OBJECT ORIENTED ANALYSIS & DESIGN WITH JAVA

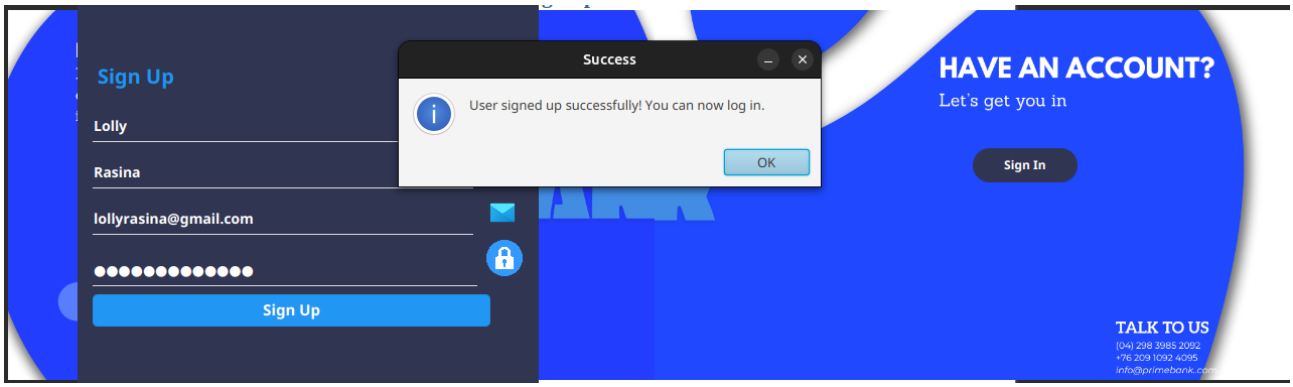
Module Integration & Testing Report

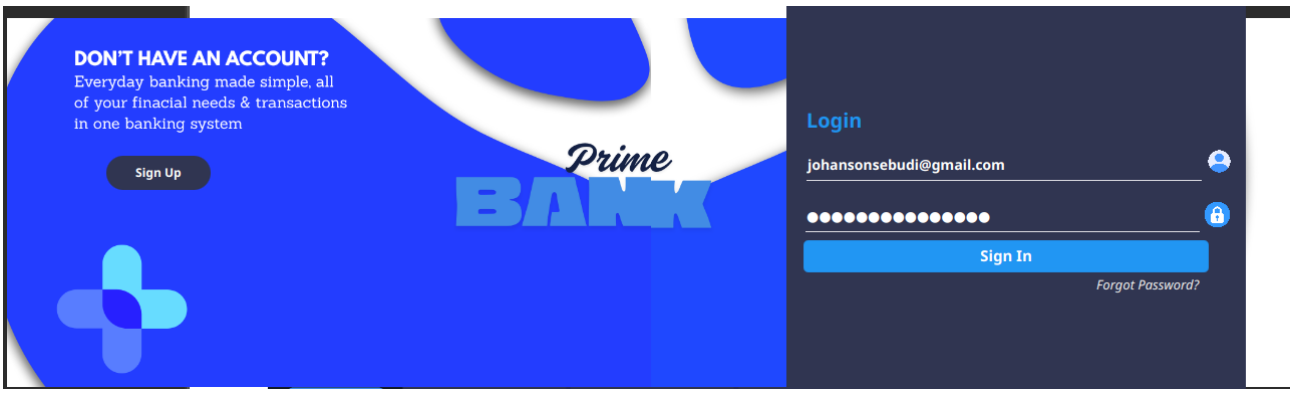
Boundary (GUI)

