

Banking System Phase 2

Group 6 Developers

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USE CASES

1. Login to the bank system or ATM
2. Creating an account
3. Updating an account
4. Closing an account
5. Deposits
6. Withdrawals
7. Transfers



Actors

Primary Actors:

1. Client/ User
2. Teller

Supporting Actors:

1. ATM
2. Banking System

USE CASE Specification Example

Use Case ID: 001

Use Case Name: Login to the Bank system or ATM

Requirements:

Primary Actors: User (can be a Teller or a customer)

Pre-conditions:

The user has an active account with the banking system.

The user has valid login credentials (username and password).

Post-conditions:

Users are granted access based on authentication success.

Basic Flow:

Users provide a valid username and password.

The system verifies credentials against stored user profiles.

Upon successful authentication, the system grants access.

Extensions or Alternate Flows: Invalid credentials, authentication fails, the system denies access and logs attempts.



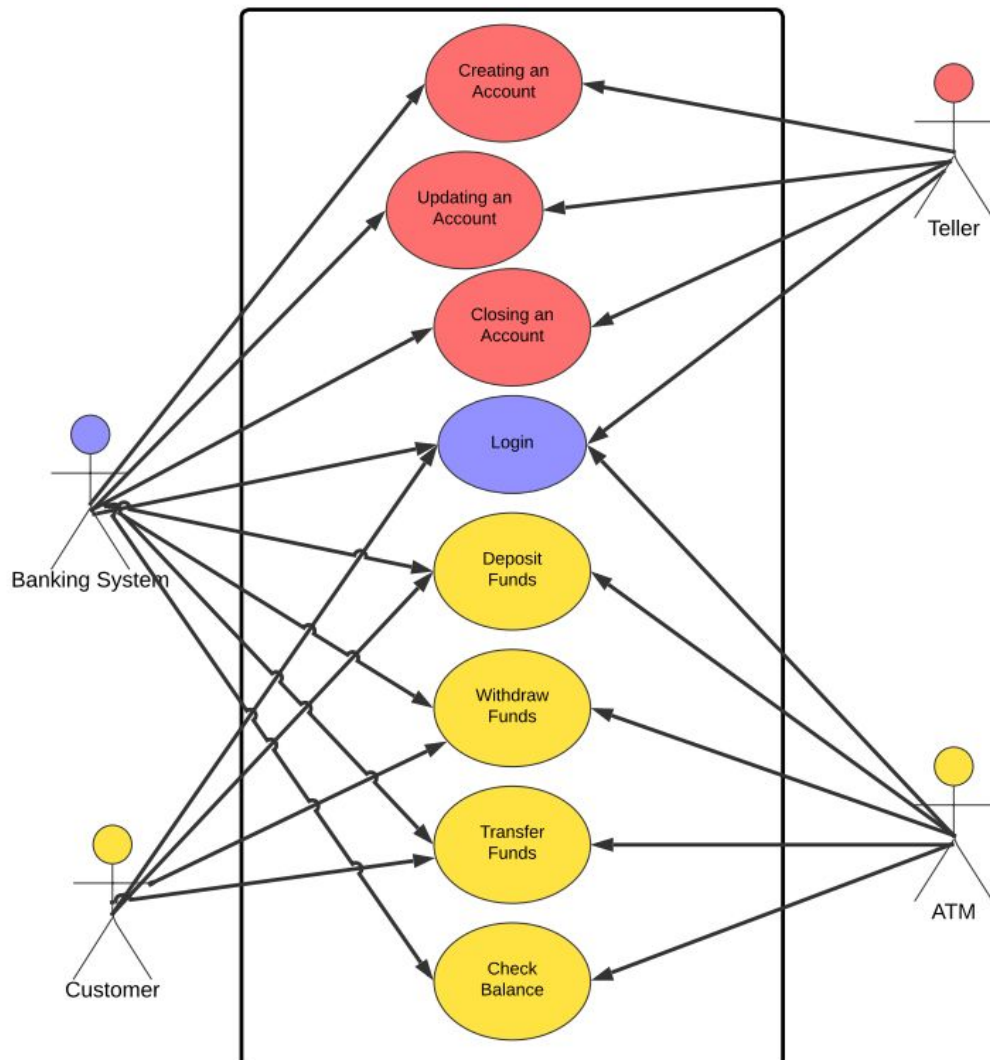
Use Case Diagram

Actors:

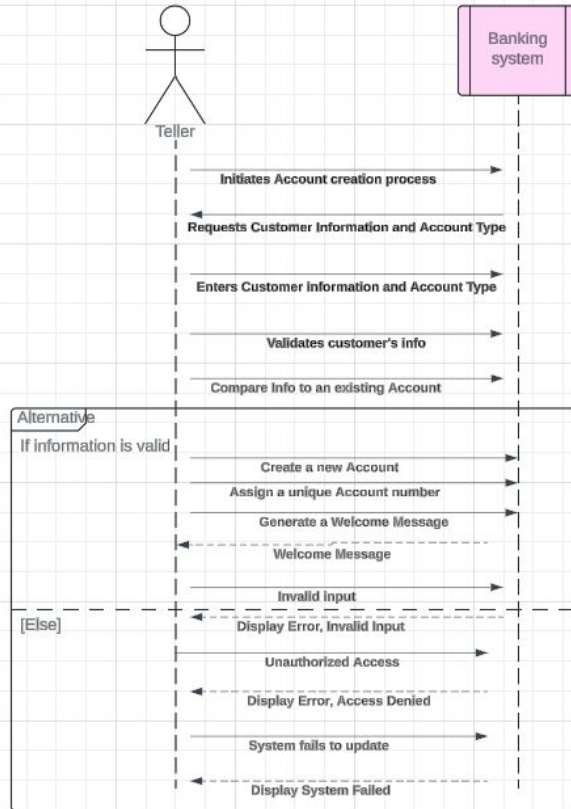
- Teller
- Customer
- ATM
- Banking System

Use Case:

- Eight total use cases



Use Case Example

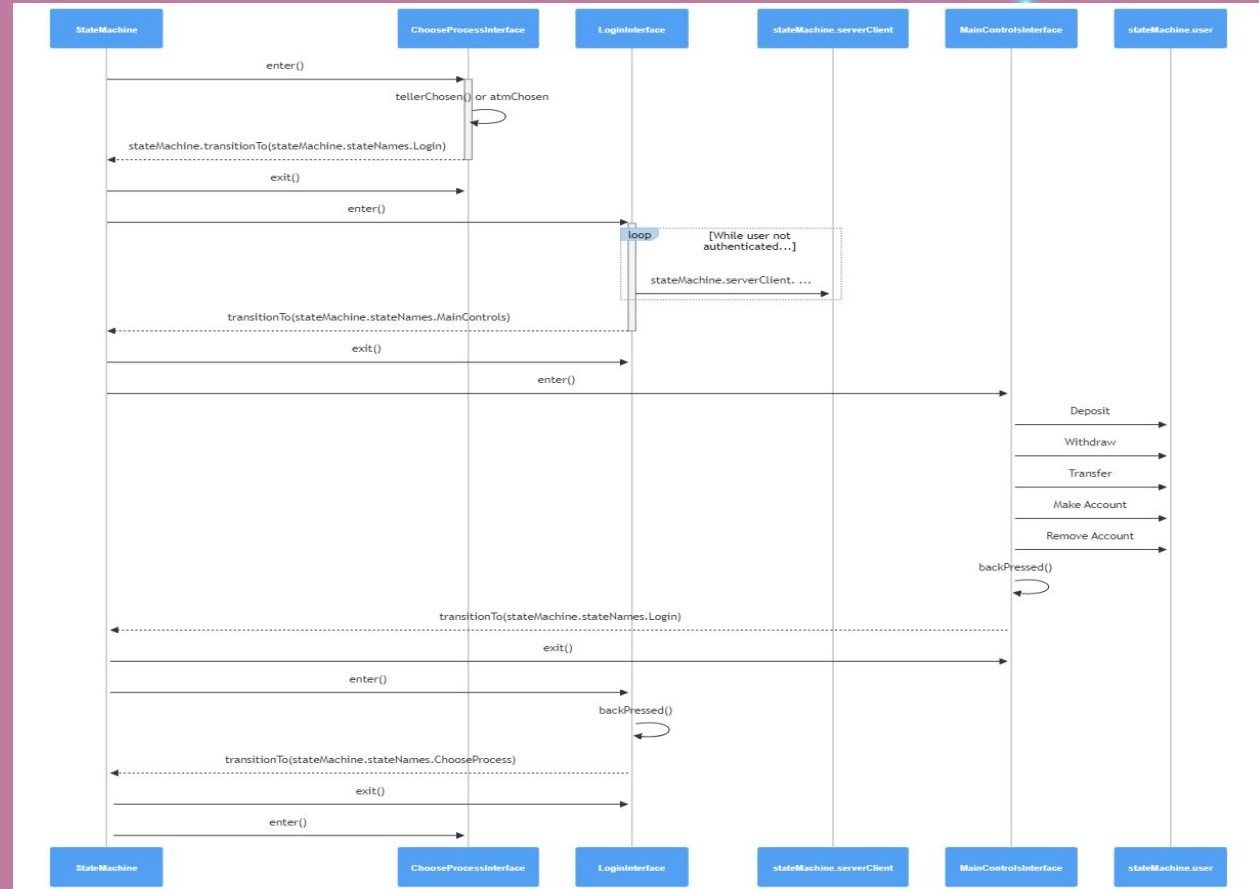


Creating an account use case / illustrating by using a sequence diagram

Primary Actor:
Teller

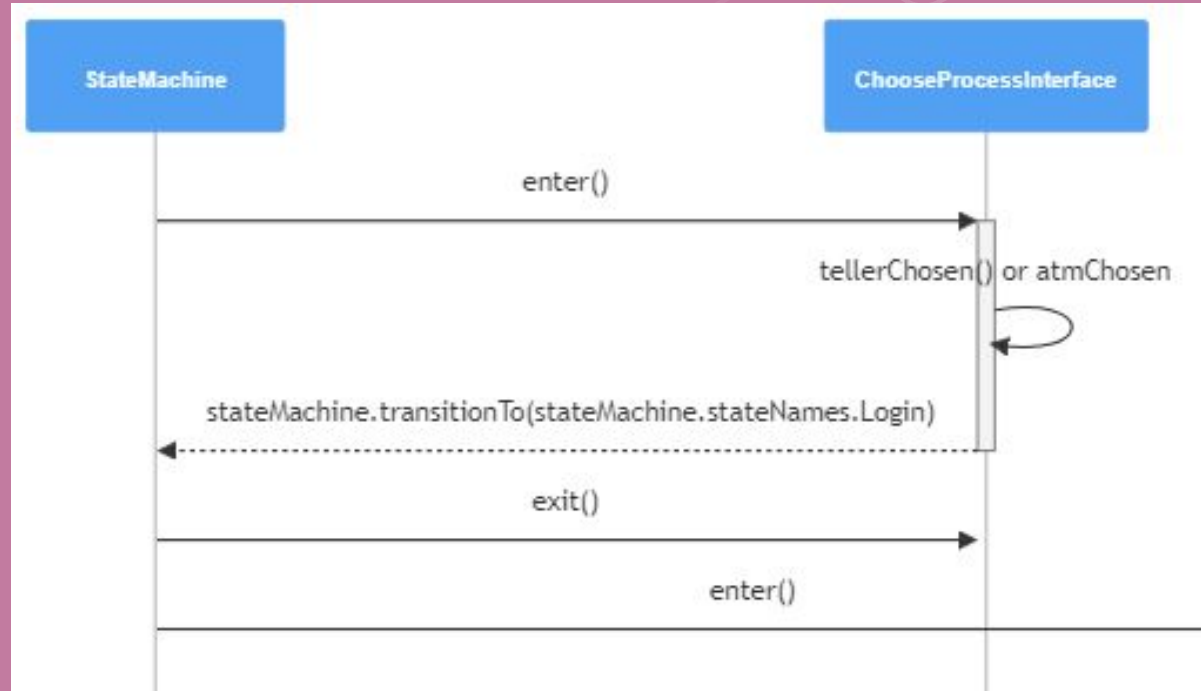
Supporting Actor:
Banking System

Sequence Diagram

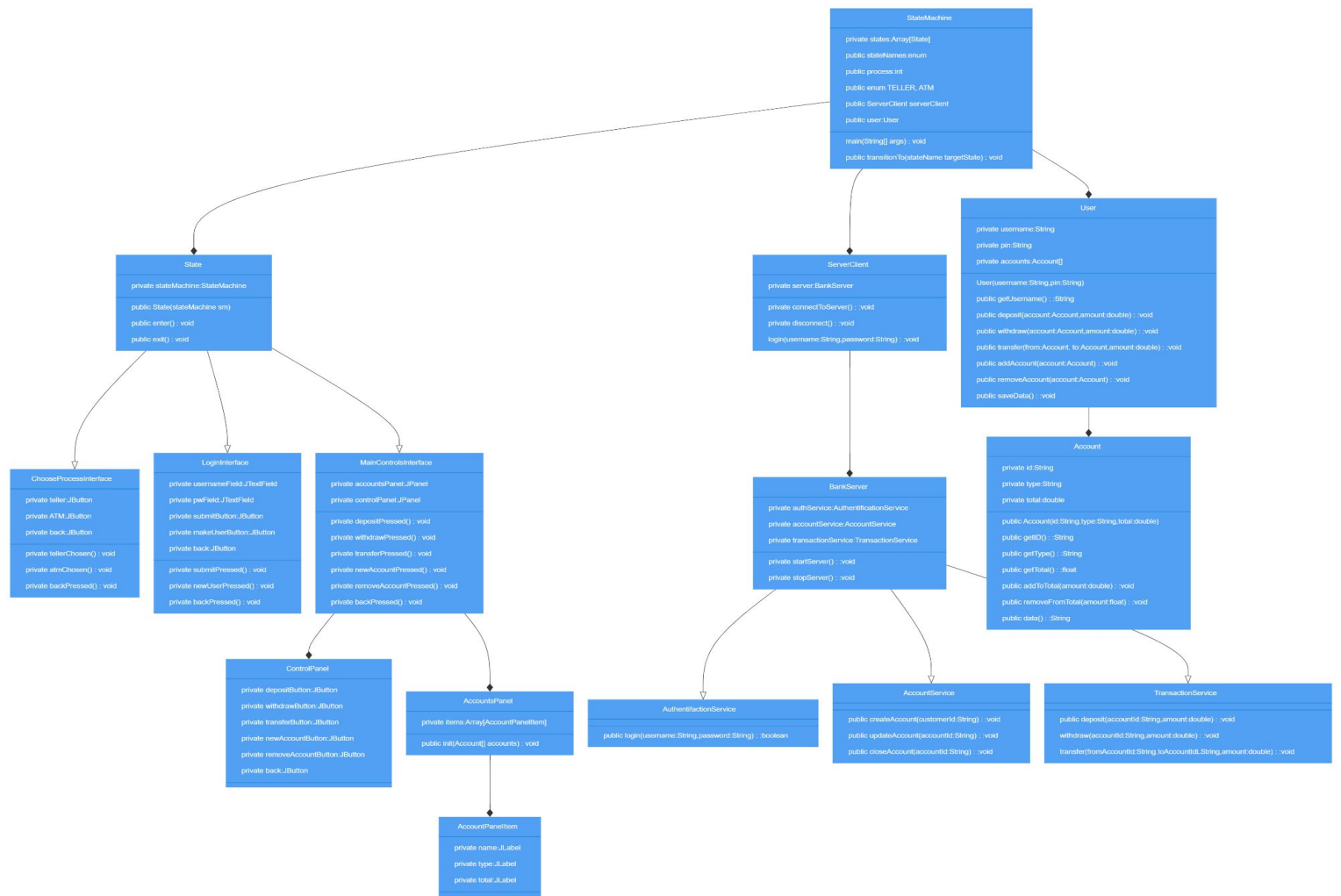


Sequence Diagram Example

- Finite State Machine - transitioning between states
- Each GUI element (choosing process, logging in user) is a state
- Certain actions (mostly button presses) tell state machine to transition to different GUI element
- Simplifies loading/unloading of respective elements



Class Diagram





Group Task and Workload Schedule

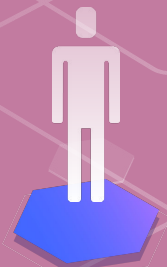
What's been done

Date	Description	Author
3/14/2024	Use Case Diagram	Kebron Afework
3/17/2024	Overarching Class Diagram	Abdoul Camara
3/19/2024	User Account Module Class Diagram	Mateo Tolentino
3/19/2024	Overarching Class Diagram	Nico Savaides
3/21/2024	State Machine Class, Overarching Class Diagram, Sequence Diagram	Justin Dodemaide
3/21/2024	Use Cases, Use Case Diagram, Sequence Diagram, Worked on Slides	Abdoul Camara
3/22/2024	Sequence Diagram, Overarching Class Diagram, Worked on Slides	Mateo Tolentino
3/26/2024	Gantt Chart, Worked on Slides	Nico Savaides
3/26/2024	Worked on Slides, Gantt Chart	Kebron Afework

