Платформа за онлайн банкиране

Курсов проект по УЕБ програмиране

(3ти курс)

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(подпис)

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Цел на проекта:

Онлайн банкова платформа, позволяваща на потрабителите да създават банкови акаунти в една или двете банки с които работи платформата, използвайки един юнифициран онлайн акаунт.

Потребителите имат възможност да внасят и теглят валута, и да изпращат средства от една сметка в друга, независимо в коя от двете банки е сметката на наредителя или получателя.

Използване на програмата

от потребител

Начална Страница:

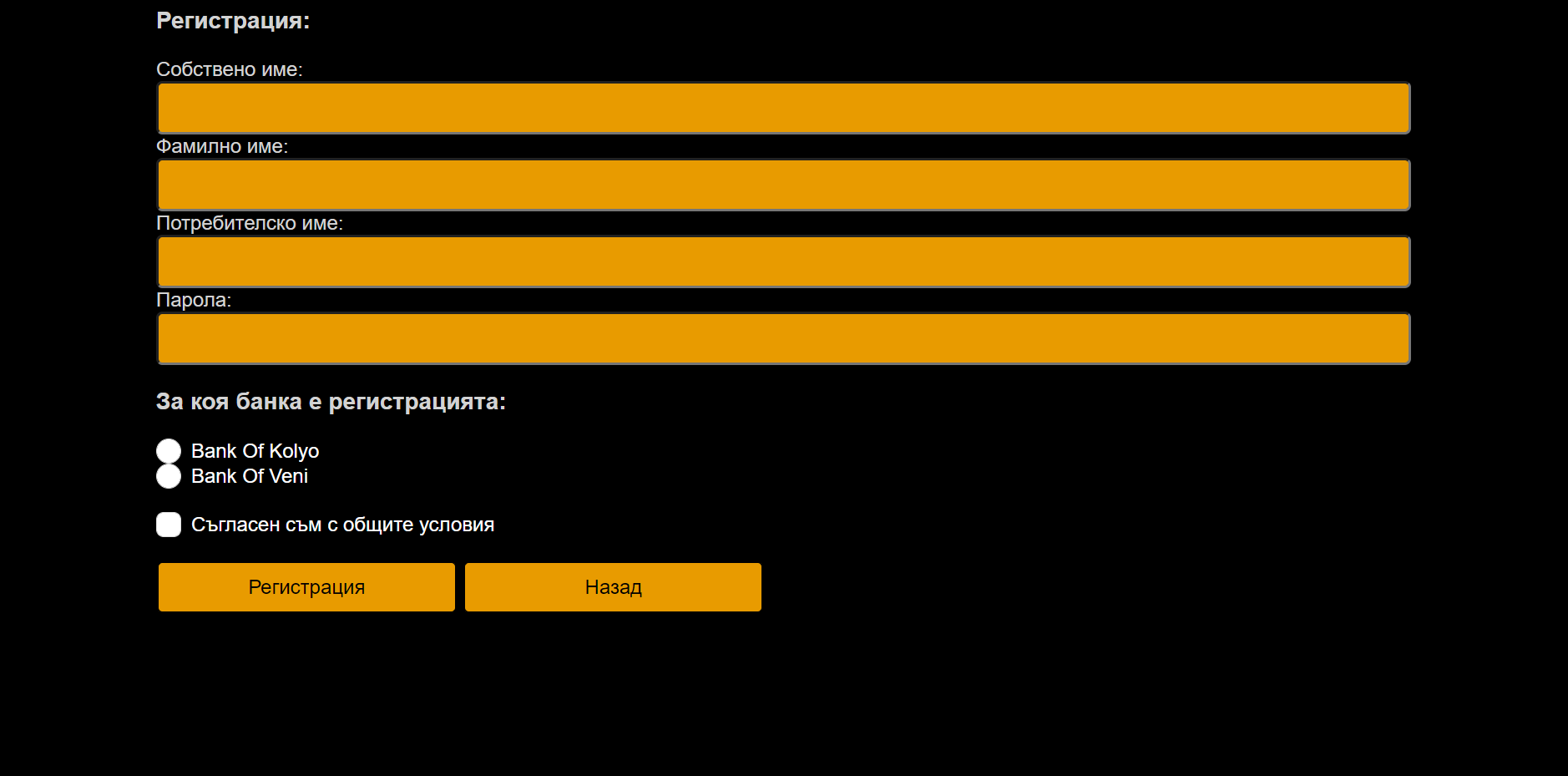
Потребителите, при влизане в платформата, попадат на началната страница, където имат избор да се впишат във вече съществуващ онлайн акаунт, или да се регистрират в платформата.

