

PROJECT DEVELOPMENT PHASE

SPRINT 1

TEAM ID	PNT2022TMID43800
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION

CODE:

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__, template_folder='templates')
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;SS
LServerCertificate=DigiCertGlobalRootCA.crt;UID=mdb10607;PWD=a9XPvEapMZrX4Q4W","")
@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('design.html', msg = msg)
        else:
            msg = 'Incorrect username / password !'
            return render_template('login.html', msg = msg)
    @app.route('/logout')
    def logout():
        session.pop('loggedin', None)
        session.pop('id', None)
        session.pop('email', None)
        return redirect(url_for('login'))

@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = ""
    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 user WHERE email = ? "
stmt = ibm_db.prepare(conn,sql)
ibm_db.bind_param(stmt, 3, 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 account or not firstname or not email:
    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 !'
elif request.method == 'POST':
    msg = 'Please fill out the form !'
else:
    msg = 'Invalid'
return render_template('register.html', msg = msg)

if __name__ == '__main__':
    app.run(debug = True)

```

USN 1 and USN 2: **REGISTRATION:**

register.html

```

<html>
<head>
<link rel="stylesheet" href="static/reg.css">
<link href="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet"
id="bootstrap-css">
<script src="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

```

```

<script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<!------- Include the above in your HEAD tag ----->
<link href="//netdna.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css" rel="stylesheet"
id="bootstrap-css">
<script src="//netdna.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script src="//code.jquery.com/jquery-2.1.3.min.js"></script>
<style>
    body {
        background-image: url("static/reg.jpg");
        background-repeat: no-repeat;
        background-size: cover;
    }

</style>
</head>
<body>
<form action="{ { url_for('register') } }" method="post">
<!------- Include the above in your HEAD tag ----->
<div class="container" >
<form class="form-horizontal" role="form">
<h2>Registration</h2>
<div class="form-group">
<label for="firstname" class="col-sm-3 control-label" >First Name*</label>
<div class="col-sm-9">
<input type="text" id="firstname" name="firstname" placeholder="First Name" minlength="5"
required class="form-control" autofocus>
</div>
</div>
<div class="form-group">
<label for="lastname" class="col-sm-3 control-label">Last Name</label>
<div class="col-sm-9">
<input type="text" id="lastname" name="lastname" placeholder="Last Name"
class="form-control" autofocus>
</div>
</div>
<div class="form-group">
<label for="email" class="col-sm-3 control-label">Email* </label>
<div class="col-sm-9">
<input type="email" id="email" name="email" placeholder="Email" class="form-control" name=
"email" required>
</div>
</div>
<div class="form-group">
<label for="password" class="col-sm-3 control-label">Password*</label>
<div class="col-sm-9">
<input type="password" id="password" name="password" minlength="4"
requiredplaceholder="Password" class="form-control" >
</div>
</div>
<div class="form-group">
<label for="cpassword" class="col-sm-3 control-label">Confirm Password*</label>
<div class="col-sm-9">
<input type="password" id="cpassword" name="cpassword" placeholder="Password"
class="form-control" required>
</div>

```

```

</div>
<div class="form-group">
<label for="birthdate" class="col-sm-3 control-label">Date of Birth* </label>
<div class="col-sm-9">
<input type="date" id="birthdate" name="birthdate" class="form-control" required>
</div>
</div>
<div class="form-group">
<label for="phonenumber" class="col-sm-3 control-label">Phone number* </label>
<div class="col-sm-9">
<input type="text" id="phonenumber" name="phonenumber" pattern="[0-9]{10}"
required placeholder="Phone number" class="form-control">
<span class="help-block">Your phone number won't be disclosed anywhere </span>
</div>
</div>
<div class="form-group">
<label for="job" class="col-sm-3 control-label">Job* </label>
<div class="col-sm-9">
<input type="text" id="job" name="job" placeholder="Please write your job title"
class="form-control" required>
</div>
</div>
<div class="form-group">
<label for="income" class="col-sm-3 control-label">Income(in Rs)* </label>
<div class="col-sm-9">
<input type="text" id="income" name="income" placeholder="Please write your income per
month" class="form-control" min="0" required>
</div>
</div>
<div class="form-group">
<div class="col-sm-9 col-sm-offset-3">
<span class="help-block">*Required fields</span>
</div>
</div>
<button type="submit" class="btn btn-primary btn-block">Register</button>
</div>
</form> <!-- /form -->
</div> <!-- ./container -->
</form>
</body>
</html>

```

reg.css

