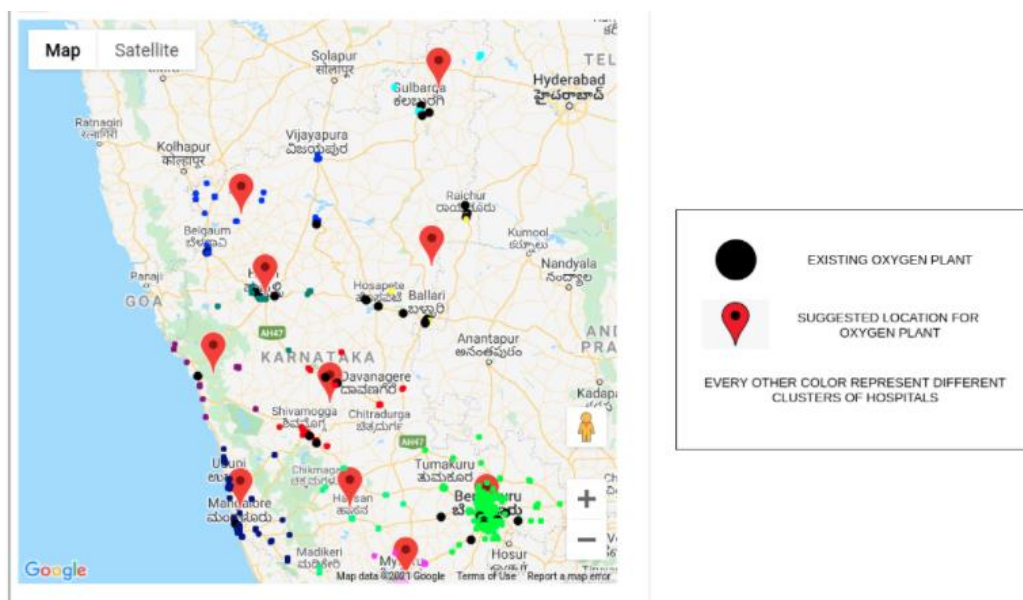
We can see that this website is an alternative to investment with traditional currencies like dollars and rupees which are bound by barriers like high fees, rules and regulations which change according to the country, burden of marketing and advertising where you have to pay to the website to get featured in the top most visible spot and also copyright risks where the seekers IPs are left unprotected and with the current trend where cryptocurrency is becoming increasingly used and is also increasing in its value and quantity like Ethereum where 104 million coins are in circulation and as this token was created by keeping smart contracts in mind it is a good field to start crowdfunding projects where smart contracts are mainly used as they provide accountability.

Future Enhancements:

There is a lot of scope in this project as this project was built with the intention of being a basic one and one where we can add new features to it in several areas like including information of hotspots of covid-19 and etc

Map module:

This could revolutionize this app as we can add a map containing locations of existing oxygen plant and hospitals nearby which we can use as the input to a machine learning algorithm which recommends the suggested location of oxygen plant where potential project seekers can assess and ask a project