Graphical user interface, text, application

Description automatically generated

Регистрация:

При регистрация, потребителите трябва да съседат собствено име, фамилно име, потребителско име и парола. Те също трябва да изберат за коя банка правят своята регистрация, използвайки радио бутоните, както и да отбележат че са съгласни с общите условия за използване на приложението.



Вход:

При вход, потребителите вече трябва да имат регистриран акаунт в платформата, в банката, където е акаунта който искат да достъпят. При вход се въвежда единствено потребителско име и парола, и от радио бутоните се избира в коя банка е акаунта в който искат да влезнат.

Graphical user interface

Description automatically generated

Потребителски интерфейс:

След регистрация/вход, потребителят попада на началната страница на потребителският интерфейс. След регистрация, балансът винаги е 0 лева, но за да симулираме внасянето на пари сме добавили полета и бутони за внасяне и теглене на пари.

Потребителите също имат възможност да изберат да направят транзакция, да видят историята на транзакциите или да излезнат от своя профил.

Graphical user interface, text

Description automatically generated

Извършване на транзакции:

За да може един потребител да извърши транзакция, той трябва да знае данните на потребителят на който би искал да изпрати средства. Получателят може да бъде от същата или от друга банка.

Нужните данни са:

* Собствено име на получател
* Фамилно име на получател
* IBAN на получател
* Сумата която потребителят иска да изпрати(Равна или по-малка от баланса на потребителя)
* Основание за транзакцията

Потребителят също може да се върне и към основната страница на потребителският интерфейс без да извърши транзакция.

A picture containing graphical user interface

Description automatically generated

История на празнакциите:

Ако потребителят избере да види историята на своите транзакции, той трябва да избере времеви диапазон за който да бъдат показани транзакциите.

Graphical user interface, application

Description automatically generated

След избор на времеви диапазон, на екрана се извеждат всички транзакции за този диапазон.

Graphical user interface

Description automatically generated

Софтуерна документация

Използвани технологии:

-MySQL

-PHP

-HTML5

-CSS

-JavaScript

-Git

-GitHub

-FTP (FileZilla)

-Oracle Data Modeler(За документация)

Структура на база от данни:

Diagram

Description automatically generated

Файл за работа с база от данни (DBFunc.PHP):

INSERT функции:

function Insert1($TABLE,$COLUMN,$VALUE){

//database credentials

include("Connect.php");

//tell the database what to insert and into which table

$sql = "INSERT INTO $TABLE($COLUMN) VALUES('$VALUE')";

//On a successfull insert

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

}

//On a failed insert

else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

Disconnect($conn);

}

////////////////////////////////////////////////////////////////////

function Insert2($TABLE,$COLUMN1,$COLUMN2,$VALUE1,$VALUE2){

//database credentials

include("Connect.php");

$sql = "INSERT INTO $TABLE($COLUMN1,$COLUMN2) VALUES('$VALUE1','$VALUE2')";

//On a successfull insert

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

}

//On a failed insert

else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

Disconnect($conn);

}

//////////////////////////////////////////////////////////////////////

function Insert3($TABLE,$COLUMN1,$COLUMN2,$COLUMN3,$VALUE1,$VALUE2,$VALUE3){

//database credentials

include("Connect.php");

$sql = "INSERT INTO $TABLE($COLUMN1,$COLUMN2,$COLUMN3) VALUES('$VALUE1','$VALUE2','$VALUE3')";

//On a successfull insert

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

}

//On a failed insert

else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

Disconnect($conn);

