FINAL APPLICATION CODE AND OUTPUT

Date	18 November 2022	
Team ID	PNT2022TMID04500	
Project Name	Project – Personal Expense Tracker Application	

Implementing Various modules

App.py

```
from flask import
Flask,render_template,request,redirect,url_for,session from datetime
import date import ibm_db import bcrypt import re import json import os
from sendgrid import SendGridAPIClient from sendgrid.helpers.mail
import Mail
 app=Flask( name )
app.secret_key='a'
 conn=ibm_db.connect("DATABASE=bludb; HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Securit
y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dgp98488;PWD=T4ZhPsFfV
gztg07H;","","")
@app.route('/') def
home():
    return render_template('signup.html')
@app.route('/dashboard') def
dash():
    return render_template('dashboard.html')
@app.route('/graph') def
graph():
    return render_template('graph.html')
@app.route('/display') def
display():
    print (session["email"],session["id"])
@app.route("/api/login",methods=['POST'])
def login():
                msg={};
                             if
request.method=="POST":
```

```
email=request.form['email']
                                          sql="SELECT * from
       password=request.form['pw']
test where email=?;"
                           stmt=ibm db.prepare(conn,sql)
ibm db.bind param(stmt,1,email)
                                      ibm db.execute(stmt)
account=ibm db.fetch assoc(stmt)
                                       if account and
bcrypt.checkpw(password.encode('utf-8'),
account["PASSWORD"].encode('utf-8')):
session['Loggedin']=True
session['id']=account['USERID']
session['email']=account['EMAIL']
session['name']=account['USERNAME']
msg={"Success": True}
                            else:
           msg={"Success": False, "msg": "Account does not exist or
wrong email/password! Kindly Check!"}
return json.dumps(msg)
@app.route("/api/register",methods=["POST"])
def register():
             if
   msg={}
request.method=="POST":
       password=request.form['pass']
                                    hashed =
bcrypt.hashpw(password.encode('utf-8'), bcrypt.gensalt())
sql="SELECT * FROM test where username=?"
stmt=ibm_db.prepare(conn,sql)
                                    ibm_db.bind_param(stmt,1,username)
ibm db.execute(stmt)
                          account=ibm_db.fetch_assoc(stmt)
account:
           msg={"Success": False, "msg": "Account already exists!!"}
elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):
           msg={"Success": False, "msg": "Invalid Email Address!"}
elif not re.match(r'([a-zA-Z]|[0-9])+',username):
           msg={"Success": False, "msg": "Name must contain only characters
and numbers!"}
                      else:
           insert_sql="INSERT into test(email, username, password) values
(?,?,?);"
prep stmt=ibm db.prepare(conn,insert sql)
ibm_db.bind_param(prep_stmt,1,email)
ibm_db.bind_param(prep_stmt,2,username)
ibm_db.bind_param(prep_stmt,3,hashed)
ibm_db.execute(prep_stmt)
```

 $\label{eq:msg} \textbf{msg} = \{ \text{"Success": True, "msg": "You have registered for the } \\$

Арр

```
successfully!"}
return json.dumps(msg)
@app.route("/api/expenses", methods=["POST"]) def add_expense():
                                                                  if "id"
in session.keys():
                         user = session["id"]
                                                      date now =
                            amount = request.form["amount"]
request.form["date"]
category = request.form["category"]
                                          insert sql="INSERT into
expenses(user, date, amount, category) values
(?,?,?,?);"
prep_stmt=ibm_db.prepare(conn,insert_sql)
ibm_db.bind_param(prep_stmt,1,user)
ibm_db.bind_param(prep_stmt,2,date_now)
ibm_db.bind_param(prep_stmt,3,amount)
ibm_db.bind_param(prep_stmt,4,category)
                                              msg =
{"msg": f"{ibm_db.execute(prep_stmt)}",}
print("Calling Send...")
                                send(user,
session["email"])
                         return json.dumps(msg);
return json.dumps({"msg": "Invalid session: Log in"});
@app.route("/api/expenses", methods=["GET"]) def
                   if "id" in session.keys():
view_expense():
                                                     user =
session["id"]
                     sql_stmt="SELECT * from expenses where
expenses.user=?"
                        stmt=ibm_db.prepare(conn,sql_stmt)
ibm_db.bind_param(stmt,1,user)
                                      ibm_db.execute(stmt)
row = ibm_db.fetch_assoc(stmt)
                                     ret = []
                                                      while
row != False:
           ret.append({"user":row["USER"], "amount": -row["AMOUNT"],
"category": row["CATEGORY"], "date": f"{row['DATE']}"})
row = ibm_db.fetch_assoc(stmt)
json.dumps(ret)
                   return json.dumps({"msg": "Invalid
session: Log in"});
@app.route("/api/expenses_by_category", methods=["GET"]) def
sql_stmt="SELECT category, SUM(amount) as amount from
session["id"]
expenses where expenses.user=? and amount>0 group by category"
stmt=ibm_db.prepare(conn,sql_stmt)
```

