Sprint 2 PROJECT_DEVELOPMENT_PHASE

Date	05 November 2022
Team ID	PNT2022TMID49592
Project Name	Project - Personal expense tracker application

CODE:

app.py(updated):

```
from flask import Flask, render template, request, redirect, url for, session
import ibm db
import re
from flask import *
from flask import Flask
from random import *
from flask mail import Mail, Message
app = Flask(__name__)
mail = Mail(app) # instantiate the mail class
# configuration of mail
app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL PORT'] = 465
app.config['MAIL_USERNAME'] = 'shrikumar13102001@gmail.com'
app.config['MAIL PASSWORD'] = 'mlzuhzieegwenrhc'
app.config['MAIL USE TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)
otp = randint(000000,9999999)
app.secret key = 'a'
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1o
gj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCerti
ficate=DigiCertGlobalRootCA.crt;UID=jpg92341;PWD=5HWT2ImD7POkuLnv",",")
@app.route("/")
def home():
 return render template('index.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
  global userid
  msg = "
  if request.method == 'POST'and 'email' in request.form and 'password' in request.form:
    email = request.form['email']
```

```
password = request.form['password']
    stmt = ibm_db.prepare(conn, 'SELECT * FROM register WHERE email = ? AND password
= ?')
    ibm db.bind param(stmt,1,email)
    ibm db.bind param(stmt,2,password)
    ibm db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    if account:
       session['loggedin'] = True
       session['email'] = account['EMAIL']
       msg = 'Logged in successfully!'
       return render_template('add.html', msg = msg)
    else:
       msg = 'Incorrect username / password !'
  return render template('login.html', msg = msg)
@app.route('/wallet')
def wallet():
  return render_template('design.html')
@app.route('/income', methods =['GET', 'POST'])
def income():
  if request.method == 'POST':
       amount = request.form['amount']
       income = request.form['income']
       expense = request.form['expense']
       category = request.form['category']
       insertSQL = "INSERT INTO addexpense VALUES (?, ?, ?, ?)"
       stmt = ibm db.prepare(conn, insertSQL)
       ibm db.bind param(stmt, 1, amount)
       ibm_db.bind_param(stmt, 2, income)
       ibm_db.bind_param(stmt, 3, expense)
       ibm db.bind param(stmt, 4, category)
       ibm db.execute(stmt)
  return render_template('add.html')
@app.route('/register', methods =['GET', 'POST'])
def register():
  msq = "
  if request.method == 'POST':
    firstname = request.form['firstname']
    lastname = request.form['lastname']
    email = request.form['email']
    password = request.form['password']
    cpassword = request.form['cpassword']
```

```
birthdate = request.form['birthdate']
     phonenumber = request.form['phonenumber']
     job = request.form['job']
     income = request.form['income']
     sql = "SELECT * FROM register 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)
     print(account)
     if account:
       msg = 'Account already exists!'
     elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
       msg = 'Invalid email address!'
     elif not re.match(r'[A-Za-z0-9]+', firstname):
       msg = 'firstname must contain only characters and numbers !'
     elif not email or not firstname or not password:
       msg = 'Please fill out the form!'
     else:
       insert sql = "INSERT INTO register VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?)"
       stmt = ibm db.prepare(conn,insert sql)
       ibm_db.bind_param(stmt, 1, firstname)
       ibm db.bind param(stmt, 2, lastname)
       ibm db.bind param(stmt, 3, email)
       ibm_db.bind_param(stmt, 4, password)
       ibm db.bind param(stmt, 5, cpassword)
       ibm db.bind param(stmt, 6, birthdate)
       ibm db.bind param(stmt, 7, phonenumber)
       ibm db.bind param(stmt, 8, job)
       ibm_db.bind_param(stmt, 9, income)
       ibm db.execute(stmt)
       msg = 'You have successfully registered!'
       return render template('email.html')
  elif request.method == 'POST':
     msg = 'Please fill out the form!'
  return render template('register.html', msg = msg)
@app.route('/verify', methods=['GET', 'POST'])
def verify():
  if request.method == 'POST':
     email1 = request.form['email1']
     sql = "SELECT * FROM validate WHERE email1 = ? "
     stmt = ibm db.prepare(conn,sql)
     ibm_db.bind_param(stmt,1,email1)
```

```
ibm db.execute(stmt)
     account = ibm_db.fetch_assoc(stmt)
     print(account)
     if account:
       msg = 'Account already exists!'
     else:
      insert sql = "INSERT INTO validate VALUES (?)"
      stmt = ibm_db.prepare(conn,insert_sql)
      ibm db.bind param(stmt, 1, email1)
      ibm db.execute(stmt)
      msg = Message('Hello',sender ='shrikumar13102001@gmail.com',recipients = [email1])
      msg.body = 'Hello Flask message sent from Flask-Mail'
      msg.body = str(otp)
      mail.send(msg)
      return render template('verify.html')
  else:
    return render template('email.html')
@app.route('/validate',methods=['GET', 'POST'])
def validate():
user otp = request.form['otp']
if otp == int(user otp):
   return render_template('index.html')
if name == ' main ':
  app.run(debug = True)
USN 5:
WALLET UPDATE:
wallet.html
<!DOCTYPE html>
<html>
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
<script type="text/javascript">
 google.charts.load('current', {'packages':['corechart']});
 google.charts.setOnLoadCallback(drawChart);
 function drawChart() {
  var data = google.visualization.arrayToDataTable([
   ['Items', 'Income', 'Expenses'],
```

```
['Education', 10000,
                           1000],
   ['Grocery', 9000,
                         1500],
   ['Hospital', 7500,
                          250],
   ['vehicle', 7250, 250]
  ]);
  var options = {
   title: 'Expense Tracker',
   curveType: 'function',
   legend: { position: 'bottom' }
  };
  var chart = new google.visualization.LineChart(document.getElementById('curve_chart'));
  chart.draw(data, options);
 }
</script>
 <style>
  body {
   background-image: "{{ url_for('static', filename='images/bg1.jpg') }}"
  }
.navbar {
 overflow: hidden;
 background-image: linear-gradient(to right, #8e2de2, #4a00e0);
 font-family: Arial, Helvetica, sans-serif;
}
.navbar a {
 float: left;
 font-size: 16px;
 color:#1e0076;
 text-align: center;
 padding: 14px 16px;
 text-decoration: none;
}
.dropdown {
 float: left;
 overflow: hidden;
 background-color: #8e2de2;
 font-family: Arial, Helvetica, sans-serif;
}
.dropdown .dropbtn {
 cursor: pointer;
```