}

////////////////////////////////////////////////////////////////////////

function Insert4($TABLE,$COLUMN1,$COLUMN2,$COLUMN3,$COLUMN4,$VALUE1,$VALUE2,$VALUE3,$VALUE4){

//database credentials

include("Connect.php");

$sql = "INSERT INTO $TABLE ($COLUMN1,$COLUMN2,$COLUMN3,$COLUMN4) VALUES ('$VALUE1','$VALUE2','$VALUE3','$VALUE4')";

//On a successfull insert

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

}

//On a failed insert

else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

Disconnect($conn);

}

////////////////////////////////////////////////////////////////////////

function Insert5($TABLE,$COLUMN1,$COLUMN2,$COLUMN3,$COLUMN4,$COLUMN5,$VALUE1,$VALUE2,$VALUE3,$VALUE4,$VALUE5){

//database credentials

include("Connect.php");

$sql = "INSERT INTO $TABLE ($COLUMN1,$COLUMN2,$COLUMN3,$COLUMN4, $COLUMN5) VALUES ('$VALUE1','$VALUE2','$VALUE3','$VALUE4','$VALUE5')";

//On a failed insert

if ($conn->query($sql) === FALSE) {

echo "Error: " . $sql . "<br>" . $conn->error;

}

Disconnect($conn);

}

CREDENTIALS:

//Returns true if the username doesn't exist in the database

function CheckUsernameAvailability($Username,$bankNumber){

//database credentials

include("Connect.php");

//Ask the database for the entry with that username

$bank=getBank($bankNumber);

$query = "SELECT \* FROM $bank WHERE Username='$Username';";

if(mysqli\_query($conn, $query)){

//Get what the database has answered

$result = $conn->query($query);

//If there is an entry with that username,

//disconnect and return false

if ($result->num\_rows > 0)

{

Disconnect($conn);

return 0;

}

}

//If the username is not taken yet,

//disconnect and return true

Disconnect($conn);

return 1;

}

//////////////////////////////////////////////////////////////////////////

//Checks if the user password is correct ,and returns true(1) if correct

function CheckPassword($Username,$Password){

//database credentials

include("Connect.php");

//Ask the database for the entry with these username and password

$query = "SELECT \* FROM Credentials WHERE Username='$Username' AND Password='$Password';";

if(mysqli\_query($conn, $query)){

//Get what the database has answered

$result = $conn->query($query);

//If there is and entry with these username and password,

//disconnect from the database and return true(1)

if ($result->num\_rows > 0)

{

Disconnect($conn);

return 1;

}

}

//if there isn't a user like this or the password doesn't match,

//disconnect and return false(0)

Disconnect($conn);

return 0;

}

//Checks if the user has the correct bank selected, and returns true(1) if corret

function CheckBank($Username, $bank){

//database credentials

include("Connect.php");

//Asks the database for an entry in the bank with this username

$query = "SELECT Username FROM $bank WHERE Username='$Username';";

if(mysqli\_query($conn, $query)){

//Get what the database has answered

$result = $conn->query($query);

//If there is an entry in the bank with this username,

//disconnect from the database and return true(1)

if ($result->num\_rows > 0){

Disconnect($conn);

return 1;

}

}

//if there isn't a username in this bank

//disconnect and return false(0)

Disconnect($conn);

return 0;

}

FETCH:

//"Username", $Username, $bank, "IBAN");

function fetchValue($checkCol, $checkValue, $table, $value){

//database credentials

include("Connect.php");

//Select the Value from the appropriate bank

$query = "SELECT $value FROM $table WHERE $checkCol='$checkValue';";

//Get what the database has answered

$result = $conn->query($query);

$row = $result->fetch\_assoc();

$fetchedValue = $row[$value];

Disconnect($conn);

return $fetchedValue;

}

function bankName($iban){

if (strpos($iban, "BOKB") !== false) return "BankOfKolyo";

if (strpos($iban, "BOVB") !== false) return "BankOfVeni";

return "wrong";

}

TRANSACTION функции:

function sendFunds($senderIBAN, $recepientIBAN, $amount, $reason, $currency){

///Check if user submitted his own IBAN

if ($senderIBAN == $recepientIBAN) return "<script>alert('Грешка: Не можеш да си пращаш пари');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

