

# *THE BANK OF GOTHAM CITY*

NET-BANKING PROJECT

PHP & MY-SQL

*JULY 2013*

# Online Banking System Using PHP

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## **Acknowledgement**

*This is to mention in a small way the help we got from various sources including the websites Google.com, w3schools.com, numerous online banking sites of HDFC, State Bank of India, Axis Bank, Canara Bank, Bank of India, Punjab National Bank, ICICI Bank, etc. We were also helped by a book “Advanced CSS”. Last but not the least we would always be grateful to our instructor Abhishek Kundu Sir for his immense help throughout our course and project work. And ofcourse a big thanks to the gfs community of GLOBSYN SKILLS who motivated us to produce a successful project.*

# Requirement Specification

## Domain Description:

*A system allowing individuals to perform banking activities at home, via the internet. Some online banks are traditional banks which also offer online banking, while others are online only and have no physical presence. Online banking through traditional banks enable customers to perform routine transactions such as transfer funds, balance inquiries, get mini statements, and stop-payment requests, and some even offer online loan applications.*

*Account information can be accessed anytime, day or night, and can be done from anywhere. A few online banks update information in real-time, while others do it daily. Once information has been entered, it doesn't need to be re-entered for similar subsequent checks, and future payments can be scheduled to occur automatically. Despite the advantages, there are a few drawbacks. It does take some time to set up and get used to an online account. Also, some banks only offer online banking in a limited area. In addition, when an account holder pays online, he/she may have to put in a check request as much as two weeks before the payment is due, but the bank may withdraw the money from the account the day that request is received, meaning the person has lost up to two weeks of interest on that payment. Online-only banks have a few additional drawbacks: an account holder has to mail in deposits (other than direct deposits), and some services that traditional banks offer are difficult or impossible for online-only banks to offer, such as cashier's checks.*

## Functional Requirements:

*As per the facilities provided by several online banking softwares, our project aims at covering the following functionalities to serve the customers having account in our bank in a better way-*

- 1. Opening new accounts.*

2. *Viewing the account details.*
3. *Getting ones accounts summary.*
4. *Obtaining mini statements.*
5. *Balance enquiry.*
6. *Transfer funds to another account in the same bank.*
7. *Request for cheque book.*
8. *Request for loan and sanctioning of the same .*

## Hardware Specification:

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

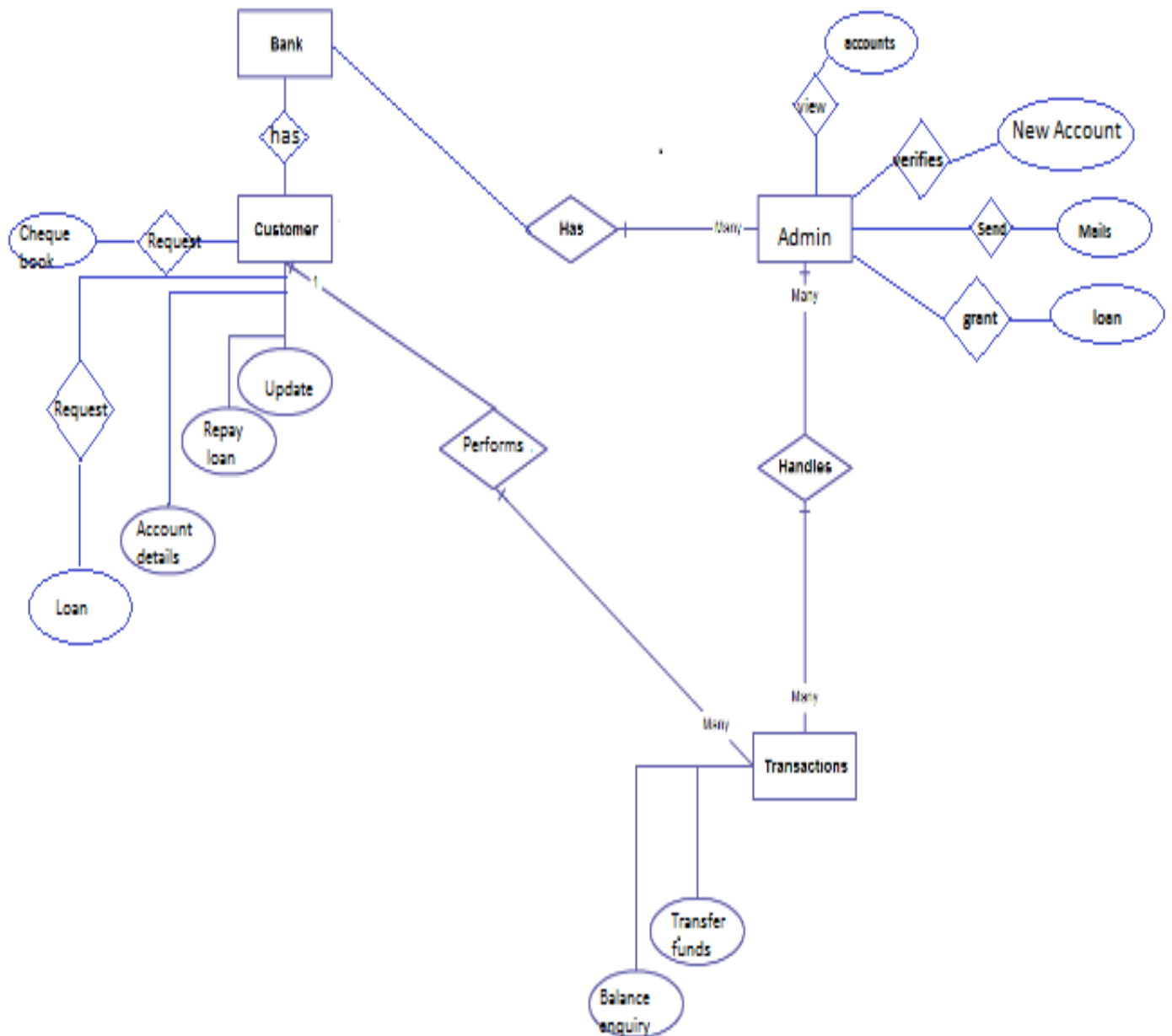
## Software Specification:

<i>Number</i>	<i>Description</i>	<i>Version</i>
<b>1</b>	<i>XAMPP</i>	<i>3.1.0</i>
<b>2</b>	<i>Apache</i>	<i>2.4.3(Win32)OpenSSL/1.0.1c PHP/5.4.7</i>
<b>3</b>	<i>MySQL</i>	<i>5.5.27-MySQL Community Server</i>
<b>4</b>	<i>Net Beans IDE</i>	<i>7.1</i>
<b>5</b>	<i>Operating System</i>	<i>Windows XP or Above</i>

# Database Design



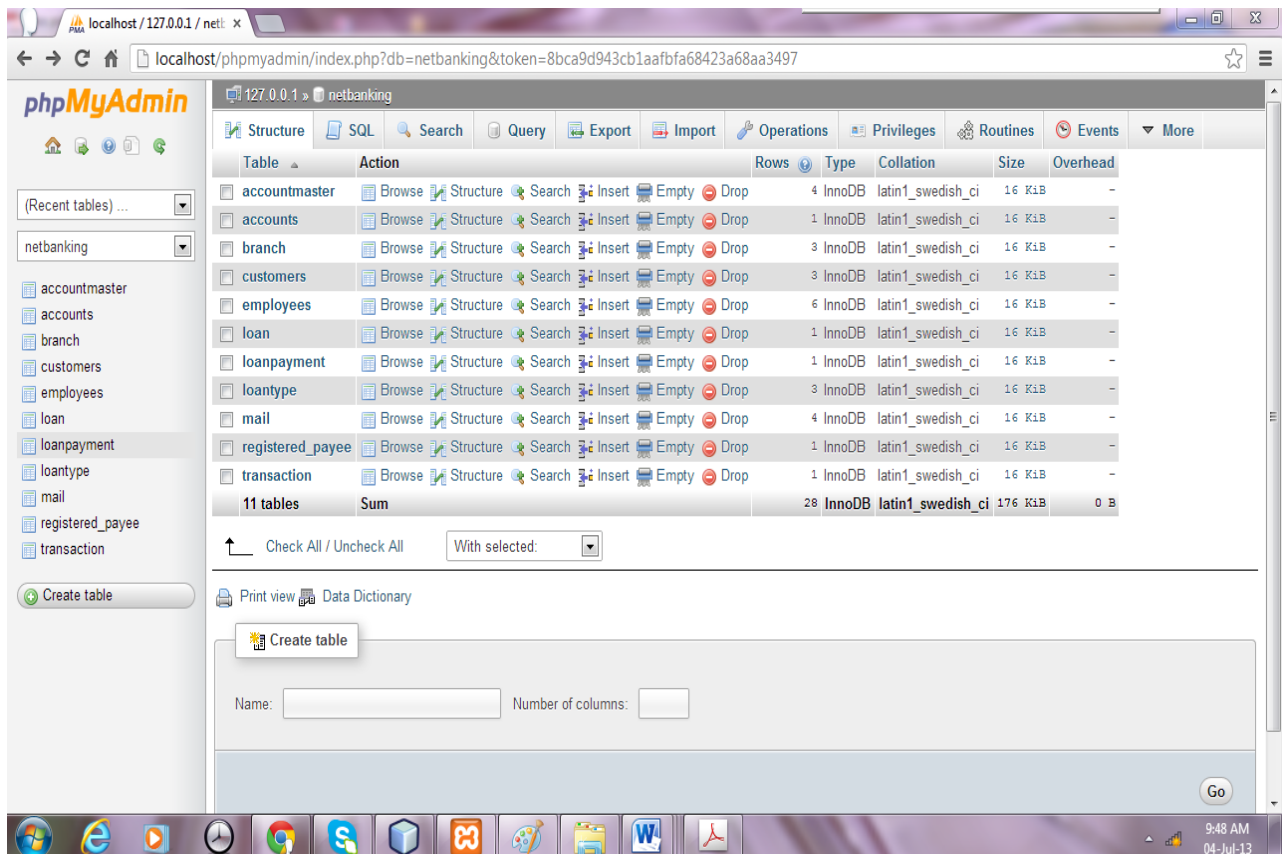
## E-R Diagram:



*E-R Diagram of online banking system*

## Table Description:

*The database used in this project is 'netbanking' using MySQL server. The database consists of the following tables:*



The screenshot displays the phpMyAdmin web interface for the 'netbanking' database. The left sidebar lists the database's tables: accountmaster, accounts, branch, customers, employees, loan, loanpayment, loantype, mail, registered\_payee, and transaction. The main panel shows a table structure overview with columns: Table, Action, Rows, Type, Collation, Size, and Overhead. Below this, a 'Create table' form is visible with fields for 'Name' and 'Number of columns', and a 'Go' button.

Table	Action	Rows	Type	Collation	Size	Overhead
accountmaster	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	4	InnoDB	latin1_swedish_ci	16 K1B	-
accounts	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1	InnoDB	latin1_swedish_ci	16 K1B	-
branch	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	3	InnoDB	latin1_swedish_ci	16 K1B	-
customers	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	3	InnoDB	latin1_swedish_ci	16 K1B	-
employees	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	6	InnoDB	latin1_swedish_ci	16 K1B	-
loan	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1	InnoDB	latin1_swedish_ci	16 K1B	-
loanpayment	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1	InnoDB	latin1_swedish_ci	16 K1B	-
loantype	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	3	InnoDB	latin1_swedish_ci	16 K1B	-
mail	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	4	InnoDB	latin1_swedish_ci	16 K1B	-
registered_payee	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1	InnoDB	latin1_swedish_ci	16 K1B	-
transaction	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1	InnoDB	latin1_swedish_ci	16 K1B	-
11 tables	Sum	28	InnoDB	latin1_swedish_ci	176 K1B	0 B

*The functionalities and attributes of each table are described in the next page:*



TABLE NAME	ATTRIBUTES	FUNCTIONALITY
<b>Accountmaster</b>	Accounttype, prefix, minbalance, interest	Details of all types of account.
<b>Accounts</b>	Accno,customerid,accstatus, Primaryacc,accopendate, accounttype,accountbalance Unclearbalance,accuredinterest	Details of the accounts,the customers have.
<b>Branch</b>	Ifscode,branchname,city, branchaddress,state,country	Details of the bank's branches.
<b>Customers</b>	Customerid,ifscode,firstname, lastname,Loginid,accpassword, transpasword,accstatus,city,state country,accopendate,lastlogin	Details of the customer.
<b>Employees</b>	Empid,employee_name,loginid, passwordEmailid,contactno, createdat,last_login	Details of the bank's employees
<b>Loan</b>	Loanid,loantype,loanamt, Interest,startdate	Loan specification
<b>Loanpayment</b>	Paymentid,date,paidamt, loanid	Details of the loans paid
<b>Loantype</b>	Loantype,prefix,maximumamt, minimumamt,Interest,status	Details of all types of loan
<b>mail</b>	Mailid,subject,message, mdatetime,Senderid,receiverid	Details of received and sent mails
<b>Registered_payee</b>	Customerid,payeeaname, Accountnumber, Accounttype bankname,ifscode	Details of the payee
<b>Transaction</b>	Transtractionid,transactiondate,ment Paymentdate,Payeeid,receiveid, debitac,amount,paymentstat	Details of transaction done.

