IMPLEMENTATION OF WEB APPLICATION

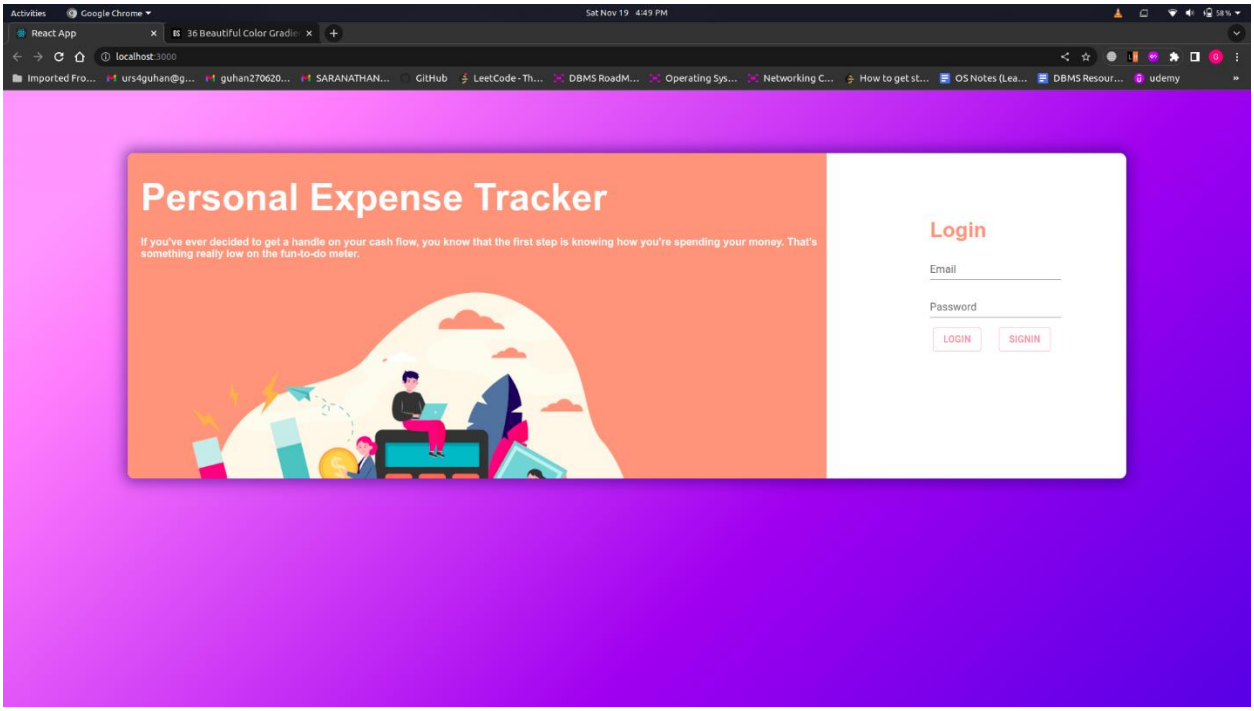
Date	**29/10/2022**
Team ID	**PNT2022TMID32597**
Project Name	**Personal Expense Tracker**

LOGIN :

```
import React from "react";
import Swal from 'sweetalert2';
import './style.css'
import CustomButton from "../../components/Button/button";
import Text from "../../components/Text/text";
import Input from "../../components/Input/input";
import { createSearchParams } from "react-router-dom";
export default class Login extends React.Component{
    render(){
        const notification = {
            toast:true,
            position: 'top-end',
            showConfirmButton: false,
            icon: 'error',
            timer:4000,
            timerProgressBar:true,

          }
        const navigation = this.props.navigation
        const login = async() =>{
            const email = document.getElementById('emailInput_login').value;
            const password =
document.getElementById('passwordInput_login').value;
            let url= new URL("http://localhost:5000/login")
            url.searchParams.set('email',email)
            url.searchParams.set('password',password)
            fetch(url).then((res)=>{
                res.json().then((data)=>{
                    if(data.value===0){
                        notification.title="Not a user"
                        notification.text="Email id is not registered"
                        Swal.fire(notification)
                    }else if(data.value ===1){
```

```
                        navigation({pathname
:'/expensetracker/dashboard',search:createSearchParams({email:email}).toString()}
)
                    }else if(data.value===2){
                        notification.title="Invalid Password"
                        notification.text="Please provide correct password"
                        Swal.fire(notification)
                    }else{
                        notification.title="Connection Error"
                        notification.text="Please try again later"
                        Swal.fire(notification)
                    }
                })
            })
        }

        const signin = ()=>{
            navigation("/register")
        }

        return(
            <div>
                <div>
                    <Text value="Login"/>
                </div>
                <Input id='emailInput_login' value="Email"/>
                <Input id='passwordInput_login' value="Password"/>
                <div className="buttonrow">
                <CustomButton function={login} value="Login"/>
                <CustomButton function={signin} value="Signin"/>
                </div>
            </div>
        )
    }
}
```

LOGIN SCREENSHOT :



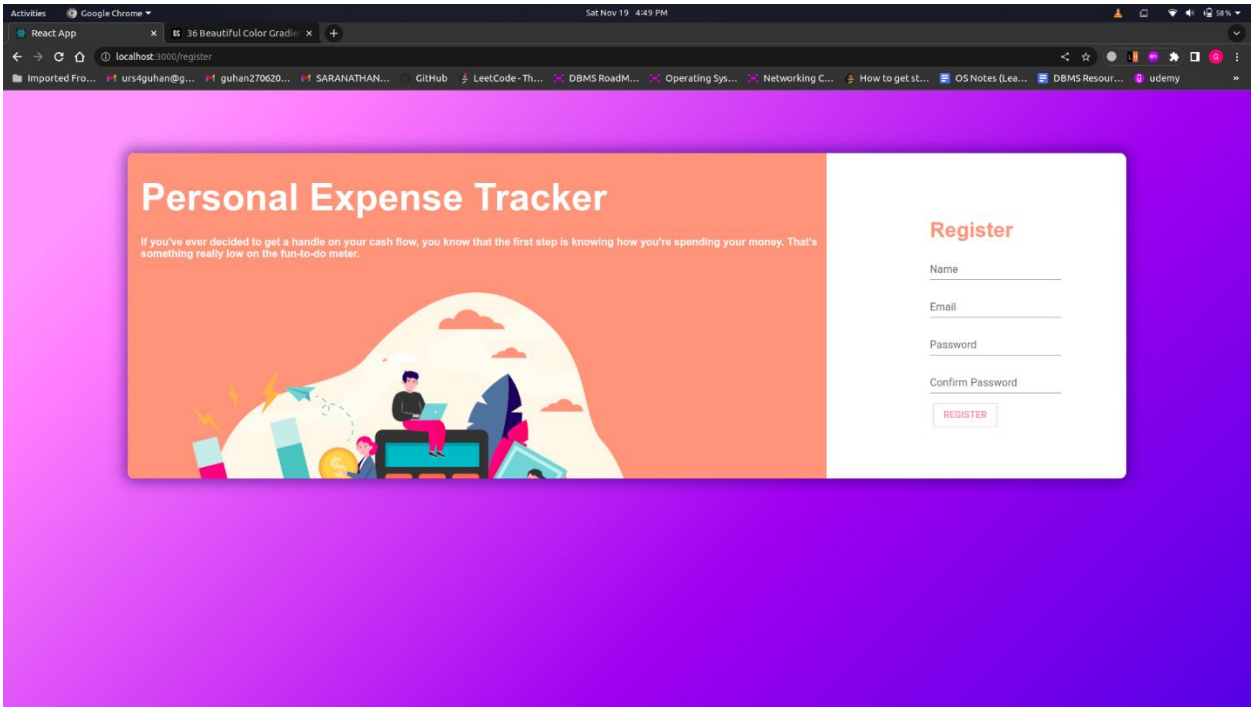
REGISTER :

```
import React from "react";
import validator from "validator";
import Swal from 'sweetalert2';

import Text from "../../components/Text/text";
import CustomButton from "../../components/Button/button";
import Input from "../../components/Input/input";

export default class Register extends React.Component{
    render(){
        const navigation = this.props.navigation
        const register = async()=>{
            let notification = {
                toast:true,
                position: 'top-end',
                showConfirmButton: false,