//Check if amount is 0 or negative

if ($amount <= 0) return "<script>alert('Грешка: Трябва да пратиш положителна сума');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

$recepientBank = bankName($recepientIBAN);

//Check if the IBAN exists in the written names

if ($recepientBank == "wrong") return "<script>alert('Грешка: Не съществува такъв IBAN');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

include("Connect.php");

$query = "SELECT \* FROM $recepientBank WHERE IBAN='$recepientIBAN';";

if(mysqli\_query($conn, $query)){

//Get what the database has answered

$result = $conn->query($query);

//If there isn't an entry with this IBAN,

//disconnect from the database and return

if ($result->num\_rows <= 0)

{

Disconnect($conn);

return "<script>alert('Грешка: Не съществува такъв IBAN');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

}

//Check if Sender has enough money

$senderBank = bankName($senderIBAN);

$senderBal = fetchValue("IBAN", $senderIBAN, $senderBank, "Balance");

if($senderBal < $amount) return "<script>alert('Грешка: Недостатъчни средства');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

//Update sender balance

$senderBal -= $amount;

$sql = "UPDATE $senderBank SET Balance=$senderBal WHERE IBAN='$senderIBAN';";

$conn->query($sql);

//Update recepient balance

$recepientBal = fetchValue("IBAN", $recepientIBAN, $recepientBank, "Balance");

$recepientBal += $amount;

$sql = "UPDATE $recepientBank SET Balance=$recepientBal WHERE IBAN='$recepientIBAN';";

$conn->query($sql);

Disconnect($conn);

Insert5("Transactions", "TransactionDate", "SenderIBAN", "RecipientIBAN", "Amount", "Note", date('y-m-d-H:i:s'), $senderIBAN, $recepientIBAN, $amount, $reason);

return "<script>alert('Успешно изпрати $amount $currency');location='sendFundsInterface.php?iban=$senderIBAN';</script>";

}

}

function transactionHistory($IBAN, $StartDate, $EndDate){

include("Connect.php");

$StartDate = date("Ymd", strtotime($StartDate));

$EndDate = date("Ymd", strtotime($EndDate . ' +1 day'));

//Sent funds query

$query = "SELECT TransactionDate, SenderIBAN, RecipientIBAN, Amount, Note FROM Transactions WHERE (SenderIBAN='$IBAN' OR RecipientIBAN='$IBAN') AND (TransactionDate >= '$StartDate' AND TransactionDate <= '$EndDate') ORDER BY TransactionDate DESC;";

if(mysqli\_query($conn, $query)){

//Get what the database answered

$result = $conn->query($query);

return $result;

}

}

Интерфейс за вход (login.php):

<?php

include("DBFunc.php");

?>

<body>

<form method="post" action="log.php" name="userForm">

<h3>Вход:</h3>

<label for="username">Потребителско Име:</label><br>

<input type="text" id="username" name="username" required><br>

<label for="password">Парола:</label><br>

<input type="password" id="password" name="password" required><br>

<input type="radio" id="bankVeni" name="bank" value="BankOfVeni" required>

<label for="bankVeni">Bank of Veni</label><br>

<input type="radio" id="bankKolyo" name="bank" value="BankOfKolyo" required>

<label for="bankKolyo">Bank of Kolyo</label><br>

<form>

<p><input type="submit" value="Вход"><in><a href="landing.php"><input type="button" value="Назад"></input></p>

</form>

</body>

<script type="text/javascript">

////////////////////////////

// //

// GET URL PARAMETERS //

// //

////////////////////////////

function getUrlParams() {

type:"module";

var paramMap = {};

if (location.search.length == 0) {

return paramMap;

}

var parts = location.search.substring(1).split("&");

for (var i = 0; i < parts.length; i ++) {

var component = parts[i].split("=");

paramMap [decodeURIComponent(component[0])] = decodeURIComponent(component[1]);

}

return paramMap;

}

var params = getUrlParams();

//////////////////////////////

// //

// PASTE URL PARAMETERS //

// //

//////////////////////////////

if(!(params.username == null)){

document.getElementById('username').value = params.username;