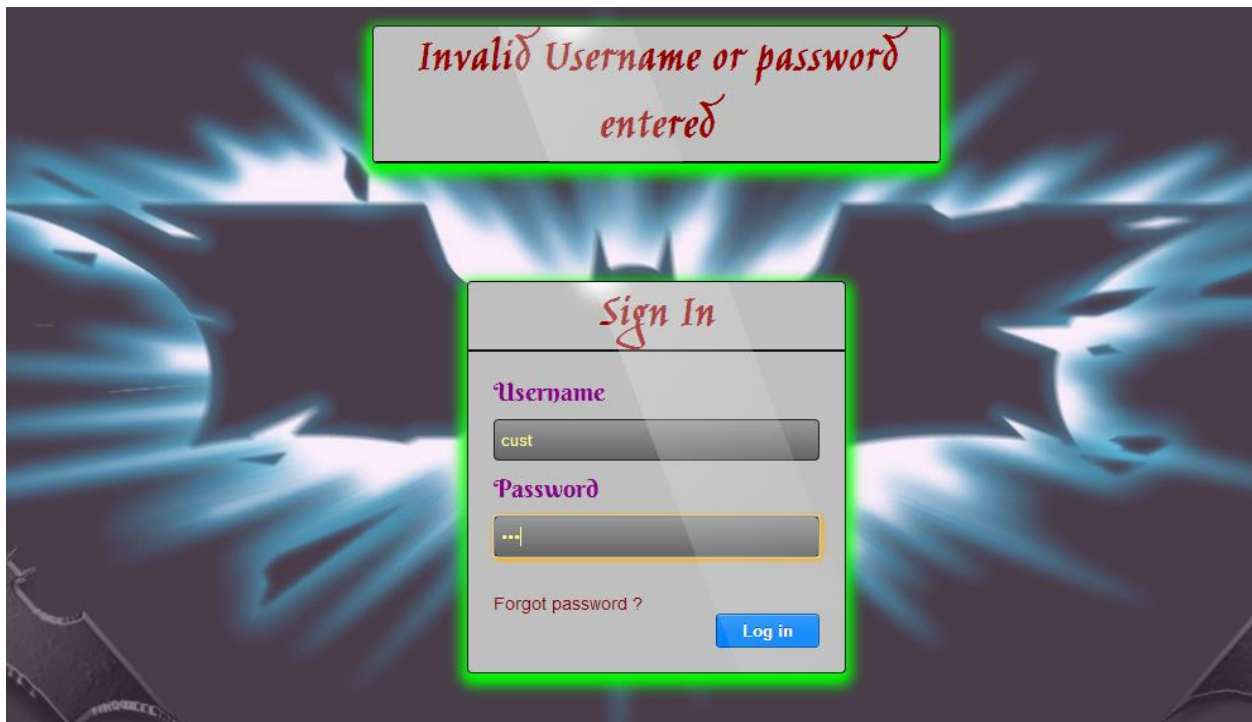
# Screen Shots

*There are several functions of the site. A few snapshots of some important pages of this site are shown below:*