```

*{
margin: 0;
padding: 0;
box-sizing: border-box;
}

.container{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%,-50%);
width: 700px;

```

```
padding: 30px 30px;
border-radius: 10px;
box-shadow: 7px 7px 60px rgb(236, 228, 228);}
h2{
font-size: 25px;
font-weight: 600;
margin-bottom: 20px;
color: rgb(49, 47, 47);
}
.form-group input{
width: 400px;
margin-top: 15px;
background: transparent;
outline: none;
font-size: 12px;
border-radius: 30px;
box-shadow: 0 0 4px #fff;
transition: box-shadow 0.5s ease;
}
```

USN 2:

LOGIN:

login.html

```
<!DOCTYPE html>
<html lang="en" >
<head>
<style>
body {
background-image: linear-gradient(135deg, #a5eea3 10%, #53e453 100%);
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
font-family: "Open Sans", sans-serif;
color: #333333;
}
.box-form {
margin: 0 auto;
width: 80%;
height: 400px;
background: #FFFFFF;
border-radius: 10px;
overflow: hidden;
display: flex;
flex: 1 1 100%;
align-items: stretch;
justify-content: space-between;
box-shadow: 0 0 20px 6px #090b6f85;
}
@media (max-width: 750px) {
.box-form {
flex-flow: wrap;
text-align: center;
align-content: center;
align-items: center;
}
```

```

}
}
.box-form div {
height: auto;
}
.box-form
.left {
color: #FFFFFF;
background-size: cover;
background-repeat: no-repeat;
background: url("https://d2gg9evh47fn9z.cloudfront.net/800px_COLOURBOX2109992.jpg");
overflow: hidden;
}
.box-form
.left
.overlay {
padding: 30px;
width: 500px;
height: 400px;
background: #c7c8d8ad;
overflow: hidden;
box-sizing: border-box;
}
.box-form
.left
.overlay h1 {
font-size: 5vmax;
line-height: 1;
font-weight: 900;
margin-top: 40px;
margin-bottom: 20px;
color: #4c4c4c;
}
.box-form
.left
.overlay p
{
color: #4c4c4c;
}
.box-form
.left
.overlay span p
{
margin-top: 30px;
font-weight: 900;
color: #4bb36d;
}
.box-form
.left
.overlay span a
{
background: #3b5998;
color: #FFFFFF;
margin-top: 10px;
padding: 14px 50px;
}

```

```
border-radius: 100px;
display: inline-block;
box-shadow: 0 3px 6px 1px #042d4657;
}
.box-form
.left
.overlay span a:last-child {
background: #1dff96;
margin-left: 30px;
}
.box-form
.right {
padding: 40px;
overflow: hidden;
background-image: linear-gradient(135deg, #4e957d 40%, #c0fa75 100%);
}
@media (max-width: 980px) {
.box-form .right {
width: 300px;
height: auto;
}
}
.box-form
.right h5 {
font-size: 3vmax;
line-height: 0;
}
.box-form
.right p
{
font-size: 14px;
color: #B0B3B9;
}
.box-form
.right
.inputs {
overflow: hidden;
}
.box-form
.right input {
width: 100%;
padding: 8px;
margin-top: 20px;
font-size: 14px;
border: none;
outline: none;
border-bottom: 2px solid #B0B3B9;
}
.box-form .right button {
color: #fff;
font-size: 16px;
padding: 12px 35px;
border-radius: 50px;
display: inline-block;
border: 0;
```