ibm_db.bind_param(stmt,1,user)

```
ret = {"food":0,"entertainment":0,"shopping":0, "emi": 0, "rent":0,
"others": 0}
                   while
row != False:
           ret[row["CATEGORY"]]= row["AMOUNT"]
row = ibm db.fetch assoc(stmt)
json.dumps(ret)
                return json.dumps({"msg": "Invalid
session: Log in"});
@app.route("/api/balance", methods=["GET"]) def view_balance():
if "id" in session.keys():
                               user = session["id"]
sql_stmt="SELECT SUM(amount) as balance from expenses where
expenses.user=?" stmt=ibm db.prepare(conn,sql stmt)
ibm_db.bind_param(stmt,1,user)
                                   ibm db.execute(stmt)
row = ibm db.fetch assoc(stmt)
                                                   if row !=
                                   ret = {};
False and row["BALANCE"]!=None:
          ret["balance"]= -row["BALANCE"];
else:
          ret["balance"]= 0;
                                   return
json.dumps(ret)
                return json.dumps({"msg": "Invalid
session: Log in"});
@app.route("/api/session", methods=["GET"]) def
get session():    if "id" in session.keys():
                                                 ret
           ret['id']=session['id']
= {}
ret['email']=session['email']
ret['name']=session['name']
                               return
                return json.dumps({"msg": "Invalid")
json.dumps(ret)
session: Log in"});
@app.route("/api/session",
methods=["DELETE"]) def clear_session():
session.clear();
                  return
json.dumps({"Success":True})
def send(user,
email):
   from expenses where expenses.user=?"
```

```
stmt=ibm db.prepare(conn,sql stmt)
   row = ibm db.fetch assoc(stmt)
                               ret = {};
                                             if row != False
and row["BALANCE"]!=None and row["BALANCE"]>0:
       message=Mail(from_email='ramyanmsr@gmail.com',
to_emails=email,
                                   subject='ALERT!! Budget Exceeded!',
plain text content='Budget has been crossed for this month',
html_content='<strong>Hi user,<br>You have crossed your budget for this
month. Its a remainder for you to start saving!</strong>')
                                                              try:
           sg =
SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
print(os.environ.get('SENDGRID_API_KEY'))
response=sg.send(message)
                                   print(response.status code)
print(response.body)
                               print(response.headers)
        except Exception as
e:
           print(e)
if __name__ ==
__main__":
   app.run(host="0.0.0.0", debug=True)
```

• Login and Registration Source Code:

```
<div class="front">
                     <div class="text">
                     </div>
                </div>
                <div class="back">
                     <div class="text">
                     </div>
                </div>
            </div>
            <div class="forms">
                <div class="form-content">
                     <div class="login-form">
                         <div class="title">Login</div>
                         <form onsubmit="submitLoginForm(event)">
                             <div class="input-boxes">
                                 <div class="input-box">
                                      <i class="fas fa-envelope"></i></i>
                                      <input type="text" id="email" name="email"</pre>
placeholder="Enter your email" required>
                                 </div>
                                 <div class="input-box">
                                      <i class="fas fa-lock"></i></i>
                                      <input type="password" id="pw" name="pw"</pre>
placeholder="Enter your password" required/>
                                      <i onclick="toggleShowPass(event)" style =</pre>
"padding-left:330px;"class="fa fa-eye"></i>
                                 </div>
                                 <div class="button input-box">
                                      <input type="submit" value="Submit">
</div>
                                 <div class="text sign-up-text">Don't have an
account? <label for="flip">Signup now</label></div>
                             </div>
                         </form>
                     </div>
                     <div class="signup-form">
                         <div class="title">Signup</div>
<form onsubmit="submitRegisterForm(event)">
                             <div class="input-boxes">
                             <div class="input-boxes">
                                 <div class="input-box">
                                      <i class="fas fa-user"></i></i>
                                      <input type="text" id="name" name="name"</pre>
placeholder="Enter your name" required>
                                 </div>
                                 <div class="input-box">
                                      <i class="fas fa-envelope"></i></i>
```