                icon: 'error',
                timer:4000,
                timerProgressBar:true,
```

```
            }
            let fullname=document.getElementById("nameInput_register").value
            let validName = fullname.replace(/\s/g, '');
            let email=document.getElementById('emailInput_register').value
            let password=document.getElementById('passwordInput_register').value
            let
confirmPassword=document.getElementById('confirmPasswordInput_register').value
            if(!validator.isAlpha(validName)){
                notification.title = 'Invalid Name';
                notification.text= 'Please just provide alphabets';
                Swal.fire(notification)
            }else if(!validator.isEmail(email)){
                notification.title= 'Invalid Email';
                notification.text= 'Please just provide a proper email';
                Swal.fire(notification)
            }else if(!validator.isStrongPassword(password)){
                notification.title= 'Invalid Password';
                notification.text= 'Should have number, symbol, uppercase, length
> 8';
                Swal.fire(notification)
            }else if(password!==confirmPassword){
                notification.title= 'Password Mismatch';
                notification.text= 'Password must match';
                Swal.fire(notification)
            }else{
                let credentials = {
                    name : fullname,
                    email: email,
                    password: password,
                }
                let url= new URL("http://localhost:5000/register")
                fetch(url,{
                    method: 'POST',
                    headers: {
                      'Content-Type': 'application/json'
                    },
                    body: JSON.stringify(credentials)
                  }).then((res)=>{
                    res.json().then((data)=>{
                        if(data.status === 200){
                            navigation('/')
                        }else{
                            notification.toast=false
                            notification.position='center'
                            notification.title="Error "+200
```

```
                        notification.text="Please do retry"
                        Swal.fire(notification)
                    }
                })
            })
        }
    }
    return(
        <div>
            <div>
                <Text value="Register"/>
            </div>
            <Input id="nameInput_register" value="Name"/>
            <Input id="emailInput_register" value="Email"/>
            <Input id="passwordInput_register" value="Password"/>
            <Input id="confirmPasswordInput_register" value="Confirm
Password"/>
            <CustomButton function={register} value="Register"/>
        </div>
    )
  }
}
```

REGISTER SCREENSHOT :



DASHBOARD :

```
import React, { useEffect, useState } from "react";
import { Bar, Doughnut } from 'react-chartjs-2';
// import LoadingButton from '@mui/lab/LoadingButton';
import {
    Chart as ChartJS,
    CategoryScale,
    LinearScale,
    BarElement,
    Title,
    Tooltip,
    ArcElement,
    Legend,
} from 'chart.js';
import { Paper, Grid, Box, Avatar, Divider, Typography, IconButton } from
"@mui/material";
import ShoppingCartCheckoutRoundedIcon from "@mui/icons-