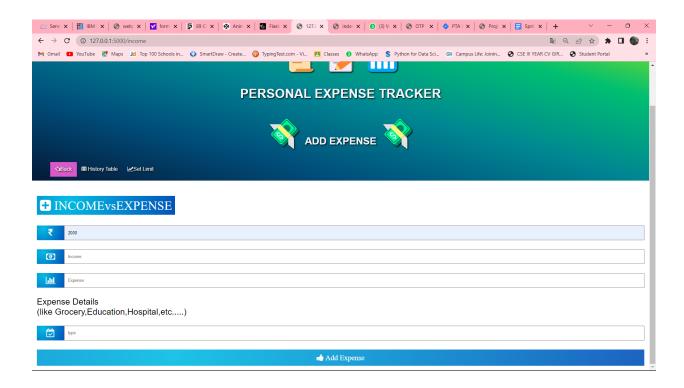
```
font-size: 16px;
 border: none;
 outline: none;
 color:#1e0076;
 padding: 14px 16px;
 background-color: inherit;
 font-family: inherit;
 margin: 0;
.navbar a:hover, .dropdown:hover .dropbtn, .dropbtn:focus {
  background-color:#daebef;
}
.dropdown-content {
 display: none;
 position: absolute;
 background-image: linear-gradient(to right, #8e2de2, #4a00e0);
 min-width: 160px;
 box-shadow: #daebef;
 z-index: 1;
}
.dropdown-content a {
 float: none;
 color:#1e0076;
 padding: 12px 16px;
 text-decoration: none;
 display: block;
 text-align: left;
}
.dropdown-content a:hover {
 background-color:#daebef;
}
.show {
 display: block;
}
table{
background-image: linear-gradient(to left, #8e2de2, #4a00e0);
font-family: Arial, Helvetica, sans-serif;}
td{
```