7.APPENDICES

7.1 APPENDIX 1 - SAMPLE SOURCE CODE

Github link: <https://github.com/dhanushkumaar/crypto1.git>

transaction_seeker.js

```
import React, { useState,useEffect} from 'react'
import Web3 from 'web3'
import $ from 'jquery'
import {useSelector} from 'react-redux'
import TruffleContract from '@truffle/contract'

import Snackbar from '@material-ui/core/Snackbar';
import MuiAlert from '@material-ui/lab/Alert';
import { makeStyles } from '@material-ui/core/styles';

// import { Button, Header, Image, Modal } from 'semantic-ui-react'
import Button from '@material-ui/core/Button';
import Dialog from '@material-ui/core/Dialog';
import DialogActions from '@material-ui/core/DialogActions';
import DialogContent from '@material-ui/core/DialogContent';
import DialogContentText from '@material-ui/core/DialogContentText';
import DialogTitle from '@material-ui/core/DialogTitle';

function Alert(props) {
  return <MuiAlert elevation={6} variant="filled" {...props} />;
}

const useStyles = makeStyles((theme) => ({
  root: {
    width: '100%',
    '& * + *': {
      marginTop: theme.spacing(2),
    },
  },
}));
```

```

function SeekerPage(props) {
  const userState = useSelector(state => state.user);
  console.log(props.user)
  const seekerAcc = props.project.project.eth; //Change default value
  const projectNo = 0; //Change the Project number as variable!!!!!!!!!!!!!!
  // const totalRequiredTokens = 10000; //Change this also
  let tokenPrice = 10000000000000000;
  const [open, setOpen] = useState(false)
  const [openMsg, setOpenMsg] = useState(false)
  const [type, setType] = useState('');
  const [message, setMessage] = useState('');

  const handleClose = (event, reason) => {
    if (reason === 'clickaway') {
      return;
    }
    setOpenMsg(false);
  };

  const sanctionedDate = props.project.project.sanctionedDate; //Change this

  const web3 = new Web3("http://localhost:7545")
  const loadbc = async (event) => {
    window.accounts = await web3.eth.getAccounts();
    connectToContract();
    console.log(window.accounts[0])
  }
  const connectToContract = async () => {
    $.getJSON('/Token.json', (token) => {
      window.tokenInst = TruffleContract(token)
      console.log("Amaan ba")
      console.log(window.tokenInst)
      window.tokenInst.setProvider("http://localhost:7545")
      window.tokenInst.deployed().then(async (token) => {
        window.TokenInstance = token
        console.log('Token address is: ' + token.address)
        console.log("Seeker account: " + seekerAcc)

        window.totalRequiredTokens = await window.TokenInstance.totalrequired(seekerAcc, projectNo)
        console.log("Initial call: " + window.totalRequiredTokens)
      })
    })
  }

  //Sets the required amount of tokens for project
  const setRequired = async () => {

```

```

window.tokenInst.deployed().then(async(token)=>{
    const required_tokens = $('#setRequired').val()
    await token.setRequired(seekerAcc,projectNo,required_tokens,{
        from: seekerAcc

    })
    const numbertest = await token.required(seekerAcc,projectNo);

    console.log("set number is: "+numbertest)

})
}

const returnMoney = async()=>{
    console.log("Token isnsyasgyas")
    console.log(window.tokenInst)
    window.tokenInst.deployed().then(async(token)=>{
        window.TokenInstance = token;

        //Logic to calculate token price at the end of return
        let dateNow = Date.now()
        console.log(typeof sanctionedDate)
        let timeElapsed = dateNow-sanctionedDate;//Change
        let diffDays = Math.ceil(timeElapsed / (1000 * 60 * 60 * 24));

        tokenPrice = tokenPrice + (diffDays*6881310000000); //1 rupee

equivalent
        console.log("tpp ttejoig")
        console.log(typeof diffDays)

        let amount_to_return = Number(window.totalRequiredTokens)
* tokenPrice
        console.log("amoutn ttejoig")
        console.log("Tokes is: "+window.totalRequiredTokens)
        token.payToSmartContract.sendTransaction({
            from: seekerAcc,
            to: token.address,
            value: amount_to_return
        }).then(async()=>{
            console.log("")
            let length;
            let investorsAcc = [];

            length = await window.TokenInstance.returnRegisterLength.call(seekerAcc,project
No);

            for(let i=0;i<length;i++){

```



```

    let investorFromRegister = await window.TokenInstance.investorsRegister(seekerAcc,projectNo,i);
    investorsAcc.push(investorFromRegister);
  }

  //Filters and gives unique addresses
  let uniqueInvestors = [...new Set(investorsAcc)];
  console.log(uniqueInvestors)
  for(let j=0;j<uniqueInvestors.length;j++){

    let valueContributed = await window.TokenInstance.purchased(seekerAcc,projectNo,uniqueInvestors[j])

    await window.TokenInstance.payToSeeker(uniqueInvestors[j],Number(valueContributed),{
      from: uniqueInvestors[j]
    })

    await window.TokenInstance.makeZero.call(uniqueInvestors[j],seekerAcc,projectNo)
  }
})

setType('success')
setMessage('Money returned back to the investors');
setOpenMsg(true);
}

useEffect(loadbc,[])
return(
  <div style={{float: 'right',marginTop:'10px'}}>

    <Button variant="contained" color="primary" onClick={() => setOpen(true)}>
      Seeker
    </Button>
    <Dialog
      open={open}
      onClose={() => setOpen(false)}
      onOpen={() => setOpen(true)}

      >
      <DialogTitle>Seeker</DialogTitle>

      <DialogContent dividers={'paper'}>
        <p>
        <div>