}

</script>

BACK-END за вход(log.php):

<?php

include("DBFunc.php");

//Get the user input

$Username = $\_POST['username'];

$password = $\_POST['password'];

$bank = $\_POST['bank'];

$bankNumber=bankNumber($bank);

//This function returns true if the account doesn't exist

$NOT\_accountExists = CheckUsernameAvailability($Username,$bankNumber);

//This returns true if the password matches

$CorrectPassword = CheckPassword($Username,$password);

//This return true if the bank matches

$CorrectBank = CheckBank($Username, $bank);

//if the passwords and username match the database, show an allert and redirect the page

if($NOT\_accountExists == 0 AND $CorrectPassword == 1 AND $CorrectBank == 1){

$iban = fetchValue("Username", $Username, $bank, "IBAN");

echo "<script>alert('Welcome, $Username');location='interface.php?iban=$iban';</script>";

exit();

}

//if the credentials do not match, alert the person and send them back to the login page to try again

echo "<script>alert('Invalid Login Details! Please Try Again!');location='Login.php?username=$Username';</script>";

exit();

?>

Интерфейс за регистрация(Register.php):

<?php

include("DBFunc.php");

?>

<form method="post" action="reg.php" name="userForm">

<h3>Регистрация:</h3>

<label for="fname" value="">Собствено име:</label><br>

<input type="text" id="fname" name="fname" ><br>

<label for="lname">Фамилно име:</label><br>

<input type="text" id="lname" name="lname"><br>

<label for="username">Потребителско име:</label><br>

<input type="text" id="username" name="username" required><br>

<label for="password">Парола:</label><br>

<input type="password" id="password" name="password" required><br>

<h3>За коя банка е регистрацията:</h3>

<input type="radio" id="BankOfKolyo" name="bankName" value="BankOfKolyo" required>

<label for="BankOfKolyo">Bank Of Kolyo</label><br>

<input type="radio" id="BankOfVeni" name="bankName" value="BankOfVeni">

<label for="BankOfVeni">Bank Of Veni</label><br>

<br>

<form>

<input type="checkbox" id="ToS" name="ToS" required>

<label for="ToS">Съгласен съм с общите условия</label><br><br>

<input type="submit" value="Регистрация">

<a href="landing.php"><input type="button" value="Назад"></input></a>

</form>

<br><br>

<script type="text/javascript">

////////////////////////////

// //

// GET URL PARAMETERS //

// //

////////////////////////////

function getUrlParams() {

var paramMap = {};

if (location.search.length == 0) {

return paramMap;

}

var parts = location.search.substring(1).split("&");

for (var i = 0; i < parts.length; i ++) {

var component = parts[i].split("=");

paramMap [decodeURIComponent(component[0])] = decodeURIComponent(component[1]);

}

return paramMap;

}

var params = getUrlParams();

console.log(params.username);

//////////////////////////////

// //

// PASTE URL PARAMETERS //

// //

//////////////////////////////

if(!(params.username == null)){

document.getElementById('username').value = params.username;

}

if(!(params.fname == null)){

document.getElementById('fname').value = params.fname;

}

if(!(params.lname == null)){

document.getElementById('lname').value = params.lname;

}

if(params.bankName == "BankOfKolyo"){

document.getElementById('BankOfKolyo').checked = true;

document.getElementById('BankOfVeni').checked = false;

}

if(params.bankName == "BankOfVeni"){

document.getElementById('BankOfVeni').checked = true;

document.getElementById('BankOfKolyo').checked = false;

}

console.table("url params:",params);

</script>

BACK\_END за регистрация(reg.php):

<?php

include("DBFunc.php");

include("Generator.php");

//Get the user input

$fname = $\_POST['fname'];

$lname = $\_POST['lname'];

$Username = $\_POST['username'];

$password = $\_POST['password'];

$bank = $\_POST['bankName'];

//Generate an IBAN in case the registration is successfull

$IBANGen = GenerateIban($bank);

$IBAN = $IBANGen;

//This function returns true(1) if the username doesn't exist;

$bankNumber=bankNumber($bank);