*This is the homepage of our online banking project-‘The Bank Of Gotham City’.*



*This is the login page of the bank.*

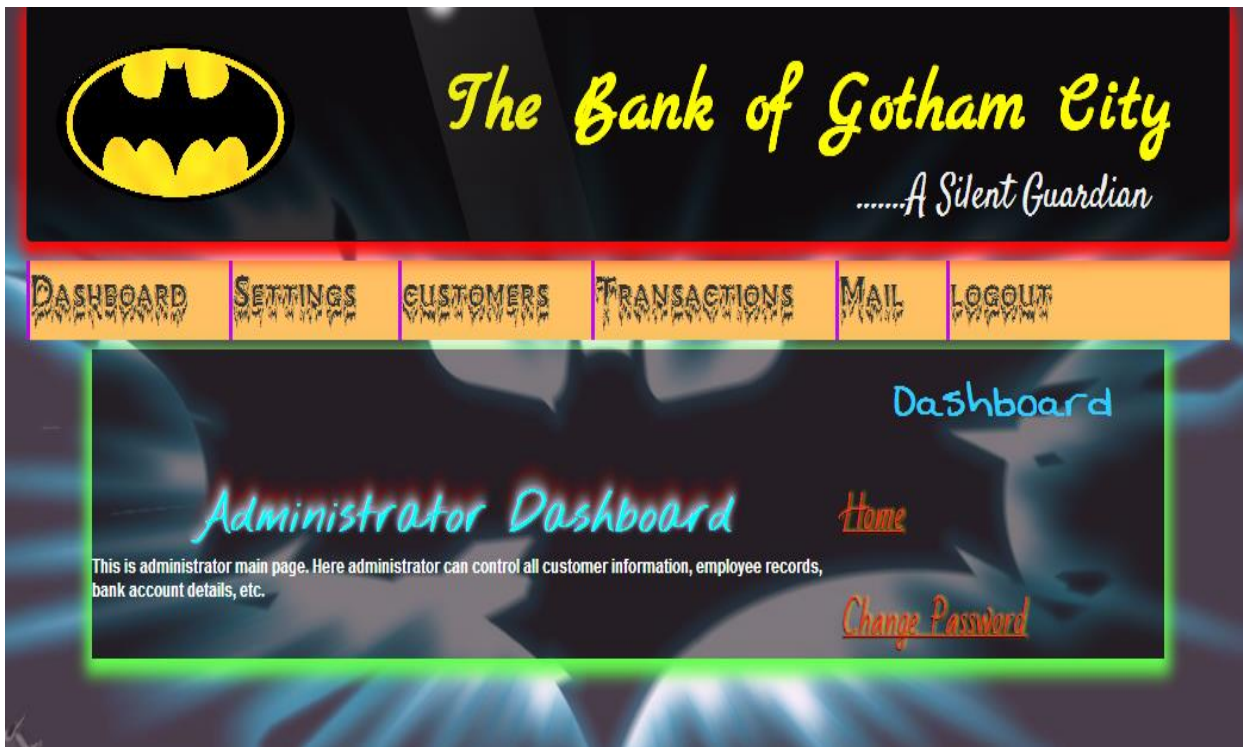


*This page shows information about different branches of the bank.*



*This is the administrator's dashboard.*






*This is the customer's section.*



*And this page shows the details of the account of a particular customer.*



# The Bank of Gotham City

.....A Silent Guardian

[MY ACCOUNTS](#)
[TRANSFER FUNDS](#)
[PAY LOANS](#)
[MAILS](#)
[PERSONALISE](#)
[LOGOUT](#)

## Account Details

john mark	
ACCOUNT NUMBER	4666
ACCOUNT TYPE	SV
ACCOUNT STATUS	active
PRIMARY ACCOUNT	40000
ACCOUNT HOLDER	john mark
ACCOUNT OPEN DATE	2013-02-11
ACCOUNT BALANCE	100000.00

## My Accounts

- [Accounts summary](#)
- [Mini statement](#)
- [Account details](#)
- [Statements of accounts](#)

And is this the contact-us page.



# The Bank of Gotham City

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[HOME](#)
[LOGIN](#)
[BRANCHES](#)
[HELP & FAQ](#)
[DOWNLOADS](#)
[CONTACT US](#)



## Contact us...

Head Office :

THE BANK OF GOTHAM CITY

STAR HOUSE

C - 5, "G" Block,

Batman Complex,

Kolkata.