```

```

<img style={{height:"260px",width:"260px",float:"left",marginLeft:"140px"}} src
={"https://www.reuters.com/resizer/aNcj2Z2FOLja0B1N8TCOLeF18Hs=/960x0/cloudfront-
us-east-2.images.arcpublishing.com/reuters/QFS5CLPP3BNR3HJ2YF3DZRLVRA.jpg"}/>

```

```

<p style={{fontSize: '20px',float:"right"}}>Hi {props.user.user.name}, this is
your portal to return money back to your investors after the covid wave is over.
To return it back to investors along with a certain interest,
click <b>Return</b></p>

```

```

<Button style={{fontSize: '14px',marginLeft: '230px',backgroundColor:'green',fl
oat:"left"}} variant="contained" color="secondary" id="returnMoney" onClick={retu
rnMoney}>Return</Button>

```

```

</div>
</p>
</DialogContent>
<DialogActions>
<Button negative onClick={() => setOpen(false)}>
Cancel
</Button>
</DialogActions>
</Dialog>

```

```

<Snackbar open={openMsg} autoHideDuration={4000} onClose={handleClose}>
  <Alert onClose={handleClose} severity={type}>
    {message}
  </Alert>
</Snackbar>
</div>

```

```

)
}

```

```

export default SeekerPage

```

transaction_provider.js

```

import React, { useState,useEffect} from 'react'
import ApiService from '../..//api.service'
import Web3 from 'web3'
import $ from 'jquery'
import {useSelector} from 'react-redux'
import styles from './transaction.module.css'
import Button from '@material-ui/core/Button';
import Dialog from '@material-ui/core/Dialog';
import DialogActions from '@material-ui/core/DialogActions';
import DialogContent from '@material-ui/core/DialogContent';
import DialogContentText from '@material-ui/core/DialogContentText';
import DialogTitle from '@material-ui/core/DialogTitle';
import axios from 'axios'
import config from '../..//config'

import Snackbar from '@material-ui/core/Snackbar';
import MuiAlert from '@material-ui/lab/Alert';
import { makeStyles } from '@material-ui/core/styles';

import TruffleContract from '@truffle/contract';

function Alert(props) {
  return <MuiAlert elevation={6} variant="filled" {...props} />;
}

const useStyles = makeStyles((theme) => ({
  root: {
    width: '100%',
    '> * + *': {
      marginTop: theme.spacing(2),
    },
  },
}));
// import { Button, Header, Image, Modal } from 'semantic-ui-react'

// import { Dialog } from '@material-ui/core'

```

```

function Investor(props) {

    const classes = useStyles();

    const handleClick = () => {
        setOpen(true);
    };

    const userState = useSelector(state => state.user);
    const [providerAcc, setProviderAcc] = useState('');
    const [isBuyAllowed, setBuy] = useState(true);
    const [isWithdrawAllowed, setWithdraw] = useState(true);
    const [tokensPurchased, setTP] = useState('');
    const [tokensRequired, setTRfunc] = useState('')
    const [open, setOpen] = useState(false)
    const [openMsg, setOpenMsg] = useState(false)
    const [type, setType] = useState('');
    const [message, setMessage] = useState('');

    const web3 = new Web3("http://localhost:7545")
    const seekerAcc = props.project.project.eth;
    console.log("Seeker acc:"+seekerAcc)
    const investorAcc = props.user.user.eth;
    const projectNo = 0;

    const tokenPrice= 10000000000000000;

    const handleClose = (event, reason) => {
        if (reason === 'clickaway') {
            return;
        }
        setOpenMsg(false);
    };

    const setBuyFunc = async()=>{

    const requiredTokens = await window.TokenInstance.required(seekerAcc,projectNo)

        if(requiredTokens==0){
            setBuy(false);
        } else {
            setBuy(true);
        }
    }
}