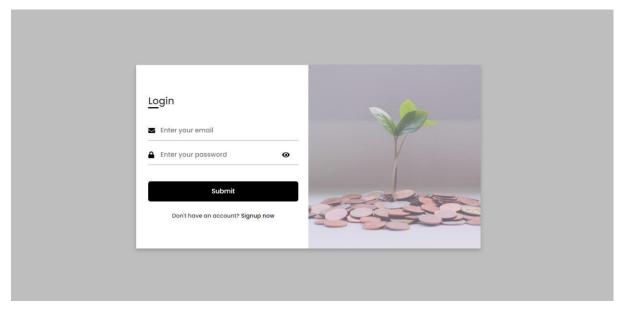
```
<input type="text" id="email" name="email"</pre>
placeholder="Enter your email" required>
                                  </div>
                                  <div class="input-box">
                                      <i class="fas fa-lock"></i></i>
<input type="password" id="pass" name="pass" placeholder="Enter your</pre>
password" required>
                                      <i onclick="toggleShowPass(event)" style =</pre>
"padding-left:330px;"class="fa fa-eye"></i>
                                  </div>
                                  <div class="button input-box">
                                      <input type="submit" value="Submit">
                                  </div>
                                  <div class="text sign-up-text">Already have an
account? <label for="flip">Login now</label></div>
                             </div>
                         </form>
                     </div>
                 </div>
            </div>
        </div>
        <script type="text/javascript" src="{{ url_for('static',</pre>
filename='js/script.login.js') }}"></script>
    </body>
```

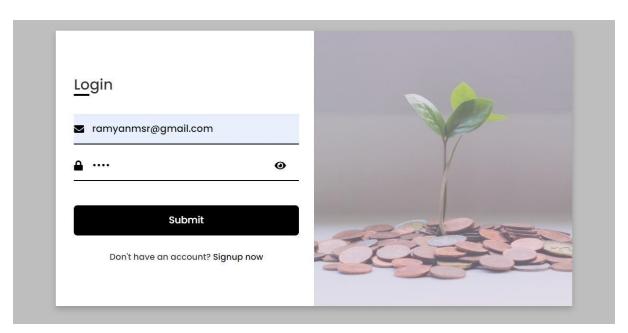
Java Script file:

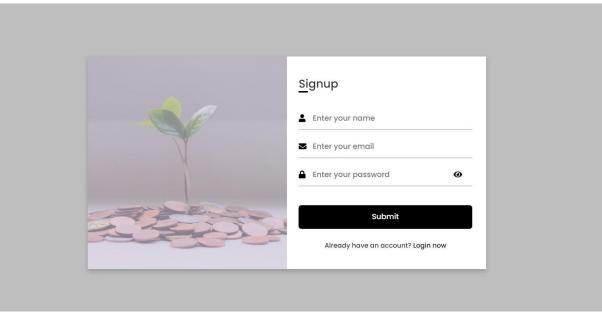
```
let toggleShowPass = (event) => {
                                    let x =
event.currentTarget.parentElement.querySelector("input");
                                                             if
(x.type === "password") {
       x.type = "text";
    } else {
        x.type = "password";
 const submitLoginForm = (e)
    e.preventDefault()
    let form = event.currentTarget;
fetch("http://localhost:5000/api/login", {
method: "POST",
       body: new FormData(form)
    })
    .then(body=>body.json())
    .then((x)=>{
if (!x.Success){
alert(x.msg);
```