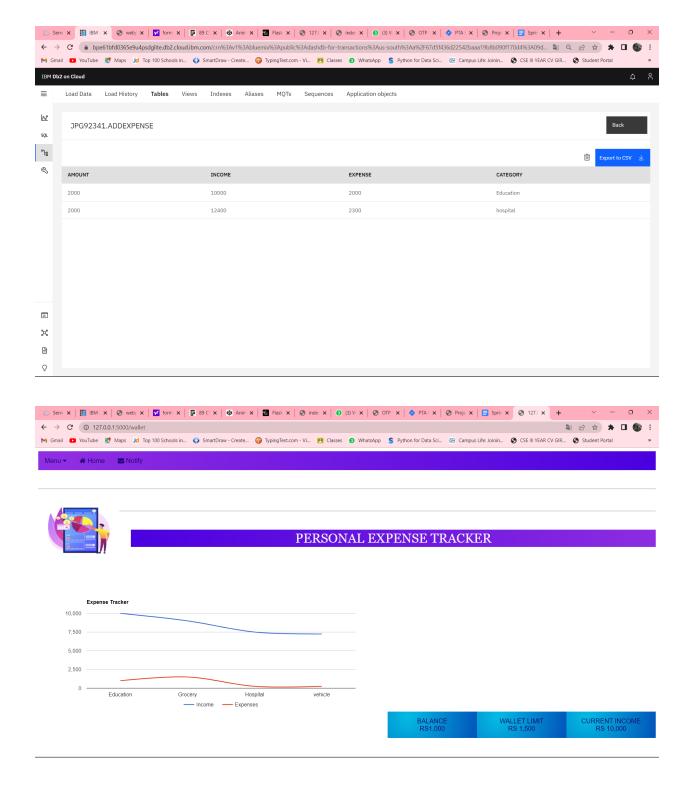
```
font-family: Georgia, 'Times New Roman', Times, serif;
  color:whitesmoke;
  font-size: xx-large;
}
income{
  width: 200px;
  background-image: radial-gradient( circle farthest-corner at 22.4% 21.7%, rgba(4,189,228,1)
0%, rgba(2,83,185,1) 100.2%);
  font-family: Arial, Helvetica, sans-serif;
  align-items:right;
  color:#1e0076;
  float: right;
  font-size: 16px;
  text-align: center;
  padding: 14px 10px;
  text-decoration: none;
}
wallet{
  width: 200px;
  background-image: radial-gradient( circle farthest-corner at 22.4% 21.7%, rgba(4,189,228,1)
0%, rgba(2,83,185,1) 100.2%);
  font-family: Arial, Helvetica, sans-serif;
  align-items: right;
  color:#1e0076;
  float: right;
  font-size: 16px;
  text-align: center;
  padding: 14px 10px;
  text-decoration: none;
}
balance {
 width: 200px;
 background-image: radial-gradient( circle farthest-corner at 22.4% 21.7%, rgba(4,189,228,1)
0%, rgba(2,83,185,1) 100.2%);
 font-family: Arial, Helvetica, sans-serif;
 align-items:right;
 color:#1e0076;
 float: right;
 font-size: 16px;
```

```
text-align: center;
 padding: 14px 10px;
 text-decoration: none;
}
</style>
</head>
<body>
<div class="dropdown">
 <button class="dropbtn" onclick="myFunction()">Menu
  <i class="fa fa-caret-down"></i>
 </button>
 <form action="{{ url_for('wallet') }}" method="post"></form>
 <div class="dropdown-content" id="myDropdown">
  <hr><br>
  <a href="#back"><center><i class="fa fa-hand-o-left" style="font-size:24px"></i>
Back</center></a><hr><br>
  <a href="#history"><center><i class="fa fa-table" style="font-size:24px"></i> History
Table</center></a><hr><br>
  <a href="/income"><center><i class="fa fa-rupee" style="font-size:24px"></i> Add
Expense</center></a><hr><br>
  <a href="#limit"><center><i class="fa fa-line-chart" style="font-size:24px"></i> Set
Limit</center></a> </hr></br>
 </div>
 </div>
 </div>
<div class="navbar">
 <a href="#home"><i class="fa fa-home"></i> Home</a>
 <a href="#notify"><i class="fa fa-envelope"></i> Notify</a>
</form>
</div>
<script type="text/javascript">
function myFunction() {
 document.getElementById("myDropdown").classList.toggle("show");
window.onclick = function(e) {
 if (!e.target.matches('.dropbtn')) {
 var myDropdown = document.getElementById("myDropdown");
  if (myDropdown.classList.contains('show')) {
   myDropdown.classList.remove('show');
  }
```

```
}
}
</script>
</br><br>
<hr><br>
<image>
<img src="{{ url_for('static', filename='bg1.jpg') }}" width="200" height="150"
align="left"><hr><br>
</image>
</br>
PERSONAL EXPENSE TRACKER
<div id="curve chart" style="width: 900px; height: 300px"></div>
<income> CURRENT INCOME </BR>RS 10,000</income>
<wallet>WALLET LIMIT</BR>RS 1,500
<balance>BALANCE</BR>RS1,000
</body>
</html>
```