```

```

    }
    setTRfunc(Number(requiredTokens));
    setWithdrawFunc();
  }

  const setWithdrawFunc = async()=>{

    const purchased = await window.TokenInstance.purchased(seekerAcc,projectNo,investorAcc);
    if(purchased==0){
      setWithdraw(false);
    } else {

    const requiredTokens = await window.TokenInstance.required(seekerAcc,projectNo)

      if(requiredTokens==0){
        setWithdraw(false);
      } else {
        setWithdraw(true);
      }
    }
    setTP(Number(purchased))
  }

  const loadbc = async (event)=>{
    window.accounts = await web3.eth.getAccounts();
    await connectToContract();

    console.log(window.accounts[0])
  }

  const connectToContract = async()=>{
    $.getJSON('/Token.json',(token1)=>{
      window.tokenInst =TruffleContract(token1);
      console.log("inga paaru")
      console.log(window.tokenInst)
      window.tokenInst.setProvider("http://localhost:7545")
      window.tokenInst.deployed().then(async(token)=>{
        window.TokenInstance = token

        window.totalRequiredTokens = await window.TokenInstance.totalrequired(seekerAcc,projectNo)
        setBuyFunc();
      })
    })

  }
  useEffect(loadbc, [])

  const buy = async ()=>{

```

```

let noOfTokens = $("#amount").val();
let inWei = String($("#amount").val() * tokenPrice);

window.required_tokens = await window.TokenInstance.required(seekerAcc,projectNo);
window.required_tokens = parseInt(window.required_tokens.toString())
//Change this for sureeeeeee
if(noOfTokens<=window.required_tokens){

    await window.TokenInstance.payToSmartContract.sendTransaction({
        from: investorAcc,
        to: window.TokenInstance.address,
        value: inWei
    })

    await window.TokenInstance.changeVariables(investorAcc,seekerAcc,projectNo,noOfTokens,{
        from: investorAcc
    });
    // const addTransaction =
await ApiService.addTransaction(seekerAcc,props.user.user.id)
    setMessage(`${noOfTokens} tokens bought successfully!`);
    setType("success")
    setOpenMsg(true);
    console.log(window.required_tokens)
    if(noOfTokens==(window.required_tokens)){
        console.log("damnnnnn it works")

        await window.TokenInstance.payToSeeker(seekerAcc,(window.totalRequiredTokens),{
            from: seekerAcc
        })
        axios({
            method: 'POST',
            url: config.BASE_URL+'project/sanction',
            headers: {"Content-Type" : "application/json"},
            data: {
                project: props.project.project._id
            }
        })
        .then((res)=>{
            setMessage("Transferred ether to seeker account from smart
contract");

            setType("success")
            setOpenMsg(true);
            // console.log("Transferred ether to seeker account from smart
contract")

            window.required_tokens-=noOfTokens;
        })
        .catch((e)=>{
            console.log(e)
        })
    }
}

```

```

    }

    } else{
        setMessage("Enter lesser value");
        setType("error")
        setOpenMsg(true);
    }

    let pur1 = await window.TokenInstance.purchased(seekerAcc,projectNo,investorAcc
);
    setTP(Number(pur1))

    let mr1 = await window.TokenInstance.required(seekerAcc,projectNo)
    setTRfunc(Number(mr1))
}

const withdraw = async()=>{

const moreRequired = await window.TokenInstance.required(seekerAcc,projectNo)
console.log(Number(moreRequired))
if(moreRequired==0){
    setMessage("Sorry cannot withdraw, the project has been
sanctioned");
    setType("error")
    setOpenMsg(true);
    // console.log("Sorry cannot withdraw, the project has been
sanctioned")
} else{

    let purchased = await window.TokenInstance.purchased(seekerAcc,projectNo,invest
orAcc);
    console.log(Number(purchased))
    if(purchased!=0){
        purchased=purchased

        await window.TokenInstance.payToSeeker(investorAcc,Number(purchased),{
            from:investorAcc
        })

        await window.TokenInstance.withdraw(investorAcc,seekerAcc,projectNo,{
            from:investorAcc
        });
    }
    else{
        setMessage("Sorry you cannot withdraw ether as investment=0");
        setType("error")
        setOpenMsg(true);
    }
}
}

