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## Functionality

### Navigation

Navigation consists of:

* Home
* About
* Profile
* Transactions
* Register
* Login
* Logout

Logged in navigation includes:

* Home
* About
* Profile
* Transactions
* Logout

Logged out navigation includes:

* Home
* About
* Register
* Login

### Global elements

#### Services Bottom

**Class: "services-bottom"**

**Purpose: Display statistical information. Total users registered, total Zar Value withdrawn, Total Zar value deposited, total Zar value earned.**

**Display Sources: phpViews**

**Total users registered- CalculateUsers.php**

**Total Zar Value withdrawn- CalculateGlobalWithdrawals.php**

**Total Zar value deposited- CalculateGlobalDeposits.php**

**Total Zar value earned-**

### Update Wallet

|  |  |
| --- | --- |
| **Class** | **UpdateWallet** |
| **Description** | **Updates the WalletType, WalletAddress, ModifyDate fields of the User ID provided** |
| **Parameters** | **Associated User ID(AUID), New Wallet Type, New Wallet Address** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Update Wallet Type

|  |  |
| --- | --- |
| **Class** | **updateWalletType** |
| **Description** | **Updates the WalletType, ModifyDate fields of the User ID provided** |
| **Parameters** | **Associated User ID(AUID), New Wallet Type** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Update Wallet Address

|  |  |
| --- | --- |
| **Class** | **UpdateWalletAddress** |
| **Description** | **Updates the WalletAddress, ModifyDate fields of the User ID provided** |
| **Parameters** | **Associated User ID(AUID), New Wallet Address** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Update Withdrawal

|  |  |
| --- | --- |
| **Class** | **UpdateWithdrawal** |
| **Description** | **Updates the Transaction status field of the transaction ID provided** |
| **Parameters** | **Associated Transaction ID (TXID)** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Update Deposit

|  |  |
| --- | --- |
| **Class** | **UpdateDeposit** |
| **Description** | **Updates the Transaction status field of the transaction ID provided** |
| **Parameters** | **Associated Transaction ID (TXID)** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Update User

|  |  |
| --- | --- |
| **Class** | **UpdateUser** |
| **Description** | **Updates the password field of the user record with the AUDI provided** |
| **Parameters** | **Associated Transaction ID (AUID, New password)** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Wallet by Address

|  |  |
| --- | --- |
| **Class** | **SelectWalletByAddress** |
| **Description** | **Select wallet details of wallet record with the address provided** |
| **Parameters** | **Wallet Address** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Wallet by User

|  |  |
| --- | --- |
| **Class** | **SelectWalletByUser** |
| **Description** | **Select wallet details of wallet record with the AUID provided** |
| **Parameters** | **Wallet Address** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Withdrawals by TxId

|  |  |
| --- | --- |
| **Class** | **SelectWithdrawalsByTxId** |
| **Description** | **Select withdrawal records by the transaction ID provided** |
| **Parameters** | **TxId** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Withdrawals By User

|  |  |
| --- | --- |
| **Class** | **SelectWithdrawalsByUser** |
| **Description** | **Select withdrawal records by the AUID provided** |
| **Parameters** | **AUID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Deposit By User

|  |  |
| --- | --- |
| **Class** | **SelectDepositByUser** |
| **Description** | **Select Deposit** **records by the AUID provided** |
| **Parameters** | **AUID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select Deposit By TxID

|  |  |
| --- | --- |
| **Class** | **SelectDepositByTxId** |
| **Description** | **Select Deposit records by the TxID provided** |
| **Parameters** | **TxID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Select User

|  |  |
| --- | --- |
| **Class** | **SelectUser** |
| **Description** | **Select User record by the AUID and password provided** |
| **Parameters** | **Email, Password** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Create Withdrawal

|  |  |
| --- | --- |
| **Class** | **CreateWithdrawal** |
| **Description** | **Create withdrawal record by providing all the field data required** |
| **Parameters** | **AUID, TXID, ReceiverAddress, AmountSent, ExchangeRate** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Create Wallet

|  |  |
| --- | --- |
| **Class** | **CreateWallet** |
| **Description** | **Create withdrawal record by providing all the field data required** |
| **Parameters** | **AUID, TXID, ReceiverAddress, AmountSent, ExchangeRate** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Create User (And Password)

|  |  |
| --- | --- |
| **Class** | **CreateUser** |
| **Description** | **Create withdrawal record by providing all the field data required** |
| **Parameters** | **Email, Password, Name, Surname, GUID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Create Deposit

|  |  |
| --- | --- |
| **Class** | **CreateDeposit** |
| **Description** | **Create Depositrecord by providing all the field data required** |
| **Parameters** | **AUID, TXID, SenderAddress, AmountReceived, Currency, ExchangeRate, Status** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Calculate All User’s Deposits

|  |  |
| --- | --- |
| **Class** | **CalculateUserDepositSum** |
| **Description** | **Calculates sum of all a user’s deposit records** |
| **Parameters** | **AUID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Calculate All User’s Withdrawals

|  |  |
| --- | --- |
| **Class** | **CalculateUserDepositSum** |
| **Description** | **Calculates sum of all a user’s deposit records** |
| **Parameters** | **AUID** |
| **Status** | **Working** |
| **Test Results** |  |
| **Date** |  |

### Calculate User Total Earned

|  |  |
| --- | --- |
| **Class** | **CalculateUserTotalEarned** |
| **Description** | **Class of functions to calculate:**   * **User Current Account** * **Total Earned Per Deposit** * **Sum of all user’s deposit earnings** |
| **Parameters** |  |
| **Status** | ***User Current Account* Not Working. See Code for error**  **(‘**CalculateUserWithdrawalSum could not be converted to string**‘)** |
| **Test Results:**  Total Earned Per Deposit |  |
| **Test Results:**  Sum of all user’s deposit earnings |  |
| **Test Results:**  User Current Account |  |
|  |  |
| **Date** |  |

### Calculate User Total Earned

|  |  |
| --- | --- |
| **Class** | **CalculateUserTotalEarned** |
| **Description** | **Class of functions to calculate:**   * **User Current Account** * **Total Earned Per Deposit** * **Sum of all user’s deposit earnings** |
| **Parameters** |  |
| **Status** | ***User Current Account* Not Working. See Code for error**  **(‘**CalculateUserWithdrawalSum could not be converted to string**‘)** |
| **Test Results:**  Total Earned Per Deposit |  |
| **Test Results:**  Sum of all user’s deposit earnings |  |
|  |  |
| **Date** |  |