BANKWALAH USER MANUAL
Team Ransomware (IIT Bombay)

Ashish Chandra, Deepesh Meena, Anshu Ahirwar

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1 Bankwalah

1.1 What is Bankwalah

Bankwalah is an open-source banking software to be used by banks to manage customers, employees, daily transactions, balance etc. The bankwalah is capable to store all the information that the banks need for their daily functioning. The easy and attractive user interface is very convenient and can be easily operated by any programming-nerd (one who does not know programming).

1.2 Employee Roles

The software has three levels of authorization. An employee at any branch will be given either of the three roles :

- Administrator (Shaktimaan)
- Manager (Geeta)
- Clerk (Gangadhar)

1.3 Powers of Administrator (Shaktimaan)

- Create, Edit, Delete, View All Branches
- Create, Edit, Delete, View Employees (of any branch)
- Create, Edit, Delete, View Customers (of any branch)
- Create, Edit, Delete, View Transactions (of any customer)
- Transfer Money from any account to any other account (of any branch)
- Although he is associated with a branch but he has powers to manage all branches and all activities of all customers.
- There can be any number of Administrators and not just one.

1.4 Powers of Manager (Geeta)

- View All Branches
- Create, Edit, Delete Employees (of his branch only). He can view Employees of all branches including his.
- Create, Edit, Delete, View Customers (of his branch only)
- Create, Edit, Delete, View Transactions (of any customer of his branch only)
- Transfer Money from any account holder of his branch to any other account of same or other branch.
- He is associated with a branch and his activities are mostly limited to his branch only (except only viewing all branch employees).
- There can be any number of managers in a branch.

1.5 Powers of Clerk (Gangadhar)

- View All Branches

- He can view Employees of all branches including his.

- Create, Edit, Delete, View Customers (of his branch only)

- Create, Edit, Delete, View Transactions (of any customer of his branch only)

- Transfer Money from any account holder of his branch to any other account of same or other branch.

- He is associated with a branch and his activities are mostly limited to his branch only (except only viewing all branch employees).

- There can be any number of clerks in a branch.

2 Languages used in this build

2.1 Core Languages

- PHP

- SQL

- HTML

- CSS

- JavaScript

2.2 Standard Libraries

- CSS Package : Bootstrap

- JS Library : JQuery

2.3 Third Party Scripts

- Datepicker (JQuery)

3 Database and tables

3.1 Database

- Database Name : bankwalah_db

3.2 Tables inside the Database

- branches
- employees
- customers
- transactions

4 How to install

4.1 Prerequisites

To test the software you will need the following to run localhost :

- PHP7 or above

- MySQL Database Management System

- Apache Server for Localhost

- Any Web Browser. Firefox 56 or above is recommended.

To make your life easier, all of the above main 3 software are available in one package called EasyPHP Devserver. A free program to run localhost.

4.2 Installation Steps

1. Uploading Files to Server

   - Extract the zip file into your desktop or wherever. You will get two folders : bankwalah and phpmyadmin

   - Copy both the folders into your localhost server. (In my PC the full path is C:/Program Files/EasyPHP-Devserver-17/eds-www/

2. Editing dbconfig.php

   - Open the file : bankwalah/dbconfig.php in any text-editor of your choice.

   - Change the first 3 variables according to your localhost and database settings. Leave the 4th variable as it is.

     ```
     $servername = "localhost";
     $username = "root";
     $password = "";
     $dbname = "bankwalah_db";
     ```

   - Save the file and exit the text editor.

3. In the bankwalah folder, find the following two folders and provide chmod 777 permission to these two folders :

   - img-employees

   - img-customers

4. Creating the Database and Tables inside the Database and Loading Sample Data

   - Open in browser : http://localhost/phpmyadmin/

   - Use your root login and password for MySQL to login into PHPMyAdmin.

   - In the left sidebar panel click : New

- Put Database name : bankwalah_db
- And click : Create
- Now a new database called bankwalah_db will be visible in the left sidebar panel.
- Click bankwalah_db in the left sidebar panel.
- Then go to import and browse the file : bankwalah/_README/BANKWALAH_DB_SAMPLEDATA.sql
- Then at the bottom of the page click : Go
- Now every setting is done. You can close PHPMyAdmin.

5 How to Run

5.1 Logging

1. Open in browser : http://localhost/bankwalah/

2. Here are sample logins and passwords that you can use to enter the dashboard. Login and password can be changed in respective user profile.

   - Administrator (Shaktimaan) : ashish ashish123
   - Manager (Geeta) : deepesh deepesh123
   - Clerk (Gangadhar) : anshu anshu123

5.2 Banking Actions

1. Using the dashboard after login is very easy. It does not need any extra clarification. Start exploring the site and in short time you will find everything very easy and in place. You should first start with Administrator (Shaktimaan).

2. Actions to do as a trial in Administrator (Shaktimaan)

   - Create a new branch
   - Create a new employee
   - Create a new customer
   - Deposit money to an account
   - Withdraw money from an account
   - Transfer money from one account to another

6   References

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8. https://www.tutorialspoint.com/php/php_mysql_login.htm

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11. And many more online tutorials from various sources.

——————————————————- **THANK YOU** ——————————————————-