material/ShoppingCartCheckoutRounded"
import AccountBalanceRoundedIcon from "@mui/icons-material/AccountBalanceRounded"
import PriceCheckRoundedIcon from "@mui/icons-material/PriceCheckRounded"
import CurrencyRupeeOutlinedIcon from "@mui/icons-material/CurrencyRupeeOutlined"
import AddIcon from '@mui/icons-material/Add';
import Expense from "../expense_page/expense_page";
import expensePage from "../expense_page/expense_page";
import Lottie from 'react-lottie';
import animationData from '../../assets/loading.json';
import './style.css'
export default function Dashboard() {
    // constructor(props) {
    //     super(props);
    //     this.state = {
    //         bargraphdata: [],
    //         piegraphdata: [],
    //         totalExpense: 0,
    //         balance: 0,
    //         dailyExpense: 0,
    //         weeklyExpense: 0,
    //         isDataLoaded: false
    //     };
    // };
    const [bargraphdata, setbargraphdata] = useState([])
    const [bargraphlabel, setbargraphlabel] = useState([])
    const [piegraphdata, setpiegraphdata] = useState([])
```

```
    const [piegraphlabel, setpiegraphlabel] = useState([])
    const [totalExpense, settotalExpense] = useState(0)
    const [balance, setbalance] = useState(0)
    const [dailyExpense, setdailyExpense] = useState(0)
    // const [weeklyExpense,setweeklyExpense] = useState(0)
    const [isDataLoaded, setisDataLoaded] = useState(false)


    const loadData = async () => {
        setisDataLoaded(false)
        let url = new URL("http://localhost:5000/loadData")
        url.searchParams.set('email', email)
        fetch(url).then((res) => {
            res.json().then((data) => {
                console.log(data.resultData)
                // this.state.bargraphdata = data.bargraphdata
                // this.state.piegraphdata = data.piegraphdata
                if (data.resultData.totalExpense < 1000)
                    settotalExpense(data.resultData.totalExpense)
                else
                    settotalExpense(Math.round(data.resultData.totalExpense /
1000) + "k")
                // this.state.balance = data.balance
                // this.state.dailyExpense = data.dailyExpense
                // this.state.weeklyExpense = data.weeklyExpense
                // setBargraphdata(data.bargraphdata)
                setpiegraphdata(data.resultData.piegraphdata)
                setpiegraphlabel(data.resultData.piegraphlabel)
                setbargraphdata(data.resultData.bargraphdata)
                setbargraphlabel(data.resultData.bargraphlabel)
                setdailyExpense(data.resultData.dailyExpense)
                setbalance(data.resultData.balance)
                setisDataLoaded(true)
            })
        })
    }

    useEffect(() => {
        //Runs only on the first render
        loadData()
    }, []);
    // state = {
    //     bargraphdata: [],
    //     piegraphdata: [],
    //     totalExpense: 0,
```

```
//     balance: 0,
//     dailyExpense: 0,
//     weeklyExpense: 0,
//     isDataLoaded: false
// }
const inputurl = new URL(window.location.href)
const email = inputurl.searchParams.get('email')

// const expensePage = () => {
//     // return <>
//         // <Expense email="Hiiiii"/>
//     // </>
//     // alert("HIIIIIIIII")
// }
// const loadData = async () => {