West Bengal, India

Ph: 022-66684444

Email: bankgotham@gmail.com

# Sample Codes

## [Index.php:](#)

```
<?php
session_start();
error_reporting(0);
include("dbconnection.php");
if(isset($_SESSION['customerid']))
{
    header("Location: accountalerts.php"); exit(0);
}
if(isset($_SESSION['adminid']))
{
    header("Location: admindashboard.php");
}

?>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>The Bank of Gotham City</title>
<link href="css/LoginPageStyle.css" rel="stylesheet" type="text/css" />
</head>
<body>
    
    <div></div>
    <div id="bodycontent">

<div id="templatemo_wrapper">

    <div class="mainbox">
        
        <div id="site_title">

            <h1 style="margin-top: 30px;"><a href="index.php" style="color:yellow; text-decoration: none; margin-left:
1em;"><span>The Bank of Gotham City</span></a></h1>
            <p style="float:right; margin-right: 2.2em; color: buttonface; font-family: Satisfy,cursive; font-size:
2.5em;">>.....A Silent Guardian</p>

        </div> <!-- end of site_title -->
    </div> <!-- end of header -->
<div id="toptabmenu">
    <ul id="nav">
        <li><a href="index.php">Home</a></li>
        <li><a href="login.php">Login</a></li>
        <li><a href="branches.php">Branches</a></li>
        <li><a href="help.php">Help & FAQ</a></li>
        <li><a href="">Downloads</a>
        <ul>
            <li><a href="downloads/New_Account.pdf">New Account form</a></li>
```

```

        <li><a href="">Loan Forms</a>
        <ul>
        <li><a href="downloads/home_loan_application_form.pdf">Home Loan</a></li>
        <li><a href="downloads/Car_Loan_Application_Form.pdf">Car Loan</a></li>
        <li><a href="downloads/Education_Loan_Application_Form.pdf">Educational Loan</a></li>
        </ul>
        </li>
        <li><a href="downloads/ChequeBook_Request.pdf">Cheque book request</a></li>
        </ul>
    </li>
    <li><a href="contactus.php">Contact Us</a></li>
</ul>

</div>
</div>
<div id="templatemo_main">
    <div id="content-slider" class="b">
        <div id="slider" style="float:left">
            <div id="mask">
                <ul>
                    <li id="first" class="firstanimation">

                    </li>

                    <li id="second" class="secondanimation">

                    </li>

                    <li id="third" class="thirdanimation">

                    </li>

                    <li id="fourth" class="fourthanimation">
                        
                    </li>

                    <li id="fifth" class="fifthanimation">
                        
                    </li>
                </ul>
            </div>
        </div>
    </div>
    <div class="ex"><div class="heading">ANNOUNCEMENTS</div><br/><div class="low">
        <ul style="list-style-type:none;">
            <li class="one">Board meeting on 11/07/2013<br/><br/></li>
            <li class="two">Withdrawal limit of ATM rises<br/> from Rs 25000 to Rs 40000<br/><br/></li>
            <li class="three">Annual return forms available at<br/> your nearest branches now.<br/><br/></li>
            <li class="four">Fill your E-tax forms and submit<br/> within 30th July<br/><br/></li>
        </ul>
    </div>
    </div>

```

```

        <li class="five">New account for BPL certificate <br/> holders for only 100Rs.<br/></li>
    </ul>

</div></div>
</div>
<hr/><br/>
    <div class="home">
        <div class="begin"> Now monitor, transact and control your bank account online through our net banking
service.
        You can do multiple things from the comforts of your home or office with our Internet Banking - a one stop
solution
        for all your banking needs.You can now get all your accounts details, submit requests and undertake a wide
range of transactions online. Our E-Banking service
        makes banking a lot more easy and effective.</div><br/><br/>
        <span id="feat" ><b><u>Features</u></b></span><br/><br/>
        <ul style="padding-left:2em;list-style-image:url('images/next_blue.png');align:middle;"><li><span
class="subhead">Account Details</span><br/><br/>View your bank account details, account balance, download
statements and more. Also view your Demat,
        Loan & Credit Card Account Details too all in one place.</li><br/>
        <li><span class="subhead">Fund Transfer</span><br/><br/>Transfer fund to your own accounts,Other
Gotham Bank accounts seamlessly.</li><br/>
        <li><span class="subhead">Request Services</span><br/><br/>Give a request for Cheque book,Demand
Draft,Stop Cheque Payment,Debit Card Loyalty Point Redemption etc.</li><br/>
        <li><span class="subhead">Investment Services</span><br/><br/>View your complete Portfolio with the
bank, Create Fixed Deposit, Apply for IPO </li><br/>
        <li><span class="subhead">Value Added Services</span><br/><br/>Pay Utility bills for more than 160 billers,
Recharge Mobile, Create Virtual Cards, Pay any Visa Credit Card bills,
Register for estatement and sms banking</li></ul><br/>
<div class="begin">Register now for Gotham Bank's internet banking service to get started and avail for you multiple
utility services, all in a matter of a click. Getting started with our internet banking is real easy.
All you need to do is follow a few simple steps and you are good to go. <a href="register.php">Click here</a> for our
registration process
<p>We at the B.O.G.C follow best-in-class online security practices in order to safeguard your information while you are
banking online. We are constantly at task for preventing fraud and thereby making all your net banking transactions
completely safe.
        </div>
    </div>
</div> <!-- end of main -->
</div>
    <?php include'footer.php' ?>
</body>
</html>

```

## Login.php:

```

<?php
session_start();
error_reporting(0);
include("dbconnection.php");

if(($_REQUEST['error'])=='nologin')
    $logininfo="Please Sign In to Continue";
else if(($_REQUEST['error'])=='forgetpass')