```

```

let pur = await window.TokenInstance.purchased(seekerAcc,projectNo,investorAcc)
;
    setTP(Number(pur))

let mr = await window.TokenInstance.required(seekerAcc,projectNo)
setTRfunc(Number(mr))
}

return(
    <div style={{float: 'right',marginTop:'10px'}}>
        {/*
<Snackbar open={open} autoHideDuration={6000} onClose={handleClose}>
    <Alert onClose={handleClose} severity="success">
        This is a success message!
    </Alert>
</Snackbar> */}

    <Button variant="contained" color="primary" onClick={() => setOpen(true)}>Inves
tor</Button>
        <Dialog
            open={open}
            onClose={() => setOpen(false)}
            onOpen={() => setOpen(true)}
        >
            <DialogTitle>Investor</DialogTitle>

            <DialogContent dividers={'paper'}>
                <p>
                    <div>

                        <img style={{height:"260px",width:"260px",marginLeft:"140px"}} src={"https://www
                        .reuters.com/resizer/aNcj2Z2FOLjaOB1N8TCOLeF18Hs=/960x0/cloudfront-us-east-
                        2.images.arcpublishing.com/reuters/QFS5CLPP3BNR3HJ2YF3DZRLVRA.jpg"}/>

                        <ul>
                            <li style={{fontSize: '20px'}}>Tokens owned by
you: {tokensPurchased}</li>
                        </ul>
                        <ul>
                            <li style={{fontSize: '20px'}}>Remaining tokens
required: {tokensRequired}</li>
                        </ul>

```



```

        <div style={{display:isBuyAllowed?'block':'none'}}>
        <p style={{fontSize: '18px'}}>Please enter the amount of tokens you
wish to purchase</p>
        <span style={{fontSize: '20px'}}>Amount:
    </span><input style={{marginTop: '10px',fontSize:'20px'}} className={styles.fie
ldIn} id="amount"></input>
        <div style={{float:'right', marginRight: '300px'}}>

        <Button variant="contained" onClick={buy} style={{backgroundColor:'green',color
:'whitesmoke'}}>Buy</Button>
        </div>
        </div>

        <p style={{fontSize: '18px',marginTop:'20px'}}>Would you like to
withdraw the investment you have made? If yes click withdraw</p>
        <div>

        <Button variant="contained" style={{marginLeft:'210px',backgroundColor: "orang
e",color:'whitesmoke'}} onClick={withdraw}>Withdraw</Button>
        </div>

        </div>

    </p>
    </DialogContent>

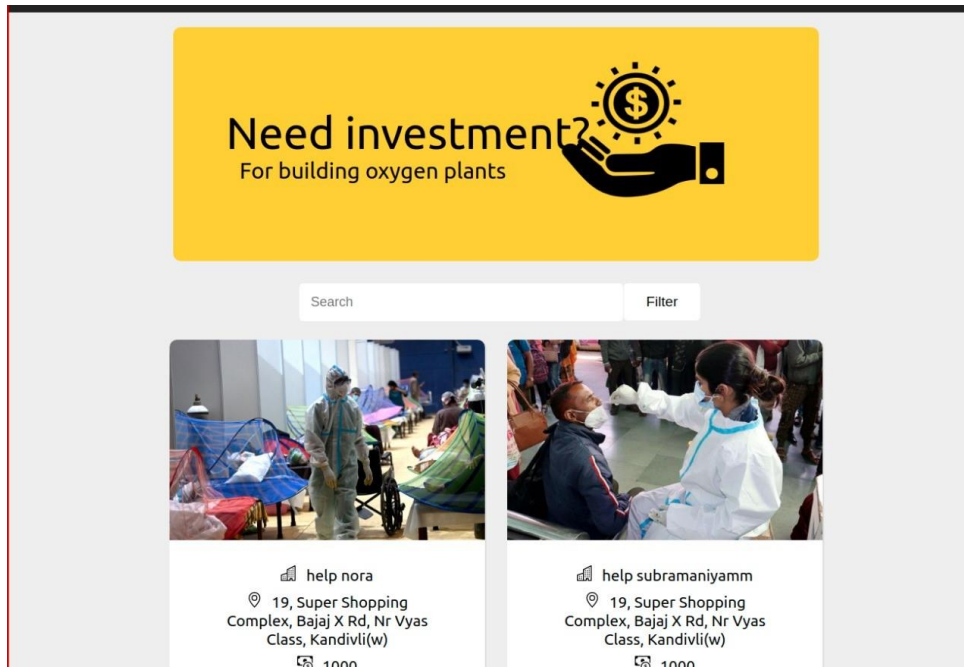
    <DialogActions>
    <Button negative onClick={() => setOpen(false)}>
Cancel
    </Button>
    </DialogActions>
    </Dialog>
    <Snackbar open={openMsg} autoHideDuration={4000} onClose={handleClose}>
        <Alert onClose={handleClose} severity={type}>
            {message}
        </Alert>
    </Snackbar>
    </div>
    )
}

export default Investor