```

outline: 0;
box-shadow: 0px 4px 20px 0px #c6ff5c;
background-image: linear-gradient(135deg, #a1ffa6 10%, #75fa9d 100%);
}
label {
display: block;
position: relative;
margin-left: 30px;
}
label::before {
content: '\f00c';
position: absolute;
font-family: FontAwesome;
background: transparent;
border: 3px solid #70F570;
border-radius: 4px;
color: transparent;
left: -30px;
transition: all 0.2s linear;
}
label:hover::before {
font-family: FontAwesome;
content: '\f00c';
color: #fff;
cursor: pointer;
background: #70F570;
}
label:hover::before .text-checkbox {
background: #70F570;
}
label span.text-checkbox {
display: inline-block;
height: auto;
position: relative;
cursor: pointer;
transition: all 0.2s linear;
}
label input[type="checkbox"] {
display: none;
}
</style>
<meta charset="UTF-8">
<title>Login Page</title>
<link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
<link href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
rel="stylesheet"
integrity="sha384-wvfXpqpZZVQGK6TAh5PVIGfQNHSoD2xbE+QkPxCafINEevoEH3Sl0sibV
cOQVnN" crossorigin="anonymous"><link rel="stylesheet" href="./style.css">
</head>
<body>
<form action="{ { url_for('login') } }" method="post">
<!-- partial:index.partial.html -->
<div class="box-form">
<div class="left">
<div class="overlay">

```



```

<h1>Welcome!</h1>
<p>Your budget is a shortcut to healthy finances.<br>Learn how to
control your money <br>instead of letting money control you...</p>
</div>
</div>
<div class="right">
<h5>Login</h5>
<p>Don't have an account? <a href="{{ url_for('register') }}">Sign Up</a></p>
<div class="inputs">
<input type="text" name="email" placeholder="Email">
<br>
<input type="password" name="password" placeholder="Password">
</div>
<br>
<button>Login</button>
</div>
</div>
<!-- partial -->
</form>
</body>
</html>

```

USN 3: WALLET PAGE

design.html

```

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="external.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:#daebeef;
}
.dropdown-content {
display: none;
position: absolute;
background-image: linear-gradient(to right, #8e2de2, #4a00e0);
min-width: 160px;
box-shadow: #daebeef;
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:#daebeef;
}

```

```

}
.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>
<form action="{{ url_for('login') }}" method="post">
<div class="dropdown">

```

```

<button class="dropbtn" onclick="myFunction()">Menu
<i class="fa fa-caret-down"></i>
</button>
<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="#expense"><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>
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>
<img>
<hr><br>
</img>
</br>
<table width="85%" height="50%" align="right">
<tr><td align="center">PERSONAL EXPENSE TRACKER</td></tr>
</table>
</br><br><br><br><br><br><br><br>
<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</wallet>
<balance>BALANCE</BR>RS1,000</balance>
</body>
</html>

```

index.html

```

<!DOCTYPE html>
<html>

```

```

<head>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYal1GyVh/UjpbCx/TYkiZhlZB6+fzT"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvZlHgTPOOmMi
466C8" crossorigin="anonymous"></script>
<link href="https://fonts.googleapis.com/css2?family=Oswald&display=swap"
rel="stylesheet">
<link href="https://fonts.googleapis.com/css2?family=Lato&display=swap" rel="stylesheet">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>
<title>webpage</title>
</head>
<body>
<center><font face="Monotype Corsiva" color="#8ce26a" size="6"><br>PERSONAL EXPENSE
TRACKER APPLICATION</font></center>
<style>
*{
margin-top: 0%;
margin-left: 0%;
box-sizing: border-box;
font-family: 'Lato', sans-serif;
font-family: 'Oswald', sans-serif;
}
body {
background-image: url("static/home.jpg");
background-repeat: no-repeat;
background-size: cover;
}
.budget{
position: absolute;
right: 0;
bottom: 0;
z-index: -1;
margin-right: 0;
margin-top: 0;
margin-left: 0;
min-width: 100%;
min-height: 100%;
background-size: cover;
}
.wrapper{
position: fixed;
top: 0;
left: 0;
height: 100%;
width: 100%;
background: #8ce26a;
clip-path: circle(25px at calc(100% - 45px) 45px);
transition: all 0.3s ease-in-out;
}
#active:checked ~ .wrapper{
clip-path: circle(75%);
}

```