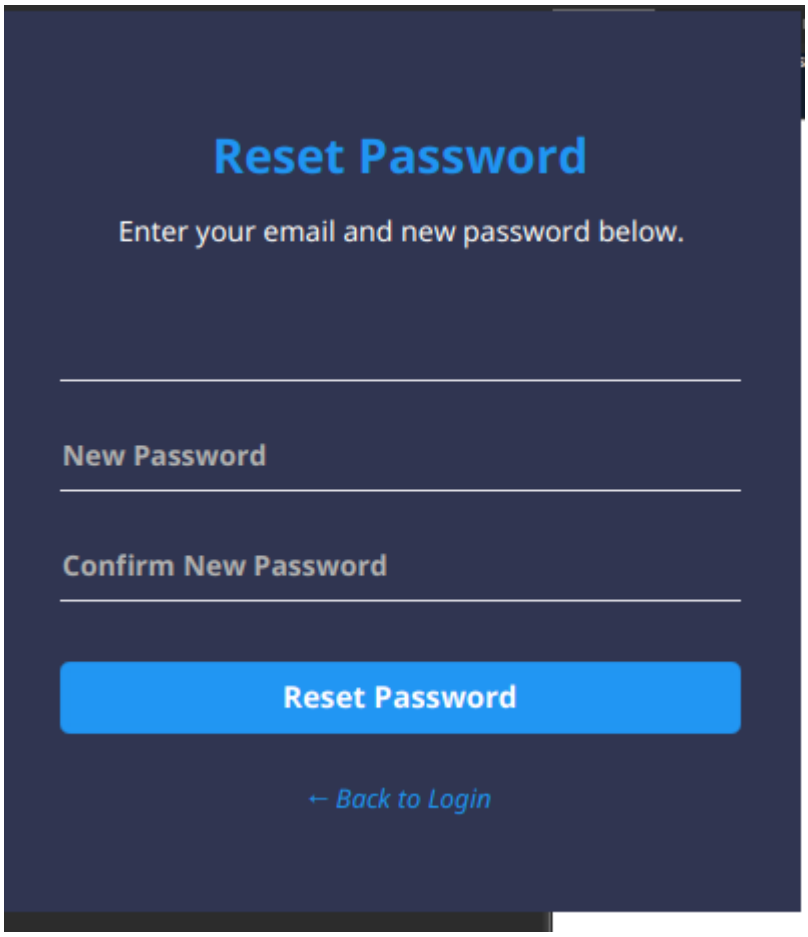
Main1.fxml

SignIn.fxml

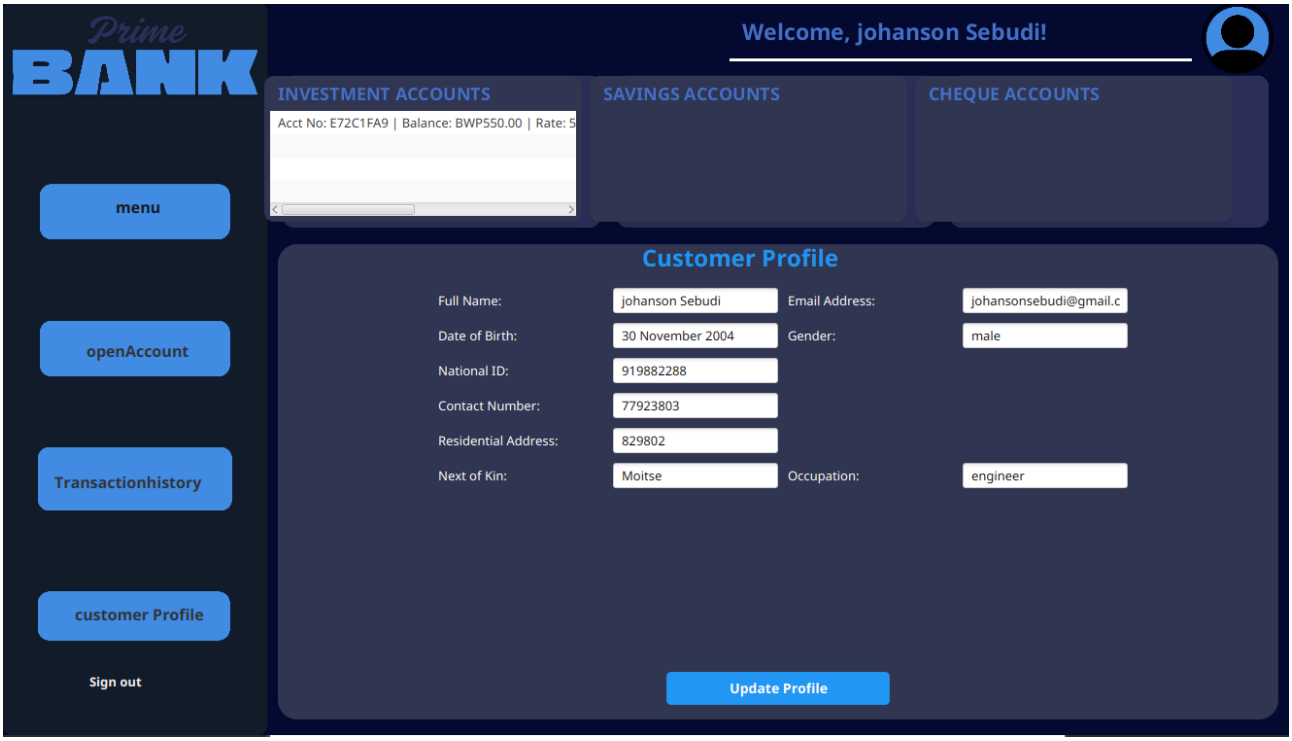
SignUp.fxml

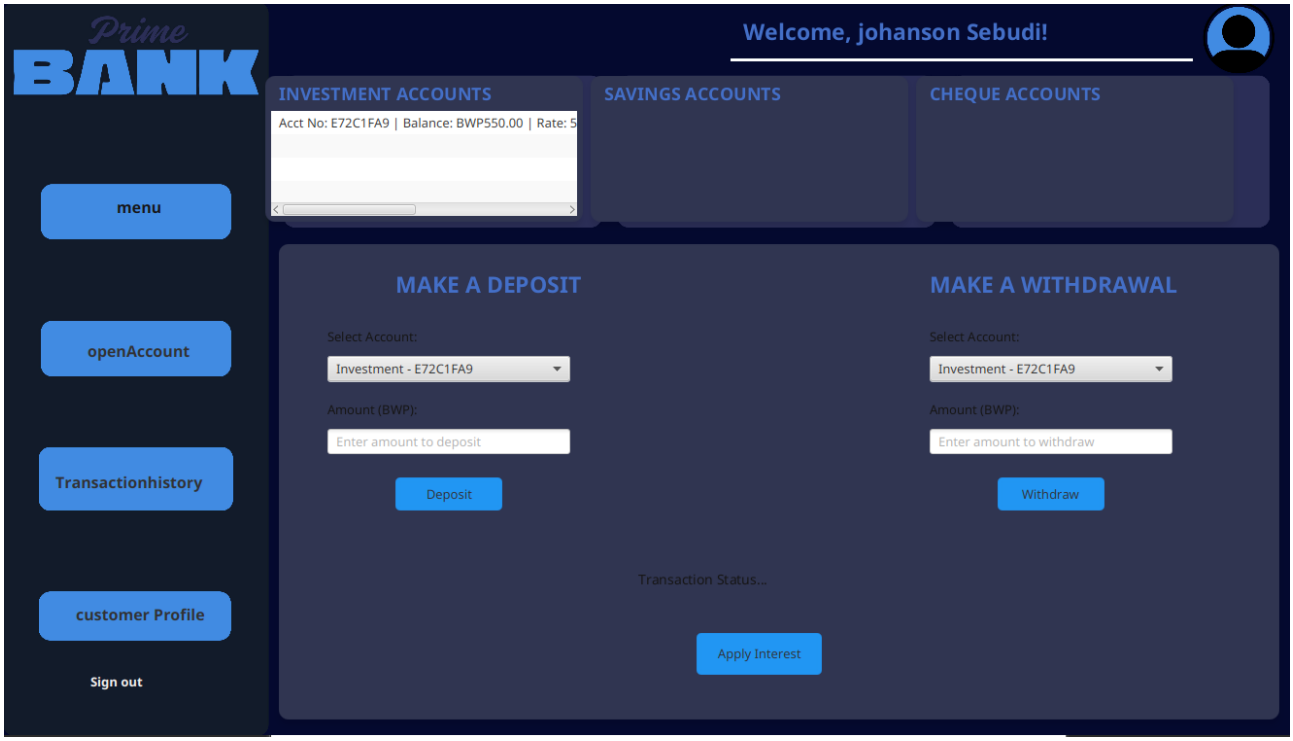





Reset Password
Enter your email and new password below.
New Password
Confirm New Password
Reset Password
← Back to Login

Dashboard.fxml, DashboardDetails.fxml, OpenAccount.fxml, CustomerProfile.fxml, TransactionHistory.fxml, ForgotPassword.fxml





All loaded via FXMLLoader and animated with MainController

ControllerLoginController, SignUpController, DashboardController, DashboardDetailsController, CustomerProfileController, OpenAccountController, TransactionController, ForgotPasswordControllerAll

@FXML injected, event handlers working, data passed correctlyCore

ModelUser, Customer (abstract), IndividualCustomer, CompanyCustomer, Account (abstract), SavingsAccount, ChequeAccount, InvestmentAccount, Transaction, Withdrawal interface, InterestCalculation interfaceFull inheritance, polymorphism, composition

Data Access (JDBC)DBConnection (users.db), CustomerDBConnection (customer.db), UserDAO + Impl, CustomerDAO + Impl, AccountDAO + ImplTables auto-created, CRUD operations functional, transactions recorded

Cross-database linkin is achieved: after login, CustomerDAO.findByUserId(user.getId()) correctly loads the customer profile from customer.db.

wo separate SQLite databases (users.db and customer.db) are correctly linked via user_id, secure password hashing is in place, and every OOP principle has been applied.