//     let url = new URL("http://localhost:5000/loadData")
//     url.searchParams.set('email',this.email)
//     fetch(url).then((res) => {
//         res.json().then((data) => {
//             console.log(data)
//             // this.state.bargraphdata = data.bargraphdata
//             // this.state.piegraphdata = data.piegraphdata
//             // this.state.totalExpense = data.totalExpense
//             // this.state.balance = data.balance
//             // this.state.dailyExpense = data.dailyExpense
//             // this.state.weeklyExpense = data.weeklyExpense
//             this.setState({ isDataLoaded: !this.state.isDataLoaded })
//         })
//     })
// }
const expense_Page = async () => {
    expensePage(email, balance, loadData)
}

if (balance < 0) {

}

ChartJS.register(
    CategoryScale,
    LinearScale,
    BarElement,
    ArcElement,
    Title,
    Tooltip,
```

```
    Legend
);

const baroptions = {
    responsive: true,
    plugins: {
        legend: {
            position: 'bottom',
        },
        title: {
            display: false,
            // text: 'Chart.js Bar Chart',
        },
    },
    maintainAspectRatio: false,
    barThickness: 10,
    borderRadius: 5,
    // barPercen
}

const pieoptions = {
    plugins: {
        legend: {
            position: 'right',
        },
    },
    maintainAspectRatio: false
}
const piedata = {
    labels: piegraphlabel,
    datasets: [
        {
            label: '# of Votes',
            data: piegraphdata,
            backgroundColor: [
                'rgba(255, 99, 132, 0.2)',
                'rgba(54, 162, 235, 0.2)',
                'rgba(255, 206, 86, 0.2)',
                'rgba(75, 192, 192, 0.2)',
                'rgba(153, 102, 255, 0.2)',
                'rgba(255, 159, 64, 0.2)',
                'rgba(255, 159, 64, 0.2)',
                'rgba(255, 206, 86, 0.2)',
                'rgba(75, 192, 192, 0.2)',
            ],
```

```
                borderColor: [
                    'rgba(255, 99, 132, 1)',
                    'rgba(54, 162, 235, 1)',
                    'rgba(54, 162, 235, 1)',
                    'rgba(255, 206, 86, 1)',
                    'rgba(75, 192, 192, 1)',
                    'rgba(153, 102, 255, 1)',
                    'rgba(255, 159, 64, 1)',
                    'rgba(255, 206, 86, 1)',
                    'rgba(75, 192, 192, 1)',
                ],
                borderWidth: 2,
            },
        ],
    }

    const bardata = {
        labels: bargraphlabel,
        datasets: [
            {
                label: 'Expense',
                data: bargraphdata,
                backgroundColor: 'rgba(53, 162, 235, 0.5)',
            },
        ],
    };

    window.watsonAssistantChatOptions = {
        integrationID: "0ce1b583-c49d-4981-89ce-01bc6c66bd9c", // The ID of this
integration.
        region: "au-syd", // The region your integration is hosted in.
        serviceInstanceID: "92fe30d2-43a9-4e1a-b852-8d5f379c97a2", // The ID of
your service instance.
        onLoad: function (instance) { instance.render(); }
    };
    setTimeout(function () {
        const t = document.createElement('script');
        t.src = "https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
        document.head.appendChild(t);
    });

    return (<>
```

```
        {isDataLoaded ?