```
.menu-btn{
position: absolute;
z-index: 2;
right: 20px;
/* left: 20px; */
top: 20px;
height: 50px;
width: 50px;
text-align: center;
line-height: 50px;
border-radius: 50%;
font-size: 20px;
color: #fff;
cursor: pointer;
background: #8ae087;
transition: all 0.3s ease-in-out;
}
#active:checked ~ .menu-btn{
color: rgb(12, 12, 12);
}
#active:checked ~ .menu-btn i:before{
content: "\f00d";
}
.wrapper ul{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
list-style: none;
text-align: center;
}
.wrapper ul li{
margin: 15px 0;
}
.wrapper ul li a{
color: none;
text-decoration: none;
font-size: 30px;
font-weight: 500;
padding: 5px 30px;
color: #fff;
border-radius: 50px;
background: #000;
position: relative;
line-height: 50px;
transition: all 0.3s ease;
}
.wrapper ul li a:after{
position: absolute;
content: "";
background: #fff;
background: linear-gradient(#14ffe9, #ffeb3b, #ff00e0);
/*background: linear-gradient(375deg, #1cc7d0, #2ede98);*/
width: 104%;
height: 110%;
```

```

left: -2%;
top: -5%;
border-radius: 50px;
transform: scaleY(0);
z-index: -1;
animation: rotate 1.5s linear infinite;
transition: transform 0.3s ease;
}
.wrapper ul li a:hover:after{
transform: scaleY(1);
}
.wrapper ul li a:hover{
color: #fff;
}
input[type="checkbox"]{
display: none;
}
.content{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
z-index: -1;
text-align: center;
width: 100%;
color: #202020;
}
.content .title{
font-size: 40px;
font-weight: 700;
}
.content p{
font-size: 35px;
font-weight: 600;
}
@keyframes rotate {
0%{
filter: hue-rotate(0deg);
}
100%{
filter: hue-rotate(360deg);
}
}
</style>
<input type="checkbox" id="active">
<label for="active" class="menu-btn"><i class="fas fa-bars"></i></label>