TESTCASES:





USN 6: EMAIL ALERT: email.html

<!DOCTYPE html>

```
<html>
<head>
   <title>index</title>
</head>
<body>
  <style>
     @import
url("https://fonts.googleapis.com/css2?family=Sansita+Swashed:wght@600&display=swap");
body {
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 display: flex;
 justify-content: center;
 align-items: center;
 height: 100vh;
 background: linear-gradient(45deg, greenyellow, dodgerblue);
 font-family: "Sansita Swashed", cursive;
}
.center {
 position: relative;
 padding: 50px 50px;
 background: #fff;
 border-radius: 10px;
.center h1 {
 font-size: 2em;
 border-left: 5px solid dodgerblue;
 padding: 10px;
 color: #000;
 letter-spacing: 5px;
 margin-bottom: 60px;
 font-weight: bold;
 padding-left: 10px;
.center .inputbox {
 position: relative;
 width: 300px;
 height: 50px;
 margin-bottom: 50px;
.center .inputbox input {
 position: absolute;
 top: 0;
```

```
left: 0;
 width: 100%;
 border: 2px solid #000;
 outline: none;
 background: none;
 padding: 10px;
 border-radius: 10px;
 font-size: 1.2em;
.center .inputbox:last-child {
 margin-bottom: 0;
}
.center .inputbox span {
 position: absolute;
 top: 14px;
 left: 20px;
 font-size: 1em;
 transition: 0.6s;
 font-family: sans-serif;
.center .inputbox input:focus ~ span,
.center .inputbox input:valid ~ span {
 transform: translateX(-13px) translateY(-35px);
 font-size: 1em;
.center .inputbox [type="button"] {
 width: 50%;
 background: dodgerblue;
 color: #fff;
 border: #fff;
}
.center .inputbox:hover [type="button"] {
 background: linear-gradient(45deg, greenyellow, dodgerblue);
}
  </style>
<form action = "{{ url_for('verify') }}" method = "post">
  <div class="center">
     <h1>Please verify your mailed here!!</h1>
     <form>
      <div class="inputbox">
       <input type="text" required="required" name="email1">
       <span>Email</span>
      </div>
      <div class="inputbox">
```

```
<input type="submit" value="submit">
      </div>
     </form>
   </div>
</form>
</body>
</html>
Verify.html
<!DOCTYPE html>
<html>
<head>
   <title>OTP Verification</title>
</head>
 <body>
  <html>
<head>
 <meta charset="utf-8">
 <title>Stackfindover: Sign in</title>
 k rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
 <style>
  * {
 padding: 0;
 margin: 0;
 color: #1a1f36;
 box-sizing: border-box;
 word-wrap: break-word;
 font-family: -apple-system,BlinkMacSystemFont,Segoe UI,Roboto,Helvetica
Neue, Ubuntu, sans-serif;
}
body {
  min-height: 100%;
  background-color: #ffffff;
}
h1 {
  letter-spacing: -1px;
}
a {
 color: #5469d4;
 text-decoration: unset;
```

```
.login-root {
  background: #fff;
  display: flex;
  width: 100%;
  min-height: 100vh;
  overflow: hidden;
}
.loginbackground {
  min-height: 692px;
  position: fixed;
  bottom: 0;
  left: 0;
  right: 0;
  top: 0;
  z-index: 0;
  overflow: hidden;
}
.flex-flex {
  display: flex;
}
.align-center {
 align-items: center;
.center-center {
 align-items: center;
 justify-content: center;
.box-root {
  box-sizing: border-box;
}