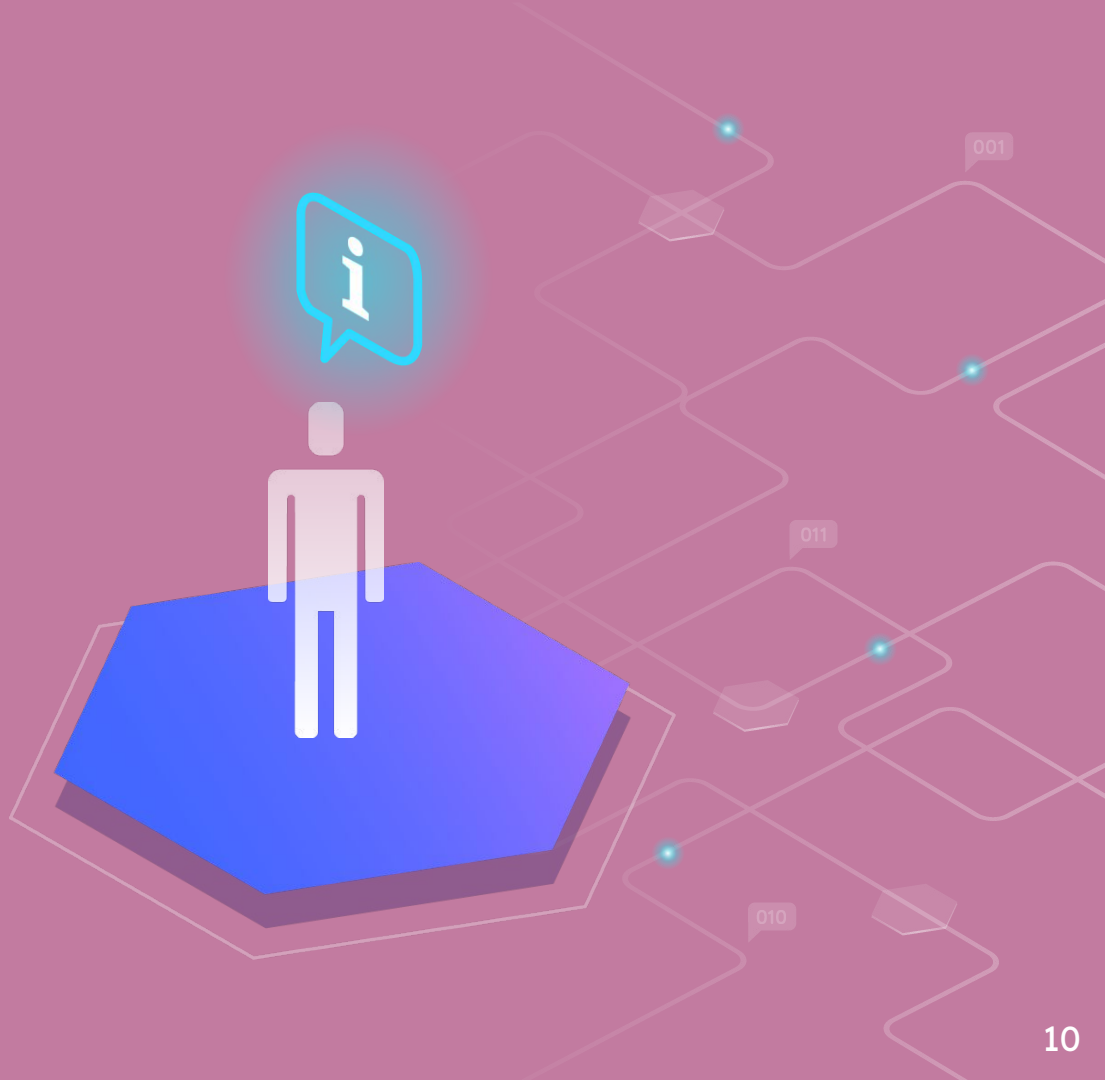
Looking forward

Implementation phase
coding obligations:

State Machine (Justin)
Account/User Class (Kebron)
Server/Client Class (Nico)
GUI (Mateo)
Transaction Class (Abdoul)



Thank You!



Any questions?