$UsernameAvailability = CheckUsernameAvailability($Username,$bankNumber);

//if the username doesn't exist, inser a user with the credentials entered

if( $UsernameAvailability== 1){

Insert5($bank,"firstname","lastname","Balance","IBAN","Username",$fname,$lname,"0",$IBAN,$Username);

Insert2("Credentials","username","password",$Username,$password);

header("Location: interface.php?iban=$IBAN");

exit();

}

//if the username does exist, alert the user and redirect him to the registration page

else{

echo "<script>alert('Username Already Taken! Please Try Again!');location='Register.php?fname=$fname&lname=$lname&username=$Username&bankName=$bank';</script>";

exit();

}

?>

Основен потребителски интерфейс на уеб приложението (interface.php):

<!DOCTYPE html>

<html>

<body>

<?php

include("InterfaceVariables.php");

echo "

<h1> Добре дошли в приложението на $bankName, $firstname $lastname!</h1>

<p> Баланс: $bal $currency </p>";

?>

<table>

<tr>

<td colspan=2><a href='<?php echo "transactionHistoryInterface.php?iban=$iban";?>'><button class='interfaceDouble'>История на Транзакциите</button></a></td>

</tr>

<tr>

<td colspan=2><a href='<?php echo "sendFundsInterface.php?iban=$iban";?>'><button class='interfaceDouble'>Направи Транзакция</button></a></td>

</tr>

<form method='get' action='personalFunds.php'>

<tr>

<td><input type='submit' value='Внеси пари' class='interfaceDouble'></td>

<td><input type='text' name='addedFunds' class='interfaceDouble'></td>

</tr>

<tr>

<td><input type='submit' value='Изтегли пари' class='interfaceDouble'></td>

<td><input type='text' name='removedFunds' class='interfaceDouble'></td>

</tr>

<input type='hidden' name='iban' value='<?php echo $iban;?>'>

</form>

</table>

<br><a href='landing.php'><button >Излез</button></a>

</body>

</html>

BACK\_END на основният потребителски интерфейс (interfaceVariable.php):

<?php

include("Connect.php");

include("DBFunc.php");

$url= $\_SERVER['REQUEST\_URI'];

$pos = strpos($url, "iban=") + 5;

$iban = substr($url, $pos);

if (strpos($iban, "BOKB") !== false) { $bankName = "Bank of Kolyo"; $bankNameSql = "BankOfKolyo"; }

if (strpos($iban, "BOVB") !== false) { $bankName = "Bank of Veni"; $bankNameSql = "BankOfVeni"; }

$sql = "SELECT \* FROM $bankNameSql WHERE IBAN='$iban'";

$result = $conn->query($sql);

$row = $result->fetch\_assoc();

$firstname = $row["firstname"];

$lastname = $row["lastname"];

$bal = $row["Balance"];

$currency = "лв.";

Disconnect($conn);

?>

Интерфейс за изпращане на валута (sendFundsInterface.php):

<?php

include "InterfaceVariables.php";

echo "<p> Баланс: $bal $currency </p>";

?>

Моля въведете информацията на получателя и сумата:

<form method="get" action="sendFunds.php">

<table style="margin-top: 1rem;">

<tr><td>Собствено име(получател):</td><td><input type="text" name="recepientFirstName" required></td>

<tr><td>Фамилно име(получател):</td><td><input type="text" name="recepientLastName" class='sendFunds' required></td>

<tr><td>IBAN:</td><td><input type="text" class="sendFunds" name="recepientIBAN" required></td>

<tr><td>Сума:</td><td><input type="text" class="sendFunds" name="recepientAmount" required></td>

<tr><td>Основание:</td><td><input type="text" class="sendFunds" name="reason" required></td>

<tr><td colspan=2><input type="submit" class="sendFunds" name="submit" value="Изпрати" style="width:100%;"></td>

</table>

<input type="hidden" name="iban" value="<?php echo $iban;?>">

</form>

<a href='interface.php?iban=<?php echo $iban;?>'><button>Връщане към основна страница</button></a>

<?php

include("Connect.php");

$query = "SELECT IBAN FROM BankOfKolyo";

