



## FLM BANKING APPLICATION USE CASE

### FLM Bank Application Initialization:

- Upon starting the application, an ASCII art banner titled "FLM Bank" is displayed.
  - Function responsible: bannerPrinting from banner\_printing.java

### Main Menu Operations:

#### 1. Account Registration:

- Users wishing to register are prompted to enter their personal details.
  - Function responsible: accountCreation from user\_service.java
- The application validates the entered details using various functions.
  - Function references: Multiple validation functions from validations.java
- Validated details are then saved into the application's database.
  - Function responsible: insert\_data from db\_operations.java
- To verify the user's email address, an OTP is sent for confirmation.
  - Function responsible: mailOtpVerification from mail\_operations.java
- The user must verify the OTP before proceeding.

#### 2. Account Login:

- Existing users can log in by entering their registered email.
  - Function responsible: login (within app.java)

#### Upon Successful Login:

- Users gain access to various banking services, including:
  - Displaying Account Balance: Users can view the current balance in their account.
    - Function responsible: displayBalance from banking\_service.java
  - Depositing Money: Users can add funds to their account.
    - Function responsible: depositMoney from banking\_service.java
  - Withdrawing Money: Users can deduct funds from their account.



- Function responsible: withdrawMoney from banking\_service.java
- Transferring Money: Users can send funds to another registered user.
  - Function responsible: transferMoney from banking\_service.java
- Viewing Transaction History: Users can review their past transactions.
  - Function responsible: transactionHistory from banking\_service.java
- Users can also choose to log out, taking them back to the main menu.

### 3. Forgot Password:

- Users who've forgotten their password can initiate the recovery process by entering their registered email.
- For additional security, they're prompted to enter their Date of Birth for verification.
- If the entered Date of Birth matches the database's records, an OTP is sent to the user's email for further verification.
  - Function responsible: mailOtpVerification from mail\_operations.java
- Upon successful OTP verification, users can reset their password. If the verification fails, users are redirected to the main menu.

### 4. Exit the Application:

- Users can choose to exit the application, upon which an exit banner is displayed, and the application terminates.
  - Function responsible: exit\_banner\_printing from banner\_printing.java