.flex-direction--column {
  -ms-flex-direction: column;
  flex-direction: column;
.loginbackground-gridContainer {
  display: -ms-grid;
  display: grid;
  -ms-grid-columns: [start] 1fr [left-gutter] (86.6px)[16] [left-gutter] 1fr [end];
  grid-template-columns: [start] 1fr [left-gutter] repeat(16,86.6px) [left-gutter] 1fr [end];
  -ms-grid-rows: [top] 1fr [top-gutter] (64px)[8] [bottom-gutter] 1fr [bottom];
  grid-template-rows: [top] 1fr [top-gutter] repeat(8,64px) [bottom-gutter] 1fr [bottom];
  justify-content: center;
  margin: 0 -2%;
```

```
transform: rotate(-12deg) skew(-12deg);
}
.box-divider--light-all-2 {
  box-shadow: inset 0 0 0 2px #e3e8ee;
}
.box-background--blue {
  background-color: #5469d4;
}
.box-background--white {
 background-color: #ffffff;
.box-background--blue800 {
  background-color: #212d63;
.box-background--gray100 {
  background-color: #e3e8ee;
.box-background--cyan200 {
  background-color: #7fd3ed;
.padding-top--64 {
 padding-top: 64px;
.padding-top--24 {
 padding-top: 24px;
.padding-top--48 {
 padding-top: 48px;
.padding-bottom--24 {
 padding-bottom: 24px;
.padding-horizontal--48 {
 padding: 48px;
.padding-bottom--15 {
 padding-bottom: 15px;
.flex-justifyContent--center {
 -ms-flex-pack: center;
 justify-content: center;
```

```
.formbg {
  margin: 0px auto;
  width: 100%;
  max-width: 448px;
  background: white;
  border-radius: 4px;
  box-shadow: rgba(60, 66, 87, 0.12) 0px 7px 14px 0px, rgba(0, 0, 0, 0.12) 0px 3px 6px 0px;
}
span {
  display: block;
  font-size: 20px;
  line-height: 28px;
  color: #1a1f36;
}
label {
  margin-bottom: 10px;
}
.reset-pass a,label {
  font-size: 14px;
  font-weight: 600;
  display: block;
}
.reset-pass > a {
  text-align: right;
  margin-bottom: 10px;
}
.grid--50-50 {
  display: grid;
  grid-template-columns: 50% 50%;
  align-items: center;
}
.field input {
  font-size: 16px;
  line-height: 28px;
  padding: 8px 16px;
  width: 100%;
  min-height: 44px;
  border: unset;
  border-radius: 4px;
  outline-color: rgb(84 105 212 / 0.5);
  background-color: rgb(255, 255, 255);
  box-shadow: rgba(0, 0, 0, 0) 0px 0px 0px 0px,
```

```
rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(60, 66, 87, 0.16) 0px 0px 0px 1px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px;
}
input[type="submit"] {
  background-color: rgb(84, 105, 212);
  box-shadow: rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0.12) 0px 1px 1px 0px,
          rgb(84, 105, 212) 0px 0px 0px 1px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(0, 0, 0, 0) 0px 0px 0px 0px,
          rgba(60, 66, 87, 0.08) 0px 2px 5px 0px;
  color: #fff;
  font-weight: 600;
  cursor: pointer;
}
.field-checkbox input {
  width: 20px;
  height: 15px;
  margin-right: 5px;
  box-shadow: unset;
  min-height: unset;
}
.field-checkbox label {
  display: flex;
  align-items: center;
  margin: 0;
}
a.ssolink {
  display: block;
  text-align: center;
  font-weight: 600;
}
.footer-link span {
  font-size: 14px;
  text-align: center;
}
.listing a {
  color: #697386;
```