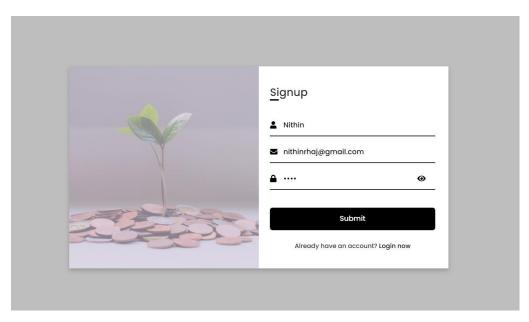
```
} else {
                            window.location =
"http://localhost:5000/dashboard"
   })
} const submitRegisterForm = (e)
    e.preventDefault() let form =
event.currentTarget;
fetch("http://localhost:5000/api/register", {
method: "POST",
       body: new FormData(form)
   })
    .then(body=>body.json())
    .then((x) = > {
if (!x.Success){
alert(x.msg);
       } else {
                           window.location =
"http://localhost:5000/"
   })
```

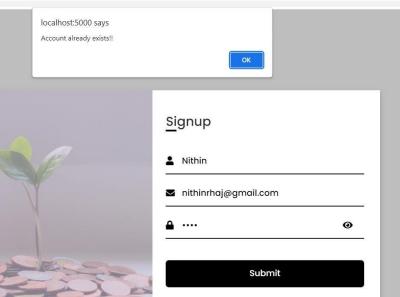
Output:





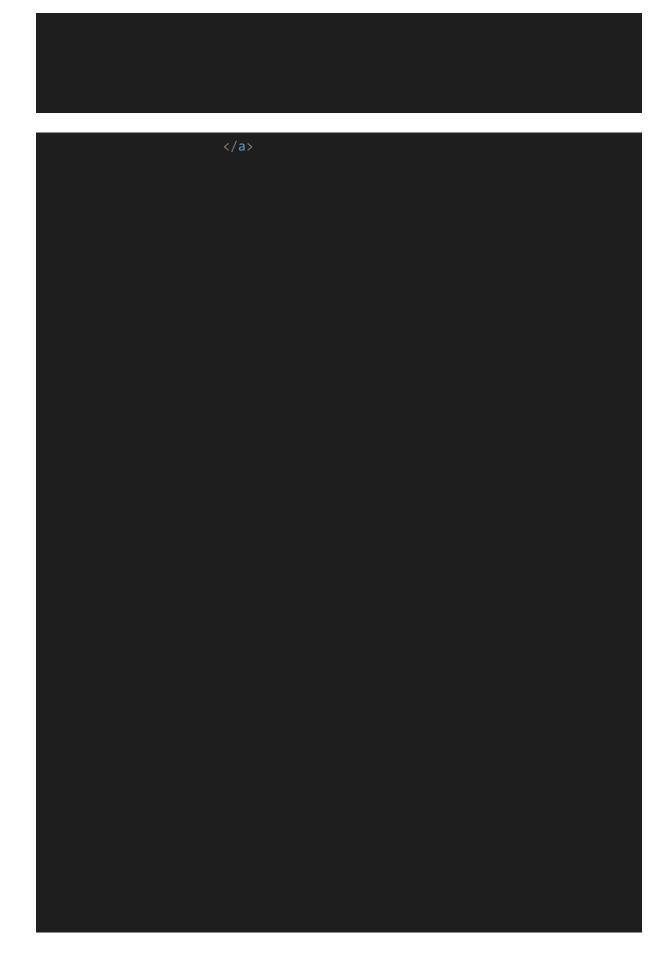






 Dashboard – Add Money to wallet & Add Expenditures Source Code:

```
src="https://assets.codepen.io/285131/almeria-logo.svg" />
                         </span>
                         <h1 class="logo-title">
                             <span>The Wallet</span>
                             <span>Expense Tracker</span>
                     </div>
                </div>
                <div class="app-header-navigation">
                     <div class="tabs">
                         <marquee direction="right"><h1>If you are saving, you
are succeeding...</h1></marquee>
                     </div>
                </div>
                <div class="app-header-actions">
                     <button class="user-profile">
                         <span id="user_name">Loading...</span>
                         <span>
                             <img src="{{ url_for('static',</pre>
filename='images/profile.webp') }}" />
                         </span>
                     </button>
                     <div class="app-header-actions-buttons">
                         <button class="icon-button large" onclick="logout()">
                             <i class="ph-sign-out"></i></i>
                         </button>
                     </div>
                </div>
                <div class="app-header-mobile">
                     <button class="icon-button large">
                         <i class="ph-list"></i></i>
                     </button>
                </div>
            </header>
            <div class="app-body">
                <div class="app-body-navigation">
                     <nav class="navigation">
                         <a href="/graph">
                             <i class="ph-browsers"></i></i>
<span>Dashboard</span>
```



```
</footer>
                </div>
                <div class="app-body-main-content">
                    <section class="service-section">
                        <h2>Expenses</h2>
                        <!-- <div class="service-section-header">
                             <div class="search-field">
                                 <i class="ph-magnifying-glass"></i></i>
<input type="text" placeholder="Account number">
                             </div> -->
                            <!-- For Joint account drop down based on account
                            <!-- <div class="dropdown-field">
                             </div>
                             <button class="flat-button">
                                 Search
                             </button>
                        </div>
                        <div class="mobile-only">
                             <button class="flat-button">
                                 Toggle search
                            </button>
                        <div class="tiles">
                             <article class="tile">
                                 <div class="tile-header">
                                     <span>
                                         <img src="{{ url_for('static',</pre>
filename='images/cutlery.jpg') }}" style="height: 65px;"/>
                                     </span>
                                         <span><b> Food </b></span>
                                     </h3>
                                 </div>
                                 <a href="#divOne">
                                     <span>Add expenses
                                     <span class="icon-button">
                                         <i class="ph-caret-right-bold"></i></i>
                                     </span>
```

```
</span>
                                          <span>Entertainment</span>
                                 </div>
                                 <a href="#divOne">
                                     <span>Add expenses</span>
                                     <span class="icon-button">
                                          <i class="ph-caret-right-bold"></i></i>
                                     </span>
                                 </a>
                             </article>
                             <article class="tile">
                                 <div class="tile-header">
                                     <span>
                                          <img src="{{ url_for('static',</pre>
filename='images/shopping.png') }}" style="height: 65px;"/>
                                     </span>
                                          <span>Shopping</span>
                                     </h3>
                                 </div>
                                 <a href="#divOne">
                                     <span>Add expenses
                                     <span class="icon-button">
                                          <i class="ph-caret-right-bold"></i></i>
                                     </span>
                                 </a>
                             </article>
                             <article class="tile">
                                 <div class="tile-header">
                                     <span>
                                          <img src="{{ url_for('static',</pre>
filename='images/EMI.jpg') }}" style="height: 65px;"/>
                                     </span>
                                          <span>EMI</span>
                                     </h3>
                                 </div>
                                 <a href="#divOne">
```

Add expenses

```
<span>
                                         <img src="{{ url_for('static',</pre>
filename='images/house.jpeg') }}" style="height: 65px;"/>
                                     </span>
                                         <span>Rent</span>
                                     </h3>
                                 </div>
                                 <a href="#divOne">
                                     <span>Add expenses
                                     <span class="icon-button">
                                         <i class="ph-caret-right-bold"></i>
                                     </span>
                                 </a>
                            </article>
                            <article class="tile">
                                 <div class="tile-header">
                                     <span>
                                         <img src="{{ url_for('static',</pre>
filename='images/misc.jpg') }}" style="height: 65px;"/>
                                     </span>
                                         <span>Others</span>
                                     </h3>
                                 </div>
                                 <a href="#div0ne">
                                     <span>Add expenses
                                     <span class="icon-button">
                                         <i class="ph-caret-right-bold"></i></i>
                                     </span>
                                 </a>
                            </article>
                        </div>
```

```
</section>
                    <section class="transfer-section">
                         <div class="transfer-section-header">
                             <h2>Recent Expenses</h2>
                             <div class="filter-options">
                                 Filter 
                                 <button class="icon-button"</pre>
onclick="reverseTransactions()">
                                     <i class="ph-funnel"></i></i>
                                 </button>
                             </div>
                         </div>
                         <div class="transfers">
                         </div>
</section>
                </div>
                <div class="app-body-sidebar">
                    <section class="payment-section">
                         <h2>Digital Wallet</h2>
                        <div class="payment-section-header">
                             Saving, Investing and Tracking
                        </div>
                        <div class="payments">
                            <div class="payment">
                                 <div class="card green">
                                     <span>&nbsp;</span>
                                         <img src="{{ url for('static',</pre>
filename='images/wallet2.png') }}" style="height: 60px;"/>
                                     </span>
                                     <span>
                                         Balance
                                     </span>
                                 </div>
                                 <div
                                                      class="payment-details">
<span style="display: flex; justifycontent: space-between;">
                                                                  Balance</h3>
                                         <h3>Wallet
<button onclick="openBalPopup()" id="myBtn">Add to Wallet</button>
                                     </span>
                                     <div>
```

