

BMU BANK

*A project submitted in partial fulfillment of the
requirements for the DBMS Course.*

Bachelor of Technology In COMPUTER SCIENCE



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Introduction

Through this project work, we aim to create a simplified version of a banking application. The application will act as a portal which provides it's users with various banking facilities like account management and transaction management. The aim is to learn how to create an application which uses a database in its backend. We also plan to make the application safe and secure so that it is not susceptible to vulnerabilities and security attacks.

Approach

We have divided the project work in the following stages:

1. We will first decide the tables and the respective attributes needed for our database.
2. We will then sketch an ER diagram of the database.
3. We will then plan out the appropriate screens needed for our application.
4. We will then move on to the programming part of the application.
5. We will then create the associated tests for our application to ensure that it works correctly.

Hardware Specification

- PC with 2 GB hard-disk and 256 MB RAM

Software Specification

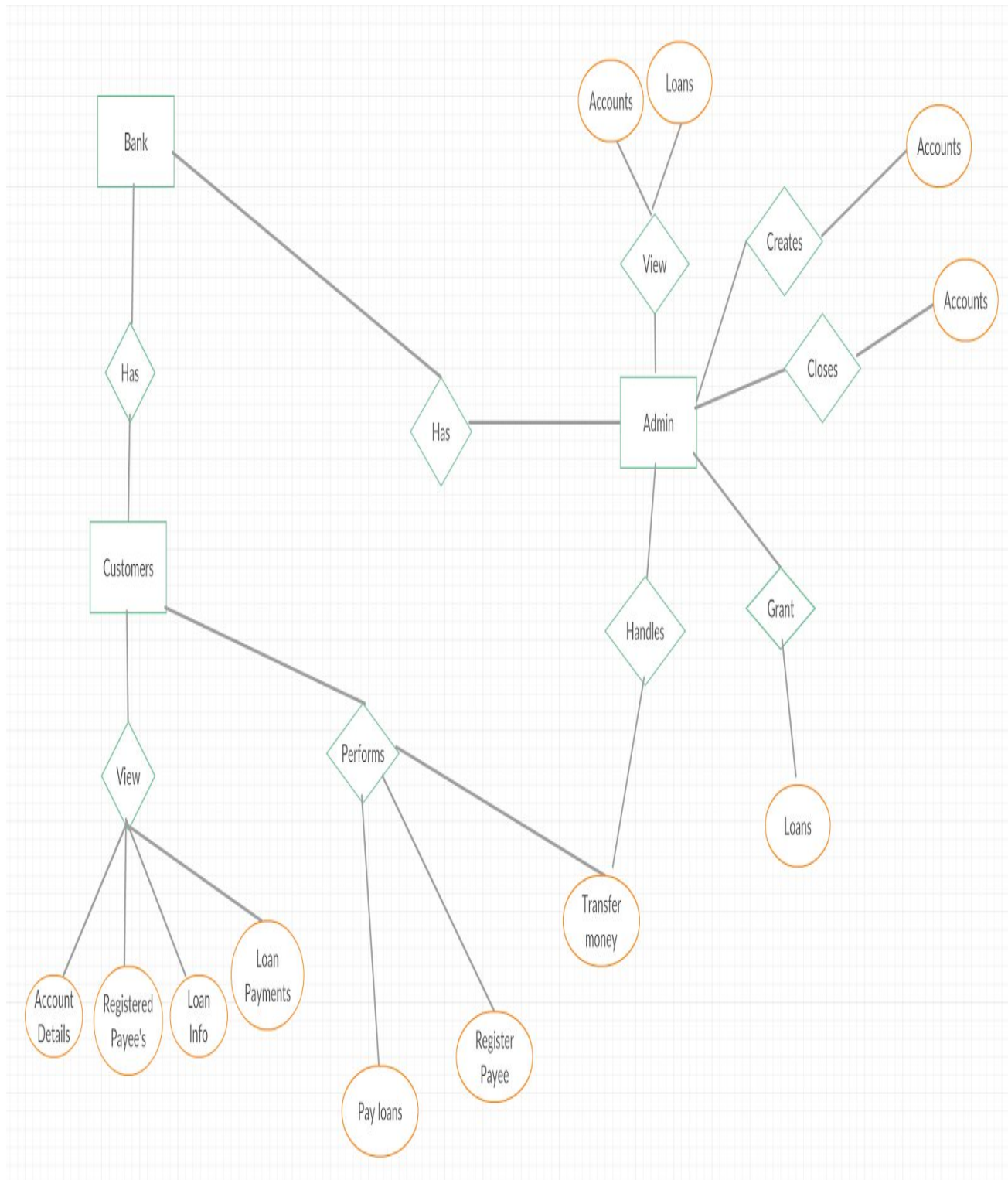
- Xampp - 7.1.1
- MySQL
- Sublime Text Editor