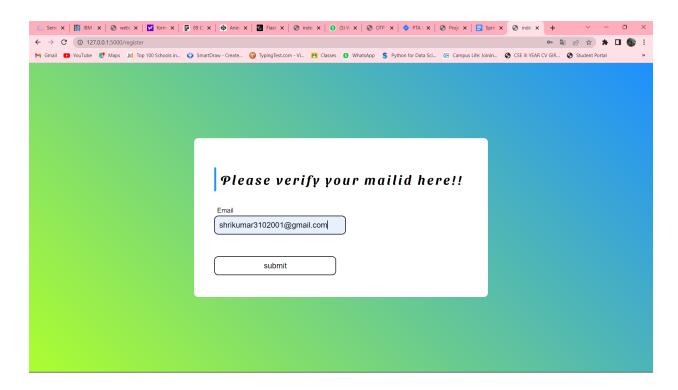
```
font-weight: 600;
  margin: 0 10px;
}
.animationRightLeft {
 animation: animationRightLeft 2s ease-in-out infinite;
}
.animationLeftRight {
 animation: animationLeftRight 2s ease-in-out infinite;
}
.tans3s {
 animation: animationLeftRight 3s ease-in-out infinite;
}
.tans4s {
 animation: animationLeftRight 4s ease-in-out infinite;
}
@keyframes animationLeftRight {
 0% {
  transform: translateX(0px);
 50% {
  transform: translateX(1000px);
 100% {
  transform: translateX(0px);
}
@keyframes animationRightLeft {
 0% {
  transform: translateX(0px);
 50% {
  transform: translateX(-1000px);
 }
 100% {
  transform: translateX(0px);
 }
 </style>
<form action = "{{ url_for('validate') }}" method="post">
 <div class="login-root">
  <h4> OTP has been sent to the email id. Please check the email for the confirmation.</h4>
```