<label>What financial mistakes should one

```
refrain from?</label>
                                     <span style="color:#D1C1C1"</pre>
align="justify">Ensure that your under graduation loan amount should not
be more than your first year salary. Another mistake to avoid is playing
with credit card.</span>
                                                           </div>
                                 <div>
                                     <label>How to manage debt and boost your
credit score?</label>
                                                        style="color:#D1C1C1"
                                     <span
align="justify">Do not be influenced by your peers, but stick to maintaining
your own budget. Take up any campus employment to balance your expenditures
and make a saving, along with offering and gaining valued experience. </span>
                                 </div>
                             </div>
                        </div>
                    </section>
                </div>
            </div>
            <div id="myModal" class="modal">
                <div class="modal-content">
<span class="close"</pre>
onclick="delParent(event)">×</span>
                    <form onsubmit="updateBalance(event)" style="color:black">
                        <h1 style="font-weight: bolder; font-size:</pre>
xlarge;"><center>Modify Wallet Balance</center></h1>
                        <br/>
                        <div style="margin-left:185px; margin-top: 2px;">
                             <label for="amount" style="font-size:</pre>
large;"><b>Amount : </b></label>
                            <input type="number" style="margin-left:1px"</pre>
placeholder="Enter Amount" name="amount" required />
                            <button type="submit" class="btn">Add</button>
                        </div>
                    </form>
                </div>
            </div>
            <div class="overlay" id="divOne">
                <div class="wrapper">
                    <h2>Please Fill up The Expenses Form</h2><a class="close"
href="#">&times:</a>
                    <div class="content">
                        <div class="container">
```

<form onsubmit="addExpense(event)"> <label>Expense
 Category</label> <select name="category">

```
<option
value="entertainment">Entertainment
                                    <option value="shopping">Shopping</option>
                                    <option value="emi">EMI</option>
                                    <option value="rent">Rent</option>
                                    <option value="others">Others</option>
                                </select>
                                <label>Date</label><br/>
                                        class="popup" placeholder="Date.."
                                <input
type="date" required name="date">
                                <label>Location</label>
                                <input placeholder="Place of Purchase..."</pre>
type="text" class="popup">
                                <label>Amount</label> <br/>
<input class="popup" type="number" placeholder="Enter Amount..."</pre>
name="amount" required />
                                <input class="popup" type="submit" value="Add</pre>
Expense">
                            </form>
                        </div>
                    </div>
                </div>
            </div>
            <!-- partial -->
            <script src='https://unpkg.com/phosphor-icons'></script>
src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
<script type="text/babel" src="{{ url for('static',</pre>
filename='/js/script.dashboard.js') }}"></script>
            <script>
                window.watsonAssistantChatOptions = {
                  integrationID: "8f7293cb-e55e-49e7-a937-915057242eca", //
The ID of this integration.
                  region: "au-syd", // The region your integration is hosted
                  serviceInstanceID: "68106b4c-302a-41d4-bdf5-00458ba09a25",
// The ID of your service instance.
                                                      onLoad:
function(instance) { instance.render(); }
                setTimeout(function(){
const t=document.createElement('script');
t.src="https://webchat.global.assistant.watson.appdomain.cloud/versions/" +
```

<pre>(window.watsonAssistantChatOptions.clientVersion 'late</pre>	st') +
"/WatsonAssistantChatEntry.js";	