```



```

    $logininfo="Please contact the nearest branch";
if(isset($_SESSION['customerid']))
{
    header("Location: accountalerts.php"); exit(0);
}
if(isset($_SESSION['adminid']))
{
    header("Location: admindashboard.php");
}
if (isset($_SESSION['employeeid']))
{
    header("Location:employeeaccount.php");
}
if ((isset($_REQUEST['login'])))
{
    $password = mysql_real_escape_string($_REQUEST['password']);
    $logid= mysql_real_escape_string($_REQUEST['login']);
    $query="SELECT * FROM customers WHERE loginid='$logid' AND accpassword='$password'";
    $res= mysql_query($query);
    if(mysql_num_rows($res) == 1)
    {
        while($recarr = mysql_fetch_array($res))
        {

            $_SESSION['customerid'] = $recarr['customerid'];
            $_SESSION['ifsccode'] = $recarr['ifsccode'];
            $_SESSION['customername'] = $recarr['firstname']. " ". $recarr['lastname'];
            $_SESSION['loginid'] = $recarr['loginid'];
            $_SESSION['accstatus'] = $recarr['accstatus'];
            $_SESSION['accopendate'] = $recarr['accopendate'];
            $_SESSION['lastlogin'] = $recarr['lastlogin'];
        }
        $_SESSION["loginid"]=$_POST["login"];
        header("Location: accountalerts.php");
    }
else{
    $res = mysql_query("SELECT * FROM employees WHERE loginid='$logid' AND password='$password'");

    if(mysql_num_rows($res) == 1)
    {
        $_SESSION["adminid"]=$_POST["login"];
        header("Location: admindashboard.php");
    }
    else
    {
        $logininfo = "Invalid Username or password entered";
    }
}
}
?>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

```

```

<title>The Bank of Gotham City</title>
<link href="css/LoginPageStyle.css" rel="stylesheet" type="text/css" />
</head>
<body>
    
    <div></div>
    <div id="bodycontent">

<div id="templatemo_wrapper">

    <div class="mainbox">
        
        <div id="site_title">

            <h1 style="margin-top: 30px;"><a href="index.php" style="color:yellow; text-decoration: none; margin-left:
1em;"><span>The Bank of Gotham City</span></a></h1>
            <p style="float:right; margin-right: 2.2em; color: buttonface; font-family: Satisfy,cursive; font-size:
2.5em;">.....A Silent Guardian</p>

        </div> <!-- end of site_title -->
    </div> <!-- end of header -->
<div id="toptabmenu">
    <ul id="nav">
        <li><a href="index.php">Home</a></li>
        <li><a href="login.php">Login</a></li>
        <li><a href="branches.php">Branches</a></li>
        <li><a href="help.php">Help & FAQ</a></li>
        <li><a href="">Downloads</a>
            <ul>
                <li><a href="downloads/New_Account.pdf">New Account form</a></li>
                <li><a href="">Loan Forms</a>
                    <ul>
                        <li><a href="downloads/home_loan_application_form.pdf">Home Loan</a></li>
                        <li><a href="downloads/Car_Loan_Application_Form.pdf">Car Loan</a></li>
                        <li><a href="downloads/Education_Loan_Application_Form.pdf">Educational Loan</a></li>
                    </ul>
                </li>
                <li><a href="downloads/ChequeBook_Request.pdf">Cheque book request</a></li>
            </ul>
        </li>
        <li><a href="contactus.php">Contact Us</a></li>
    </ul>

</div>
</div>

<?php if(isset($logininfo))
{ echo"<div class='logmainbox' style='width:450px;'><h1>$logininfo</h1></div>"; } ?>
    <div class="logmainbox">
        <form action="login.php" method="POST">
            <h1>Sign In</h1>
            <div class="loginset">
                <p>
                    <label class="Ltext">Username</label>

```

```

        <input type="text" name="login" class="loginput">
    </p>
    <p>
        <label class="Ltext" for="password">Password</label>
        <input type="password" name="password" class="loginput">
    </p>
</div>
<p class="p-container">
    <a href="login.php?error=forgetpass">Forgot password ?</a><br/>
    <input type="submit" name="go" id="go" value="Log in" class="loginput">
</p>
</form>
</div>
</div>
<?php include'footer.php' ?>
</body>
</html>

```

## footer.php

```

<div class="footer" style="margin-bottom: 0px;">
    
    <div style="height:100px; float:left; width:90em; margin-top: 100px; margin-left: 120px;text-align: center; z-index: 3;
position: absolute;" class="mainbox">
        <h1 style="font-size:2em; font-family: 'Kaushan Script'; color:#990099;">Developed @ Globsyn Summer
School</h1>
        <h3 style="font-size:1.5em; font-family: 'Kaushan Script'; color:#ff33ff;">PHP & MYSQL Project</h3>
        <p style="font-size: 22px; font-family:'Berkshire Swash',cursive; color:orange;"><marquee direction="left"
onMouseOver="this.stop()" onMouseOut="this.start()">Made By: Adarsh Mohata, Ashish Kedia, Tanaya Mondal,
Moumita Ghosh </marquee> </p>
    </div>
    
</div>