Database Design

Our database will consist of the following tables:

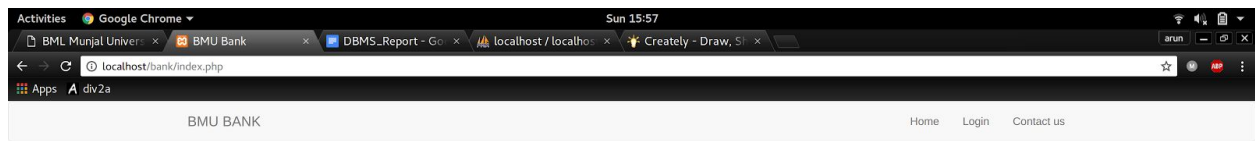
Table Name	Attributes	Functionality
Accounts	Id, accname, accno,accifsc, accemail, accpassword, acctype,accbalance, accdate	Details of all types of customer accounts
Branch	Ifsccode, branchname, city, branchaddress, state, country, pincode	Details of the branches of the bank
Loan	Id, accno, loantype, loanamt, loan_rem, interest, loandate	Details of all the loans issued by the bank
Loanpayment	Id, loantype, amount, from_acc, payment_date	Details of the all the loan payments by customers
Payee	Id, name, accno, acctype, ifsccode, registered_in	Details of payee registered by customers
Transactions	Id, payee_name, from_acc, Amount, trans_date	Details of all the transactions by customers
Users	Id, name, email, password	Login details of the customers

E-R Diagram



Screenshots

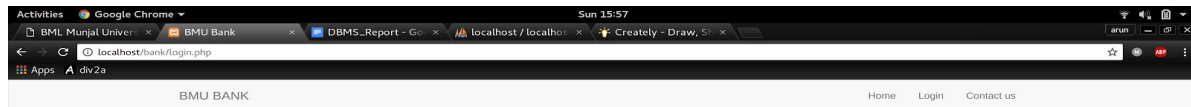
Homepage



Smart way to Bank



Login Screen



Login

Email

Password

Login

Contact Us

Activities Google Chrome Sun 15:58

BML Munjal University BMU BANK DBMS_Report - Go localhost / localhost Creately - Draw, S

localhost/bank/contact.php

Apps div2a

BMU BANK Home Login Contact us

Contact us

Head office:

BMU Bank,
National Highway 8, 67 KM Milestone,
Haryana,
122413,
India.

Hyderabad branch:

BMU Bank,
Balaji nagar, Kukatpally, JNTU,
Telangana,
158200,
India.

Admin Panel

Activities Google Chrome Sun 15:58

BML Munjal University BMU BANK DBMS_Report - Go localhost / localhost Creately - Draw, S