<div class="wrapper">
<ul>
<li><a href="/index">Home</a></li>
<li><a href="/register">Register</a></li>
<li><a href="/login">Login</a></li>
<li><a href="">Wallet</a></li>
<li><a href="#">Feedback</a></li>
</ul>
</div>

```

</body></html>

TESTCASES:

REGISTRATION:

Registration

First Name*

Last Name

Email*

Password*

Confirm Password*

Date of Birth*

Phone number*

Your phone number won't be disclosed anywhere

Job*

Income(In Rs)*

*Required fields

Register

LOGIN:

User can login by giving username and password

Welcome!

Your budget is a shortcut to healthy finances.
Learn how to control your money
Instead of letting money control you...

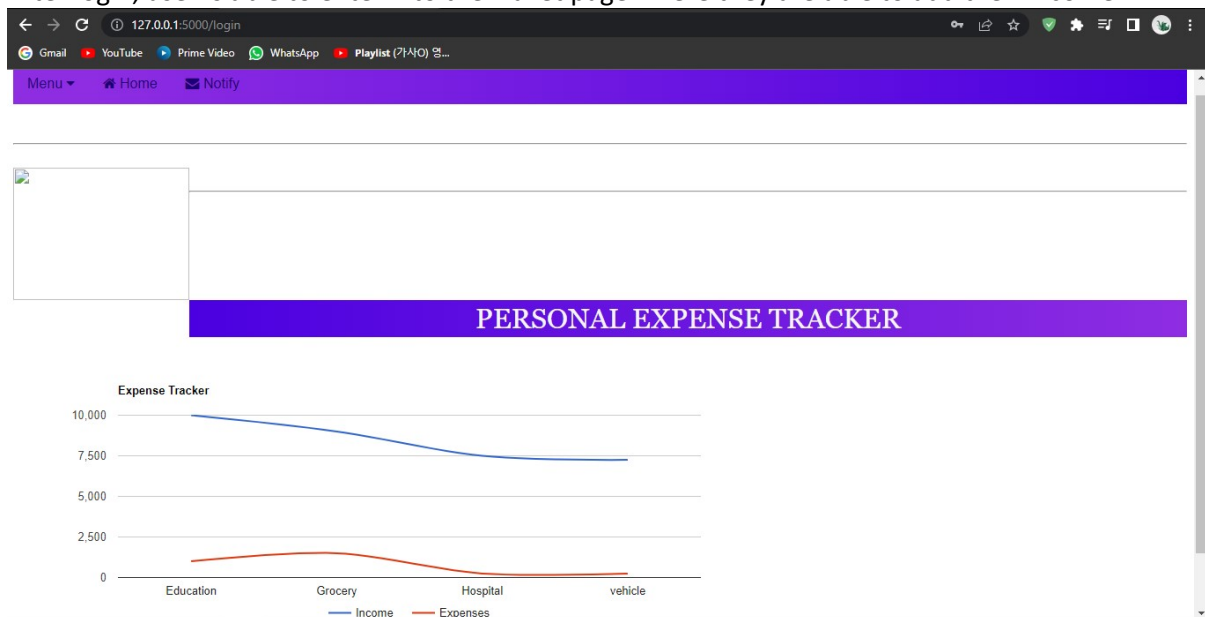
Login

Don't have an account? [Sign Up](#)

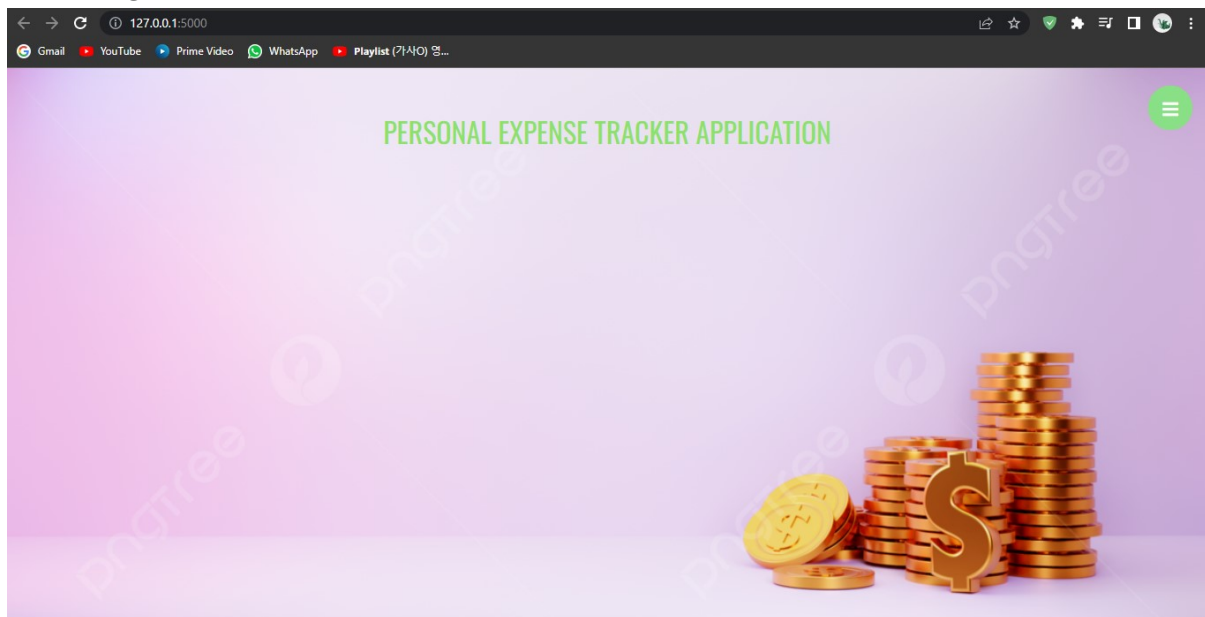
Login

WALLET PAGE:

After login, user is able to enter into the wallet page where they are able to add their income



INDEX PAGE:



DATABASE FOR REGISTRATION:

The screenshot shows a database management tool interface. On the left, there is a sidebar with icons for SQL, Schemas, and Tables. The main area is divided into two panels. The left panel, titled "Tables", shows a list of tables: REGISTER and USER, both in the schema MDB10607. The right panel, titled "Table definition", shows the structure of the REGISTER table. It has five columns: FIRSTNAME (CHAR, 20, nullable), LASTNAME (CHAR, 10, nullable), EMAIL (VARCHAR, 32, nullable), PASSWORD (CHAR, 10, nullable), and a primary key column (not explicitly named, but indicated by a key icon). The "View data" button is visible at the bottom of the right panel.

Name	Data type	Nullable	Length	Scale
FIRSTNAME	CHAR	Y	20	0
LASTNAME	CHAR	Y	10	0
EMAIL	VARCHAR	Y	32	0
PASSWORD	CHAR	Y	10	0