

MiniBanking System - User Guide & Deployment Instructions

User Guide for MiniBanking System

1. Overview

MiniBanking is a web-based application that allows users to manage customers, savings accounts, and transactions including deposits, withdrawals, and viewing transaction history.

2. Features

- Add, view, edit, and delete customers.
- Open and view savings accounts.
- Deposit and withdraw money for customers.
- View transaction history by customer and date range.
- User login/logout for access control.

3. Accessing the Application

- Open your browser and go to:
<http://localhost:8085/MiniBanking/login>
- Login using your credentials.

4. Customer Management

- Add Customer: Fill in personal and account details and submit.
- View Customers: Lists all customers.
- Edit Customer: Enter customer ID, edit details, and submit.
- Delete Customer: Enter customer ID and confirm deletion.

5. Account Management

- Open Savings Account: Select existing customer, provide initial deposit and date.
- View Savings Accounts: List all savings accounts.
- Deposit Money: Select customer account, enter deposit amount and date.
- Withdraw Money: Select customer account, enter withdrawal amount and date (checks balance).
- View Transaction History: Enter customer ID and date range to see transactions.

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6. Logout

- Use the Logout button to end your session securely.

Deployment Instructions for MiniBanking System

1. Prerequisites

- Java Development Kit (JDK 8 or above)
- Apache Tomcat Server (version 9 or above)
- MySQL Server
- Maven (for building the project)

2. Database Setup

- Create a MySQL database named 'online_banking'.
- Import the provided SQL script (online_banking_backup.sql) into MySQL to create tables and sample data:

```
mysql -u root -p online_banking < online_banking_backup.sql
```

- Ensure MySQL username/password in DatabaseConnection.java matches your setup (root / 1234).

3. Build Project

- Navigate to the project directory in your terminal.
- Run:

```
mvn clean package
```

- This will generate a WAR file MiniBanking.war inside the target folder.

4. Deploy WAR to Tomcat

- Copy MiniBanking.war to Tomcat's webapps folder.
- Start Tomcat server:

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```
cd /path/to/tomcat/bin  
.startup.sh # or startup.bat on Windows
```

- Tomcat will auto-deploy the WAR.

5. Access Application

- Open browser and go to:

<http://localhost:8085/MiniBanking/login>

- Login and start using the system.

6. Stopping Tomcat

- To stop the server:

```
./shutdown.sh # or shutdown.bat on Windows
```