$result = $conn->query($query);

foreach ($result as $row) {

echo "<br>".$row['IBAN'];

}

$query = "SELECT IBAN FROM BankOfVeni";

$result = $conn->query($query);

foreach ($result as $row) {

echo "<br>".$row['IBAN'];

}

Disconnect($conn);

BACK-END на интерфейс за изпращане на валута (SendFunds.php):

<?php

include("InterfaceVariables.php");

$recepientIBAN = $\_GET['recepientIBAN'];

$recepientAmount = floatval($\_GET['recepientAmount']);

$reason = $\_GET['reason'];

echo sendFunds($iban, $recepientIBAN, $recepientAmount, $reason, $currency);

История на транзакциите – избор на период от време(transactionHistoryInterface.php):

<?php

include('InterfaceVariables.php');

$currentDate = date('Y-m-d');

?>

<!-- <style>

div {

width: 250px;

height: 100px;

border: 2px;

background-color: powderblue;

border: 2px solid black;

padding: 20px;

}

table {

text-align: center;

width: 250px;

}

.fullrow {

text-align: center;

font-weight: bold;

color: indianred;

font-size: 20px;

}

</style> -->

<div>

<form method='get' action='transactionHistory.php'>

<table id='trhistoryTable'>

<tr>

<td class='fullrow' colspan='2'>История на транзакциите</td>

</tr>

<tr>

<td> Начална дата:</td>

<td> Крайна дата:</td>

</tr>

<tr>

<td><input type='date' name='startDate'></td>

<td><input type='date' value=<?php echo $currentDate; ?> name='endDate'></td> <!--Sets to current date-->

</tr>

<tr>

<td class='fullrow' colspan='2'><button class='interfaceDouble'>Покажи</button></td>

</tr>

</table>

<input type="hidden" name="iban" value="<?php echo $iban;?>">

</form>

</div>

<br><a href='interface.php?iban=<?php echo $iban; ?>'><button>Връщане към основната страница</button></a>

История на транзакциите – извеждане на транзакции за избран период от време(transactionHistory.php):

<style>

td {

text-align: center;

}

</style>

<?php

include("InterfaceVariables.php");

//Fetching the start and end date and setting a custom format

$startDate = date("j M, Y", strtotime($\_GET['startDate']));

$endDate = date("j M, Y", strtotime($\_GET['endDate']));

$StartDateSQL = date("Ymd", strtotime($\_GET['startDate']));

$EndDateSQL = date("Ymd", strtotime($\_GET['endDate'] . ' +1 day'));

//Checking if either is empty and giving the user an error

if(empty($\_GET["startDate"])) {

echo "<script>alert('Error: Please specify a start date');location='transactionHistoryInterface.php?iban=$iban';</script>";

}

if(empty($\_GET["endDate"])) {

echo "<script>alert('Error: Please specify an end date');location='transactionHistoryInterface.php?iban=$iban';</script>";

}

$result = transactionHistory($iban, $StartDateSQL, $EndDateSQL);

function displayHistory($result, $IBAN, $currency){

while($row = mysqli\_fetch\_assoc($result)){

echo "<tr>";

$date = date("j M, Y", strtotime($row['TransactionDate']));;

$note = $row['Note'];

if($IBAN == $row['RecipientIBAN']){

$foreignIBAN = $row['SenderIBAN'];

$amount = "<td style='color:MediumSeaGreen'>+" . strval(number\_format($row["Amount"], 2, '.', '')) . " $currency</td>";

} else if($IBAN == $row['SenderIBAN']) {

$foreignIBAN = $row['RecipientIBAN'];

$amount = "<td style='color:Tomato'>-" . strval(number\_format($row["Amount"], 2, '.', '')) . " $currency</td>";

}

$foreignBank = bankName($foreignIBAN);

$firstName = fetchValue('IBAN', $foreignIBAN, $foreignBank, "firstname");

$lastName = fetchValue("IBAN", $foreignIBAN, $foreignBank, "lastname");

$name = $firstName . " " . $lastName;

echo "<td>" . $date . "</td>";

echo "<td>" . $name . "</td>";

echo "<td>" . $note . "</td>";

echo $amount . "</tr>";