```

7.2 APPENDIX 2 - SCREEN SHOTS /OUTPUTs

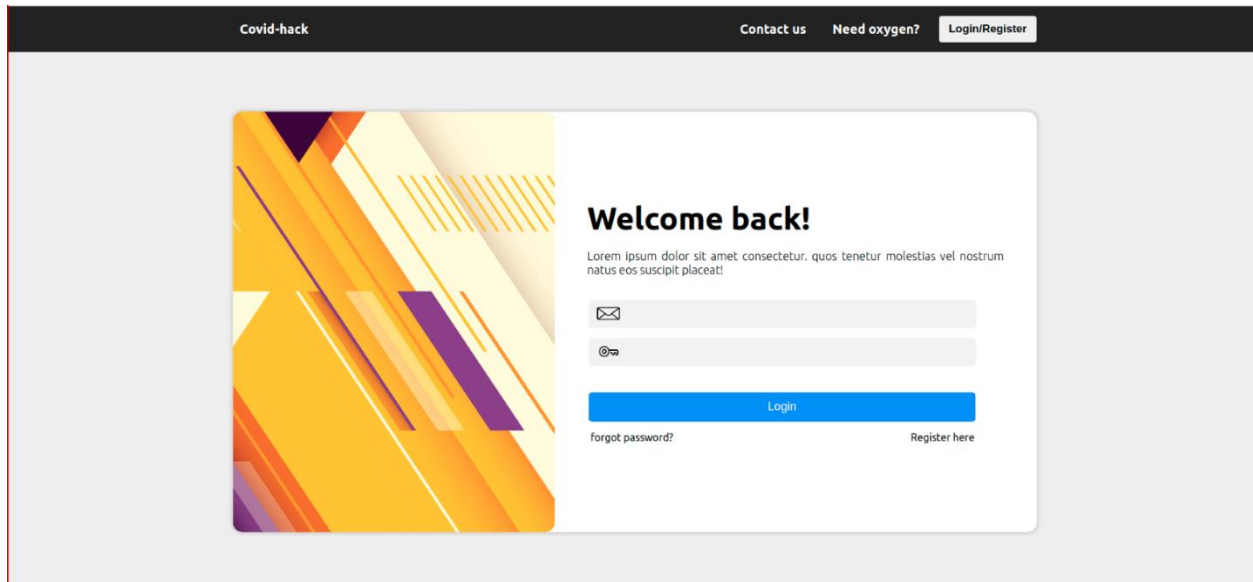
Home page



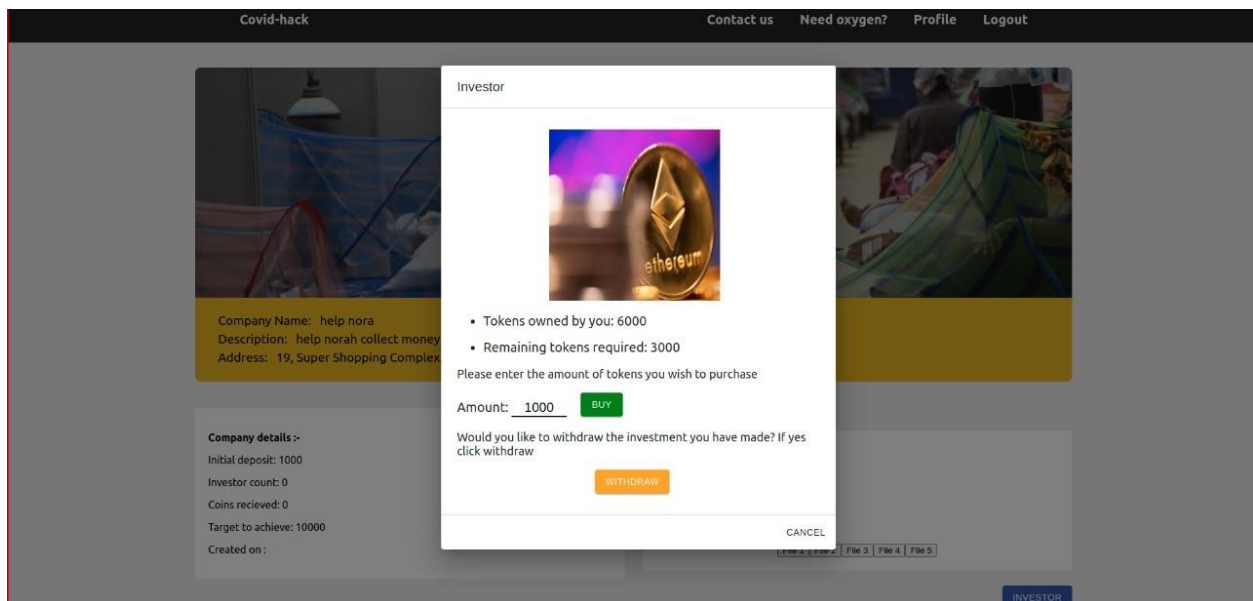
Registration page

The screenshot shows the registration page of a platform. The page has a dark header with links for "Covid-hack", "Contact us", "Need oxygen?", and "Login/Register". The main content area is titled "Register" and contains a form with the following fields: Email (girish@gmail.com), Password (masked with dots), Confirm Password (masked with dots), Name (dhanush), ETH address (0x7499685B95bdf7B88a8B647dFc9ea6F441428368), User type (a dropdown menu with "Seeker" selected and "Investor" as an option), and Address (a text input field). A "Submit" button is located at the bottom of the form. The left side of the page features a decorative graphic with yellow and orange diagonal stripes.

Login page



Project page



Profile page to add government verified documents for proof

Licensing/ Registration

All the major necessary licenses and permits are to be applied. A list of the same is provided below.

Description	Status
Village NOC	From Gaon Panchayat
Trade License	From Local Authority
Consent to Establish (Pollution NOC)	State Pollution Control Board
Factory License	Approach to Chief Inspection of Factories, State Govt
Power Load	Approach to Power Distribution Company

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Licensing/ Registration

All the major necessary licenses and permits are to be applied. A list of the same is provided below.

Description	Status
Village NOC	From Gaon Panchayat
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[Stage 1](#) [Stage 2](#) [Stage 3](#) [Stage 4](#) [Stage 5](#)

Select file for stage 1

[Choose File](#) No file chosen [submit](#)