<option
value="food">Food</option>

Java Script File to work as API:

```
/** @jsx createElement */
/*** @jsxFrag createFragment */
 const createElement = (tag, props, ...children) => {
(typeof tag === "function") return tag(props, ...children);
const element = document.createElement(tag);
    Object.entries(props || {}).forEach(([name, value]) => {
                                                                    if
(name.startsWith("on") && name.toLowerCase() in window)
element.addEventListener(name.toLowerCase().substr(2), value);
else element.setAttribute(name, value.toString());
                                  appendChild(element, child);
children.forEach(child => {
    });
return element;
}; const appendChild = (parent, child)
        if (Array.isArray(child))
        child.forEach(nestedChild => appendChild(parent,
nestedChild));
                   else
                                parent.appendChild(child.nodeType ?
child :
document.createTextNode(child));
const createFragment = (props, ...children) => {
return children;
};
const displayBalance = () => {
    let val = document.guerySelector("#balance")
fetch("http://localhost:5000/api/balance")
    .then(body=>body.json())
    .then((x)=>{
        val.innerHTML=x.balance;
})
```

```
} const displayName = ()
=> {
```

```
let val = document.querySelector("#user name")
fetch("http://localhost:5000/api/session")
    .then(body=>body.json())
    .then((x) = > {
if ("name" in x){
            val.innerHTML=x.name;
        } else {
                             window.location =
"http://localhost:5000"
   })
} const Transaction = (props)
    <div class="transfer">
        <div class="transfer-logo">
src="https://upload.wikimedia.org/wikipedia/commons/3/3e/Dollar_sign_in_circle
.svg" />
        </div>
        <dl class="transfer-details">
            <div>
                <dt>{props? props.category : "other"}</dt>
                <dd>{props? props.category : "other"}</dd>
            </div>
            <div>
                <dt>{props? props.date : ""}</dt>
                <dd>Date payment</dd>
            </div>
        </dl>
        <div class="transfer-number">
            {props? props.amount : 0}
        </div>
   </div>
) const reverseTransactions = () => {
displayTransactions(displayTransactions.reverse); }
const displayTransactions = (bool) => {
(bool===true) {
                       displayTransactions.reverse =
false;
```

```
if (bool===false){
displayTransactions.reverse = true; } let
val = document.querySelector("#balance")
fetch("http://localhost:5000/api/expenses")
```

```
.then(body=>body.json())
    .then((x)=>{
                         let node = document.querySelector(".transfer-
               if (displayTransactions.reverse){
section")
x.reverse();
        .replaceChild(
           <div class="transfers">
                {x.map(row=>(<Transaction)</pre>
                                              category={row.category}
date={row.date} amount={row.amount}/>))}
           </div>
        ,node.querySelector(".transfers"))
   })
} const delParent = (e) => {
   e.currentTarget.parentElement.remove();
} const updateBalance = (e) => {
    e.preventDefault() let form = event.currentTarget;
form_data = new FormData(); form_data.append("category", "others")
let yourDate = new Date()
                            form data.append("date",
yourDate.toISOString().split('T')[0])
fetch("http://localhost:5000/api/balance")
    .then(body=>body.json())
    .then((x)=>{
                        form_data.append("amount",
+(x.balance)form.querySelector("input[name='amount']").value)
fetch("http://localhost:5000/api/expenses", {
method: "POST",
                           body: form data
        })
            .then(body=>body.json())
            .then((x)=>{
               if (!x.Success){
                                                    //alert(x.msg);
main();
                       } else {
                                                    window.location =
"http://localhost:5000/dashboard"
```

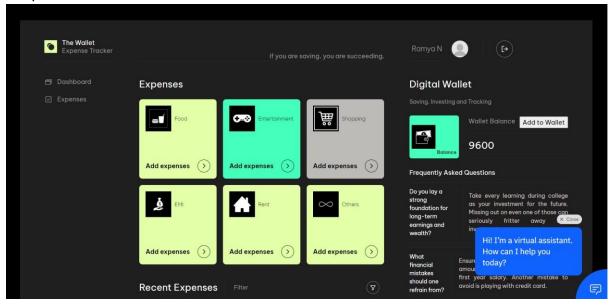
})
})