```

## branches.php

```

<?php
session_start();
error_reporting(0);
include("dbconnection.php");
if(isset($_SESSION['customerid']))
{
    header("Location: accountalerts.php"); exit(0);
}
if(isset($_SESSION['adminid']))
{
    header("Location: admindashboard.php");
}
if (isset($_SESSION['employeeid']))
{
    header("Location:employeeaccount.php");
}

```

```

?>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>The Bank of Gotham City</title>
<link href="css/LoginPageStyle.css" rel="stylesheet" type="text/css" />
<link href="css/style.css" rel="stylesheet" type="text/css" />
</head>
<body>
  
  <div></div>
  <div id="bodycontent">

<div id="templatemo_wrapper">

  <div class="mainbox">
    
    <div id="site_title">

      <h1 style="margin-top: 30px;"><a href="index.php" style="color:yellow; text-decoration: none; margin-left:
1em;"><span>The Bank of Gotham City</span></a></h1>
      <p style="float:right; margin-right: 2.2em; color: buttonface; font-family: Satisfy,cursive; font-size:
2.5em;">.....A Silent Guardian</p>

    </div> <!-- end of site_title -->
  </div> <!-- end of header -->
<div id="toptabmenu">
  <ul id="nav">
    <li><a href="index.php">Home</a></li>
    <li><a href="login.php">Login</a></li>
    <li><a href="branches.php">Branches</a></li>
    <li><a href="help.php">Help & FAQ</a></li>
    <li><a href="">Downloads</a>
      <ul>
        <li><a href="downloads/New_Account.pdf">New Account form</a></li>
        <li><a href="">Loan Forms</a>
          <ul>
            <li><a href="downloads/home_loan_application_form.pdf">Home Loan</a></li>
            <li><a href="downloads/Car_Loan_Application_Form.pdf">Car Loan</a></li>
            <li><a href="downloads/Education_Loan_Application_Form.pdf">Educational Loan</a></li>
          </ul>
        </li>
        <li><a href="downloads/ChequeBook_Request.pdf">Cheque book request</a></li>
      </ul>
    </li>
    <li><a href="contactus.php">Contact Us</a></li>
  </ul>

</div>
</div>
<div id="templatemo_main">
  <div class="image view"><div
class="mask">
  <h2>CHAIRMAN</h2>

```





```

        </div> <!-- end of site_title -->
    </div> <!-- end of header -->
<div id="toptabmenu">
    <ul>
        <li><a href="accountalerts.php">My accounts</a></li>
        <li><a href="transferfunds.php">Transfer funds</a></li>
        <li><a href="payloans.php">Pay loans</a></li>
        <li><a href="mailinbox.php">Mails</a></li>
        <li><a href="changetranspass.php">Personalise</a></li>
        <li><a href="logout.php">logout</a></li>
    </ul>

</div>
</div>

<div id="templatemo_main">
    <div id="sidecon">
        <h2>Fund Transfer</h2>

        <form id="form1" name="form1" method="post" action="">
            <p style="font-size:18px;">Fund Transfer menu provide you to make
fund transfers between your different accounts as well as making a transfer to
a third party. You can even make an enquiry about your transfers and view the
pending transfers through this menu.</p>
            </form>

        </div>

        <div id="sidebar">
            <h2>Transfer Funds</h2>

            <ul>
                <li><a href="addexternalpayee.php">Add External Payee</a></li>
                <li><a href="viewexternalpayee.php">View registered
Payee</a></li>
                <li><a href="Makepayment.php">Make a Payement</a></li>
                <li><a href="Transactionmade.php?pst=Complete">Payements
Made</a></li>
            </ul>

        </div>
    </div>

    <?php include'footer.php' ?>
</div>
</body>
</html>

```

## **Future Scope of Improvement**

*Our project aims at the delivery of proper services to the users, but still we lack some utilities. For this inconvenience we are trying to bring in as much facilities as possible. In our development process we will firstly attempt for the online deposit and withdrawal of money from the bank. We will try to make the system more secure and free it from any flaws currently present. To reduce the work of the administrator will be a major concern, where we shall attempt to shift the verifying activities of each account details from manually to the system.*



# 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.*

**THANK YOU!!**