Ganache where 10 ethereum addresses are created in the test blockchain which it sets up

The screenshot displays the Ganache application window. The top navigation bar includes icons for ACCOUNTS, BLOCKS, TRANSACTIONS, CONTRACTS, EVENTS, and LOGS, along with a search bar. Below this is a status bar with various metrics: CURRENT BLOCK (0), GAS PRICE (20000000000), GAS LIMIT (6721975), HARDFORK (MUIRGLACIER), NETWORK ID (5777), RPC SERVER (HTTP://127.0.0.1:7545), MINING STATUS (AUTOMINING), and buttons for WORKSPACE QUICKSTART, SAVE, SWITCH, and settings. The main content area shows the MNEMONIC (emotion bracket chief disagree taste scrap follow ankle endorse fashion cloud common) and the HD PATH (m/44'/60'/0'/0/account_index). Below this is a table listing the first six accounts.

ADDRESS	BALANCE	TX COUNT	INDEX	
0x27f1867920B66319fFEe7fFFe166963dF6407E0D	100.00 ETH	0	0	
0xE4201AC7d9c26b43cd10437181A21C2c71EcE2D1	100.00 ETH	0	1	
0x61a0664E67E14a14D0Fd334F3227C27F82afbD4D	100.00 ETH	0	2	
0xbB274e08a7A6E370941ec901C737750A527cB0B1	100.00 ETH	0	3	
0x9cB26FaEF74A6109eEEB4b77ED8AdB8078E521d9	100.00 ETH	0	4	
0x901fA84920fE0CE5AFD177b53Cd7567b8B7C8D52	100.00 ETH	0	5	
0x1C713A4Fb7Ee4D9f46873865D2Be9f59464Ea5FB	100.00 ETH	0	6	

8. REFERENCES

8.1. LIST OF WEBSITES

1. https://www.academia.edu/50977209/Blockchain_based_crowdfunding_systems
2. https://www.researchgate.net/publication/275657510_Crowdfunding_The_Current_State_Of_Research
3. https://www.researchgate.net/publication/318307115_APPLICATION_OF_BLOCKCHAIN_TECHNOLOGY_IN_CROWDFUNDING
4. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3133176
5. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2725373
6. https://www.academia.edu/43600883/Smart_Contract_and_Blockchain_for_Crowdfunding_Platform