            (<Box sx={{ flexGrow: 1 }} className="dashboard-page-container">
                <Grid container spacing={4}>
                    <Grid item xs={3}>
                        <Paper elevation={5} className="card-container" sx={{
height: 85 }}>
                            <Grid container spacing={1}>
                                <Grid item xs={8}>
                                    <Grid item xs={12}>
                                        <Typography variant="body1" gutterBottom>
                                            Balance</Typography></Grid>
                                    <Grid item xs={12}>
                                        <Typography variant="h4" gutterBottom>
                                            {balance}</Typography></Grid>
                                </Grid>
                                <Grid item xs={4}>
                                    <Avatar sx={{ bgcolor: "#5fc", height: 45,
width: 45, marginLeft: 3 }}>
                                        <CurrencyRupeeOutlinedIcon sx={{ width:
20, height: 20 }} />
                                    </Avatar>
                                </Grid>
                            </Grid>
                        </Paper>
                    </Grid>
                    <Grid item xs={3}>
                        <Paper elevation={2} className="card-container" sx={{
height: 85 }}>
                            <Grid container spacing={1}>
                                <Grid item xs={8}>
                                    <Grid item xs={12}>
                                        <Typography variant="body1" gutterBottom>
                                            Total Expense</Typography></Grid>
                                    <Grid item xs={12}>
                                        <Typography variant="h4" gutterBottom>
                                            {totalExpense}</Typography></Grid>
                                </Grid>
                                <Grid item xs={4}>
                                    <Avatar sx={{ bgcolor: "#5fc", height: 45,
width: 45, marginLeft: 3 }}>
                                        <PriceCheckRoundedIcon sx={{ width: 20,
height: 20 }} />
                                    </Avatar>
                                </Grid>
                            </Grid>
```

```
                        </Paper>
                    </Grid>
                    <Grid item xs={3}>
                        <Paper elevation={2} className="card-container" sx={{
height: 85 }}>
                            <Grid container spacing={1}>
                                <Grid item xs={8}>
                                    <Grid item xs={12}>
                                        <Typography variant="body1" gutterBottom>
                                            Daily Expense</Typography></Grid>
                                    <Grid item xs={12}>
                                        <Typography variant="h4" gutterBottom>
                                            {dailyExpense}</Typography></Grid>
                                </Grid>
                                <Grid item xs={4}>
                                    <Avatar sx={{ bgcolor: "#5fc", height: 45,
width: 45, marginLeft: 3 }}>
                                        <ShoppingCartCheckoutRoundedIcon sx={{
width: 20, height: 20 }} />
                                    </Avatar>
                                </Grid>
                            </Grid>
                        </Paper>
                    </Grid>
                    <Grid item xs={3}>
                        <Box onClick={() => expense_Page()}>
                            <Paper elevation={2} className="card-container" sx={{
height: 85 }}>
                                <Grid container spacing={1}>
                                    <Grid item xs={8}>
                                        <Typography variant="h6" gutterBottom
sx={{ marginTop: 1 }}>
                                            Add Expense
                                        </Typography>
                                    </Grid>
                                    <Grid item xs={4}>
                                        {/* <Avatar sx={{ height: 75, width: 75,
}}> */}
                                        {/* <ShoppingCartCheckoutRoundedIcon
sx={{ width: 20, height: 20 }} /> */}
                                        <AddIcon sx={{ width: 50, height: 50,
color: "#f99", marginTop: 2 }} />
                                        {/* </Avatar> */}
                                    </Grid>
                                </Grid>
```

```
                        </Paper>
                    </Box>
                </Grid>
                <Grid item xs={8}>
                    <Paper elevation={2} className="bargraph-container">
                        <Typography variant="h5" gutterBottom>
                            Weekly Expense
                        </Typography>
                        <Divider />
                        <Box sx={{ marginLeft: 4, width: 650, marginTop: 3
}}>
                            <Bar data={bardata} options={baroptions}
height={275} width={10} />
                        </Box>
                    </Paper>
                </Grid>
                <Grid item xs={4}>
                    <Paper elevation={2} className="piegraph-container">
                        <Typography variant="h5" gutterBottom>
                            Category Expense
                        </Typography>
                        <Divider />
                        <Box sx={{ marginTop: 1 }}>
                            <Doughnut data={piedata} options={pieoptions}
height={290} width={50} />
                        </Box>
                    </Paper>
                </Grid>
            </Grid>
        </Box>) : (<Lottie
            options={{
                loop: true,
                autoplay: true,
                animationData: animationData,
                rendererSettings: {
                    preserveAspectRatio: "xMidYMid slice"
                }
            }
            }
            height={400}
            width={400}
        />)}
    </>
    )
```

```
}
```

DASEBOARD SCREENSHOT :