localhost/bank/addaccount.php

Apps div2a

Admin Dashboard Log Out

Add an account

Full Name * Enter your name

Account number * Enter account number

IFSC Code * Enter IFSC Code

Email-address * Enter Email-address

Password * Enter password

Account type * Savings

Account balance * Enter the balance

Submit

Add an account

Close an account

Grant Loan

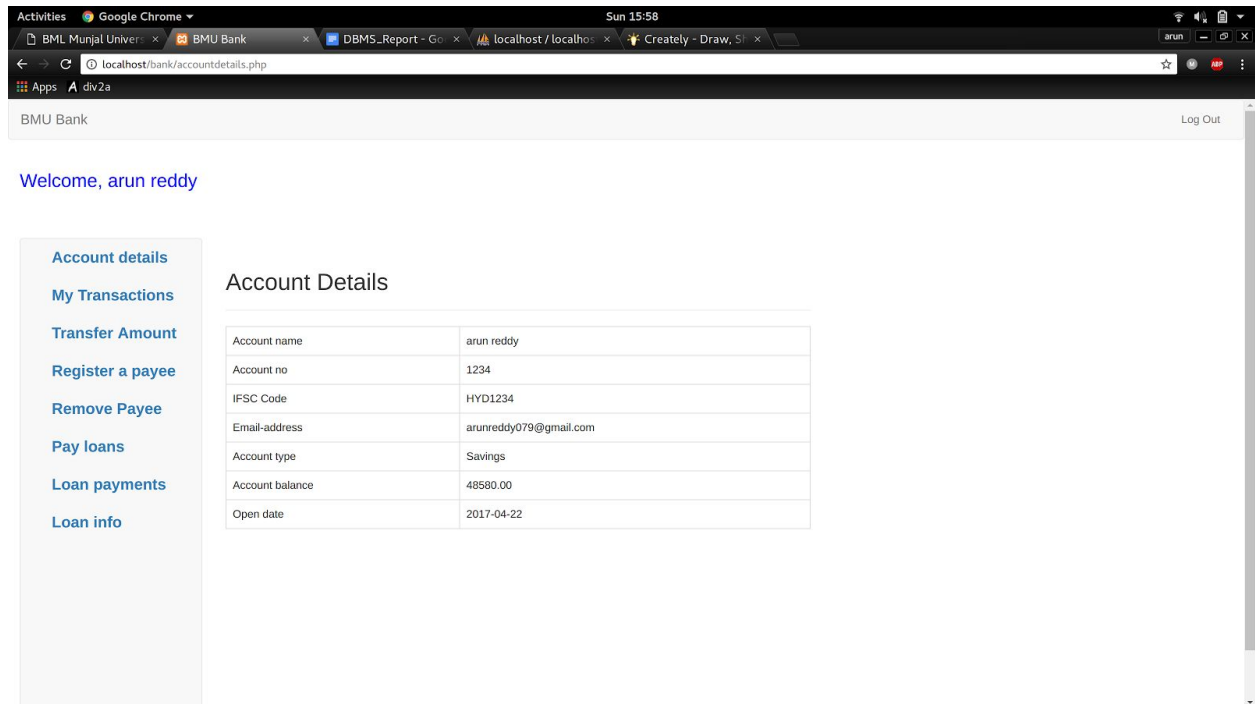
View accounts

Deposit money

Withdraw Money

View loans

Customer DashBoard



Sample Codes

Addaccount.php

```
<?php
session_start();
include 'includes/dbconnect.php';

$success = "";

if(isset($_POST['submit'])){

    $accname = $_POST['accname'];
    $accno = $_POST['accno'];
    $accifsc = $_POST['accifsc'];
    $accemail = $_POST['accemail'];
    $accpassword = $_POST['accpassword'];
    $acctype = $_POST['acctype'];
    $accbalance = $_POST['accbalance'];
    $accddate = date('y-m-d');
    $ins_sql = "INSERT INTO accounts(accname, accno, accifsc, accemail,
accpassword, acctype, accbalance, accdate) VALUES ('".$accname."', '".$accno."', '".$accifsc."',
"'.$accemail."', '".md5($accpassword)."', '".$acctype."', '".$accbalance."', '".$accddate."')";
    $run_sql = mysqli_query($con,$ins_sql);
    $in_sql = "INSERT INTO users(name, email, password) VALUES
('".$accname."', '".$accemail."', '".md5($accpassword)."'");
    $ru_sql = mysqli_query($con,$in_sql);

    $success = "Account added successfully!";

}
?>
<!DOCTYPE html>
<html>
<head>
    <title>BMU Bank</title>
    <link rel="stylesheet" href="css/custom.css">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-default" role="navigation">
    <div class="container-fluid">
```

```

        <div class="navbar-header">
            <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target="#navbar1">
                <span class="sr-only">Toggle navigation</span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class="navbar-brand" href="admin.php">Admin Dashboard</a>
        </div>
        <div class="collapse navbar-collapse" id="navbar1">
            <ul class="nav navbar-nav navbar-right">
                <?php if (isset($_SESSION['usr_id'])) { ?>

                    <li><a href="logout.php">Log Out</a></li>
                    <?php } else { ?>
                    <li><a href="login.php">Login</a></li>
                    <?php } ?>

                </ul>
            </div>
        </div>
    </nav>

    <div style="width: 50px; height: 50px;"></div>
    <div class="col-lg-2">
        <ul class="navbar navbar-default nav" style="height: 650px;">

            <li><a href="addaccount.php"><span style="margin-left: 25px; margin-top:20px;
font-size: 20px;"><b>Add an account</b></span></a></li>
            <li><a href="deleteaccount.php"><span style="margin-left: 25px; margin-top:
20px; font-size: 20px;"><b>Close an account</b></span></a></li>
            <li><a href="grantloan.php"><span style="margin-left: 25px; margin-top: 20px;
font-size: 20px;"><b>Grant Loan</b></span></a></li>
            <li><a href="viewaccounts.php"><span style="margin-left: 25px; margin-top:
20px; font-size: 20px;"><b>View accounts</b></span></a></li>
            <li><a href="depositmoney.php"><span style="margin-left: 25px; margin-top:
20px; font-size: 20px;"><b>Deposit money</b></span></a></li>
            <li><a href="withdrawmoney.php"><span style="margin-left: 25px; margin-top:
20px; font-size: 20px;"><b>Withdraw Money</b></span></a></li>
            <li><a href="viewloans.php"><span style="margin-left: 25px; margin-top: 20px;
font-size: 20px;"><b>View loans</b></span></a></li>
        </ul>
    </div>

    <div class="container">
        <article class="row">
            <section class="col-lg-8">
                <div class="page-header">

