

Main Java Project: Online Banking System with Database and GUI

Project Overview

- A realistic banking application with complete features for both **customers and admin**.
 - Customers can:
 - Create accounts
 - Deposit/withdraw money
 - Transfer money
 - View transaction history
 - Admin can:
 - Manage accounts (CRUD)
 - View all customers
 - Generate reports
 - Data stored in a database (MySQL) for persistence.
 - GUI implemented using Java Swing or JavaFX for professional look.
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Core Features

1. User Authentication:
 - Login and registration system
 - Role-based access: Admin/Customer
 2. Banking Operations:
 - Deposit, Withdraw, Transfer
 - Transaction history for each account
 3. Admin Panel:
 - Manage accounts
 - Search and update customer info
 - Generate reports
 4. Data Persistence:
 - Store all accounts and transactions in MySQL
 - Optional: Backup to CSV
 5. GUI Interface:
 - Professional interface using **Swing/JavaFX**
 - Forms for account creation, transactions, and admin dashboard
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Skills Demonstrated

- **OOP Concepts:** Classes, Objects, Inheritance, Encapsulation, Polymorphism

- **Database Connectivity:** JDBC, SQL queries
 - **GUI Development:** Swing/JavaFX
 - **Collections & Exception Handling**
 - **File Handling or Report Generation**
 - **Real-world problem solving & logical thinking**
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Why It's Job-Worthy

- Simulates a **real banking system**, which companies understand easily
 - Shows **full-stack Java skills** (core Java + database + GUI)
 - Can be extended with advanced features:
 - Multi-user login
 - PDF report generation
 - ATM simulation
 - Makes a **strong impression in interviews**
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Pro Tip:

If you implement this **with GUI + MySQL database + proper OOP design**, it becomes a **major project**, not a mini project, and **can single-handedly strengthen your resume** for IT job applications.