

Abed Bank

1) Application Architecture:

- The application follows the MVC (Model-View-Controller) architecture.
- Models include Account, Admin, CheckingAccount, Client, DataDriver, etc.
- Views are designed using JavaFX with .fxml files, easily created using Scene Builder.
- Controllers implement functions required by the GUI and interact with models.

2) Database Modeling:

- MySQL is used as the Database Management System (DBMS).
- Five tables: Client, Admin, Transactions, CheckingAccount, SavingAccounts.
- Relationships are represented in both an ER (Entity-Relationship) diagram and a Physical diagram.
- JDBC is used for database connectivity, utilizing functions and Stored Procedures from the abedbank

Path to the models: src/main/resources/com/database/models

3) Services and Interface Modeling:

- Screenshots of services and interface modeling are available in the ScreenShots folder.
- Key features include creating accounts with specific roles, advanced job searching, easy job application, job posting by recruiters, and application tracking.

4) Implementation and Testing:

- The implementation is done using open-source Java code.
- Testing is demonstrated through small demo videos showcasing main features.
- Demo videos are available in the DemoVideos folder.