```

```

        <h2>Add an account</h2>
    </div>
    <form class="form-horizontal" action="addaccount.php" method="post"
role="form">
        <div class="form-group">
            <label for="name" class="col-sm-3 control-label">Full
Name *</label>
                <div class="col-sm-8">
                    <input type="text" name="accname"
class="form-control" placeholder="Enter your name" id="accname" required>
                </div>
            </div>
            <div class="form-group">
                <label for="number" class="col-sm-3
control-label">Account number *</label>
                    <div class="col-sm-8">
                        <input type="text" name="accno"
class="form-control" placeholder="Enter account number" id="accnumber" required>
                    </div>
                </div>
            <div class="form-group">
                <label for="number" class="col-sm-3 control-label">IFSC
Code *</label>
                    <div class="col-sm-8">
                        <input type="text" name="accifsc"
class="form-control" placeholder="Enter IFSC Code" id="accifsc" required>
                    </div>
                </div>
            <div class="form-group">
                <label for="number" class="col-sm-3
control-label">Email-address *</label>
                    <div class="col-sm-8">
                        <input type="email" name="accemail"
class="form-control" placeholder="Enter Email-address" id="accemail" required>
                    </div>
                </div>
            <div class="form-group">
                <label for="number" class="col-sm-3
control-label">Password *</label>
                    <div class="col-sm-8">
                        <input type="password"
name="accpassword" class="form-control" placeholder="Enter password" id="accpassword"
required>
                    </div>
                </div>
            <div class="form-group">
                <label for="name" class="col-sm-3 control-label">Account
type *</label>

```

```

        <div class="col-sm-8">
            <select class="form-control"
name="acctype" id="acctype">
                <option>Savings</option>
                <option>Current</option>
            </select>
        </div>
    </div>
    <div class="form-group">
        <label for="number" class="col-sm-3
control-label">Account balance *</label>
        <div class="col-sm-8">
            <input type="text" name="accbalance"
class="form-control" placeholder="Enter the balance" id="accbalance" required>
        </div>
    </div>
    <div class="form-group">
        <label class="col-sm-3 control-label"></label>
        <div class="col-sm-8">
            <input type="submit" id="submit" name="submit" value =
"Submit" class="btn btn-block btn-primary">
        </div>
    </div>
    <div class="form-group">
        <label class="col-sm-3 control-label"></label>
        <div class="col-sm-8">
            <h4><?php echo $success ?></h4>
        </div>
    </div>

</article></form></section></article></div>
</body>
</html>

```

Limitations

Our system aims at ultimate user satisfaction. But due to certain constraints, there remain a few drawbacks. A person interested in withdrawing or depositing funds has to do it manually by visiting their respective traditional bank. Moreover for the creation of a new account, a person has to visit the bank in reality with original documents. This provision is kept to prevent the creation of fake accounts.

Conclusion

This was a small attempt from our side to create a prototype of a system, vital nowadays in everyone's life. In spite of its drawbacks, hope it will serve the people upto a certain extent and on our side we shall try to enhance the system for the betterment of society.