}

}

?>

<table>

<tr>

<td colspan='4'>История на Транзакциите</td>

</tr>

<tr>

<td colspan='2'>От</td>

<td colspan='2'>До</td>

</tr>

<tr>

<td colspan='2'><?php echo $startDate;?></td>

<td colspan='2'><?php echo $endDate;?></td>

</tr>

<tr>

<td>Дата</td>

<td>Име</td>

<td>Основание</td>

<td>Сума</td>

</tr>

<?php displayHistory($result, $iban, $currency);?>

</table>

<br><a href='interface.php?iban=<?php echo $iban;?>'><button>Връщане към основната страница</button></a>

<a href='transactionHistoryInterface.php?iban=<?php echo $iban;?>'><button>Назад</button></a>

Внасяне и изнасяне на валута в сметката(симулация на банкомат) от основният интерфейс(personalFunds.php):

<?php

include("InterfaceVariables.php");

include("Connect.php");

if ( empty($\_GET["removedFunds"]) && empty($\_GET["addedFunds"]) ) {

echo "<script>alert('Грешка: Трябва да добавиш сума!);location='interface.php?iban=$iban';</script>";

}

if ( isset($\_GET["addedFunds"]) && empty($\_GET["removedFunds"]) ) {

$funds = floatval($\_GET["addedFunds"]);

if($funds <= 0) {

echo "<script>alert('Грешка: Моля въведете валидно число');location='interface.php?iban=$iban';</script>";

return;

}

$sql = "SELECT Balance FROM $bankNameSql WHERE IBAN='$iban'";

$resultLocal = $conn->query($sql);

$row = $resultLocal->fetch\_assoc();

$balance = $row["Balance"];

$newBalance = $balance + $funds;

$sql = "UPDATE $bankNameSql SET Balance='$newBalance' WHERE IBAN='$iban'";

$conn->query($sql);

Disconnect($conn);

echo "<script>alert('Успешно внесени $funds $currency');location='interface.php?iban=$iban';</script>";

}

if ( isset($\_GET["removedFunds"]) && empty($\_GET["addedFunds"]) ) {

$funds = floatval($\_GET["removedFunds"]);

if($funds <= 0) {

echo "<script>alert('Грешка: Моля въведете валидно число');location='interface.php?iban=$iban';</script>";

return;

}

$sql = "SELECT Balance FROM $bankNameSql WHERE IBAN='$iban'";

$result = $conn->query($sql);

$row = $result->fetch\_assoc();

$balance = $row["Balance"];

if($balance < $funds) {

echo "<script>alert('Грешка: Недостатъчни средства');location='interface.php?iban=$iban';</script>";

return;

}

$newBalance = $balance - $funds;

$sql = "UPDATE $bankNameSql SET Balance='$newBalance' WHERE IBAN='$iban'";

$conn->query($sql);

Disconnect($conn);

echo "<script>alert('Успешно изтеглени $funds $currency');location='interface.php?iban=$iban';</script>";

}

if ( ($\_GET["removedFunds"]) && ($\_GET["addedFunds"]) ) {

echo "<script>alert('Грешка: Не може да добавиш и премахнеш пари едновременно');location='interface.php?iban=$iban';</script>";

}

Генериране на IBAN при регистрация (Generator.php):

<?php

function GenerateIban($BANK){

//All Bulgarian IBANS start with BG -- +2characters

$IBAN = "BG";

//Controll number and letters for Bank of Kolyo -- +6characters

if($BANK == "BankOfKolyo"){

$IBAN=$IBAN."01BOKB";

}

//Controll number and letters for Bank of Veni -- +6characters

if($BANK == "BankOfVeni"){

$IBAN=$IBAN."02BOVB";

}

//26 Randomly Generated Numbers -- +26characters

for($i=0;$i<26;$i++){

$IBAN=$IBAN.rand(0,9);

}

//total characters on a successfully created IBAN:

//34

return $IBAN;

//Total characters on a failed IBAN:

//28 (Neither of the banks is selected and the IBAN is generated invalidly)

}