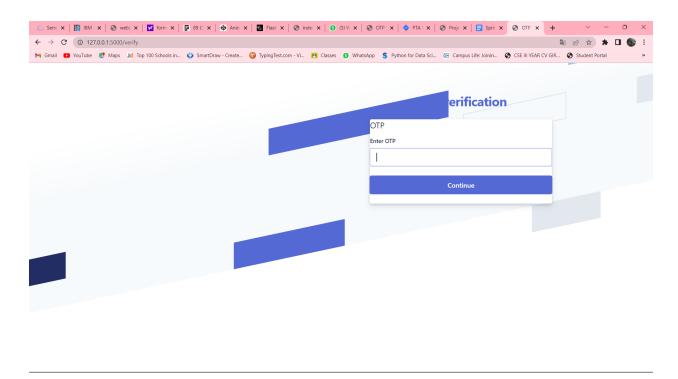
```
<div class="box-root flex-flex flex-direction--column" style="min-height: 100vh;flex-grow: 1;">
    <div class="loginbackground box-background--white padding-top--64">
     <div class="loginbackground-gridContainer">
      <div class="box-root flex-flex" style="grid-area: top / start / 8 / end;">
       <div class="box-root" style="background-image: linear-gradient(white 0%, rgb(247, 250,</p>
252) 33%); flex-grow: 1;">
       </div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 4 / 2 / auto / 5;">
       <div class="box-root box-divider--light-all-2 animationLeftRight tans3s" style="flex-grow:</pre>
1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 6 / start / auto / 2;">
       <div class="box-root box-background--blue800" style="flex-grow: 1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 7 / start / auto / 4;">
       <div class="box-root box-background--blue animationLeftRight" style="flex-grow:</pre>
1:"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 8 / 4 / auto / 6;">
       <div class="box-root box-background--gray100 animationLeftRight tans3s"</pre>
style="flex-grow: 1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 2 / 15 / auto / end;">
       <div class="box-root box-background--cyan200 animationRightLeft tans4s"</pre>
style="flex-grow: 1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 3 / 14 / auto / end;">
       <div class="box-root box-background--blue animationRightLeft" style="flex-grow:</pre>
1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 4 / 17 / auto / 20;">
       <div class="box-root box-background--gray100 animationRightLeft tans4s"</pre>
style="flex-grow: 1;"></div>
      </div>
      <div class="box-root flex-flex" style="grid-area: 5 / 14 / auto / 17;">
       <div class="box-root box-divider--light-all-2 animationRightLeft tans3s" style="flex-grow:</pre>
1:"></div>
      </div>
     </div>
   </div>
    <div class="box-root padding-top--24 flex-flex flex-direction--column" style="flex-grow: 1;</p>
z-index: 9:">
```

```
<div class="box-root padding-top--48 padding-bottom--24 flex-flex</pre>
flex-justifyContent--center">
      <h1><a href="http://blog.stackfindover.com/" rel="dofollow">OTP verification</a></h1>
     </div>
     <div class="formbg-outer">
      <div class="formbg">
       <span class="padding-bottom--15">OTP</span>
          <div class="field padding-bottom--24">
           <label for="otp">Enter OTP</label>
           <input type="text" name="otp">
          </div>
          <div class="field padding-bottom--24">
           <input type="submit" name="submit" value="Continue">
          </div>
        </form>
       </div>
      </div>
      </div>
     </div>
   </div>
  </div>
 </div>
</form>
</body>
```

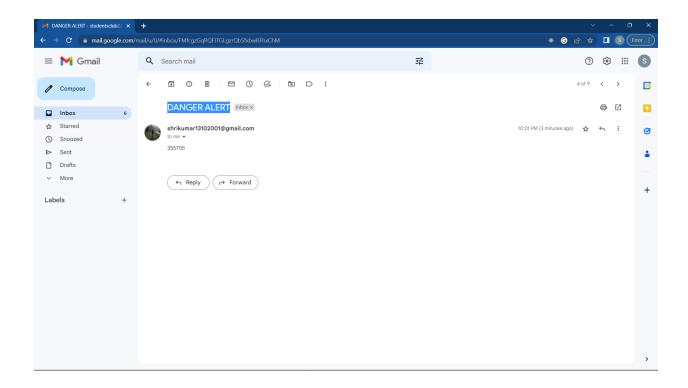
</html>

TESTCASES:



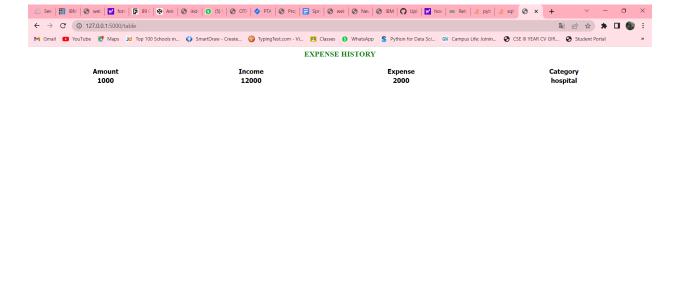


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