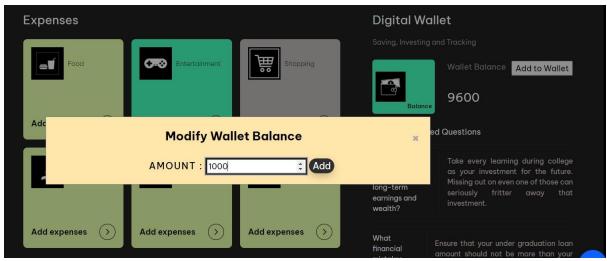
```
const addExpense = (e) => {
    e.preventDefault() let form =
event.currentTarget;
fetch("http://localhost:5000/api/expenses", {
method: "POST",
       body: new FormData(form)
    })
    .then(body=>body.json())
    .then((x)=>{
       if (!x.Success){
                                   //alert(x.msg);
main();
               } else {
                                    window.location =
"http://localhost:5000/dashboard"
   })
} const openBalPopup = (e) => {
                                  var modal =
document.getElementById("myModal");
                                       var btn =
document.getElementById("myBtn");
                                    var span =
document.getElementsByClassName("close")[0];
                                            btn.onclick =
                    modal.style.display = "block";
document.querySelector("body").style.overflow="hidden";
         span.onclick = function() {
modal.style.display = "none";
document.querySelector("body").style.overflow="unset";
} const logout = () => {
fetch("http://localhost:5000/api/session",{
method: "DELETE"
   })
    .then(()=>{
       window.location = "http://localhost:5000/"
   })
} const main = ()
```

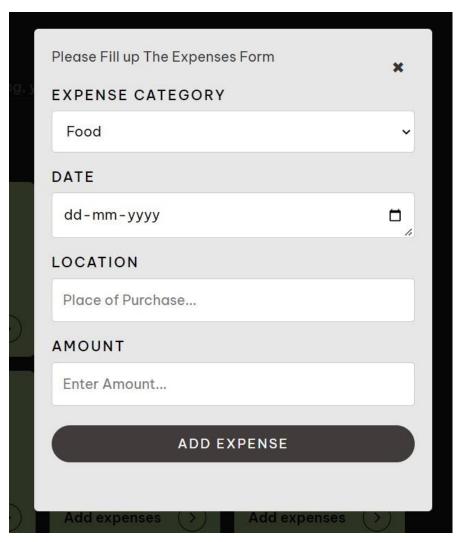
```
displayBalance()
displayTransactions.reverse = true;
```

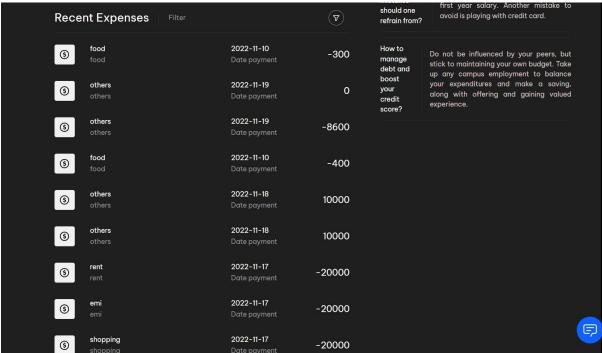
```
displayTransactions()
displayName()
}
window.onload =
main
main()
```

Output:

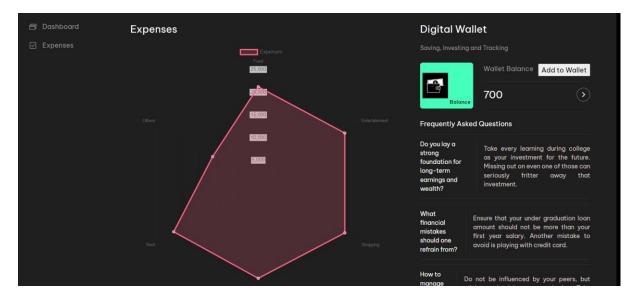








Graphical Representation of Expenses:



Integrate Sendgrid and send emails using Sendgrid Source

Code:

If expenditure exceeds the budget, a notification will be sent as an email:

```
ramyanmsr@gmail.com
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
127.0.0.1 - [19/Nov/2022 14:22:33] "GET /api/balance HTTP/1.1" 200 -
202
b''
Server: nginx
Date: Sat, 19 Nov 2022 08:52:43 GMT
Content-Length: 0
Connection: close
X-Message-Id: udinYWVjRz2ztHEtAaMCdA
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains
```



Integrating Chatbot (IBM Watson) with the Application

