Banking Application Use Cases

UC1: New User Registration
- **Overview:** Allows a new user to register by providing their details and an initial deposit.
- **Related use cases:** UC8 (Admin Approve Account Creation Requests)
- **Actors:** New User
- **Pre Conditions:** None
- **Post Conditions:** New user account request is added to the account creation requests file.

UC2: Existing User Login
- **Overview:** Allows an existing user to log in using their credentials.
- **Related use cases:** UC3 (Withdraw), UC4 (Deposit), UC5 (View Transactions), UC6 (Display Balance), UC7 (Request Deletion), UC9 (Admin Login)
- **Actors:** User
- **Pre Conditions:** User must have an existing account.
- **Post Conditions:** User is logged into their account and shown the user menu.

UC3: Withdraw
- **Overview:** Allows a user to withdraw funds from their account.
- **Related use cases:** UC2 (Existing User Login)
- **Actors:** User
- **Pre Conditions:** User must be logged in and have sufficient balance.
- **Post Conditions:** Withdrawal is recorded in the user's transaction history and balance is updated.

UC4: Deposit
- **Overview:** Allows a user to deposit funds into their account.
- **Related use cases:** UC2 (Existing User Login)
- **Actors:** User
- **Pre Conditions:** User must be logged in.
- **Post Conditions:** Deposit is recorded in the user's transaction history and balance is updated.

UC5: View Transactions
- **Overview:** Allows a user to view their transaction history.
- **Related use cases:** UC2 (Existing User Login)
- **Actors:** User
- **Pre Conditions:** User must be logged in.
- **Post Conditions:** Transaction history is displayed to the user.

UC6: Display Balance
- **Overview:** Allows a user to view their current account balance.
- **Related use cases:** UC2 (Existing User Login)
- **Actors:** User
- **Pre Conditions:** User must be logged in.
- **Post Conditions:** Current balance is displayed to the user.

UC7: Request Account Deletion
- **Overview:** Allows a user to request account deletion.
- **Related use cases:** UC2 (Existing User Login), UC10 (Admin Approve Account Deletion Requests)
- **Actors:** User
- **Pre Conditions:** User must be logged in.
- **Post Conditions:** Account deletion request is added to the account deletion requests file.

UC8: Admin Approve Account Creation Requests
- **Overview:** Allows an admin to approve new user account creation requests.
- **Related use cases:** UC1 (New User Registration), UC9 (Admin Login)
- **Actors:** Admin
- **Pre Conditions:** Admin must be logged in.
- **Post Conditions:** Approved account is added to the existing users file, and removed from the account creation requests file.

UC9: Admin Login
- **Overview:** Allows an admin to log in using their credentials.
- **Related use cases:** UC8 (Admin Approve Account Creation Requests), UC10 (Admin Approve Account Deletion Requests), UC11 (View All Accounts), UC12 (View Account Creation Requests), UC13 (View Account Deletion Requests)
- **Actors:** Admin
- **Pre Conditions:** Admin must have a valid account.
- **Post Conditions:** Admin is logged in and shown the admin menu.

UC10: Admin Approve Account Deletion Requests
- **Overview:** Allows an admin to approve user account deletion requests.
- **Related use cases:** UC7 (Request Account Deletion), UC9 (Admin Login)
- **Actors:** Admin
- **Pre Conditions:** Admin must be logged in.
- **Post Conditions:** Approved account is removed from the existing users file and removed from the account deletion requests file.

UC11: View All Accounts
- **Overview:** Allows an admin to view all existing user accounts.
- **Related use cases:** UC9 (Admin Login)

- **Actors:** Admin
- **Pre Conditions:** Admin must be logged in.
- **Post Conditions:** List of all existing accounts is displayed to the admin.

UC12: View Account Creation Requests
- **Overview:** Allows an admin to view all account creation requests.
- **Related use cases:** UC1 (New User Registration), UC9 (Admin Login)
- **Actors:** Admin
- **Pre Conditions:** Admin must be logged in.
- **Post Conditions:** List of all account creation requests is displayed to the admin.

UC13: View Account Deletion Requests
- **Overview:** Allows an admin to view all account deletion requests.
- **Related use cases:** UC7 (Request Account Deletion), UC9 (Admin Login)
- **Actors:** Admin
- **Pre Conditions:** Admin must be logged in.
- **Post Conditions:** List of all account deletion requests is displayed to the admin.