

PB007: Banking system

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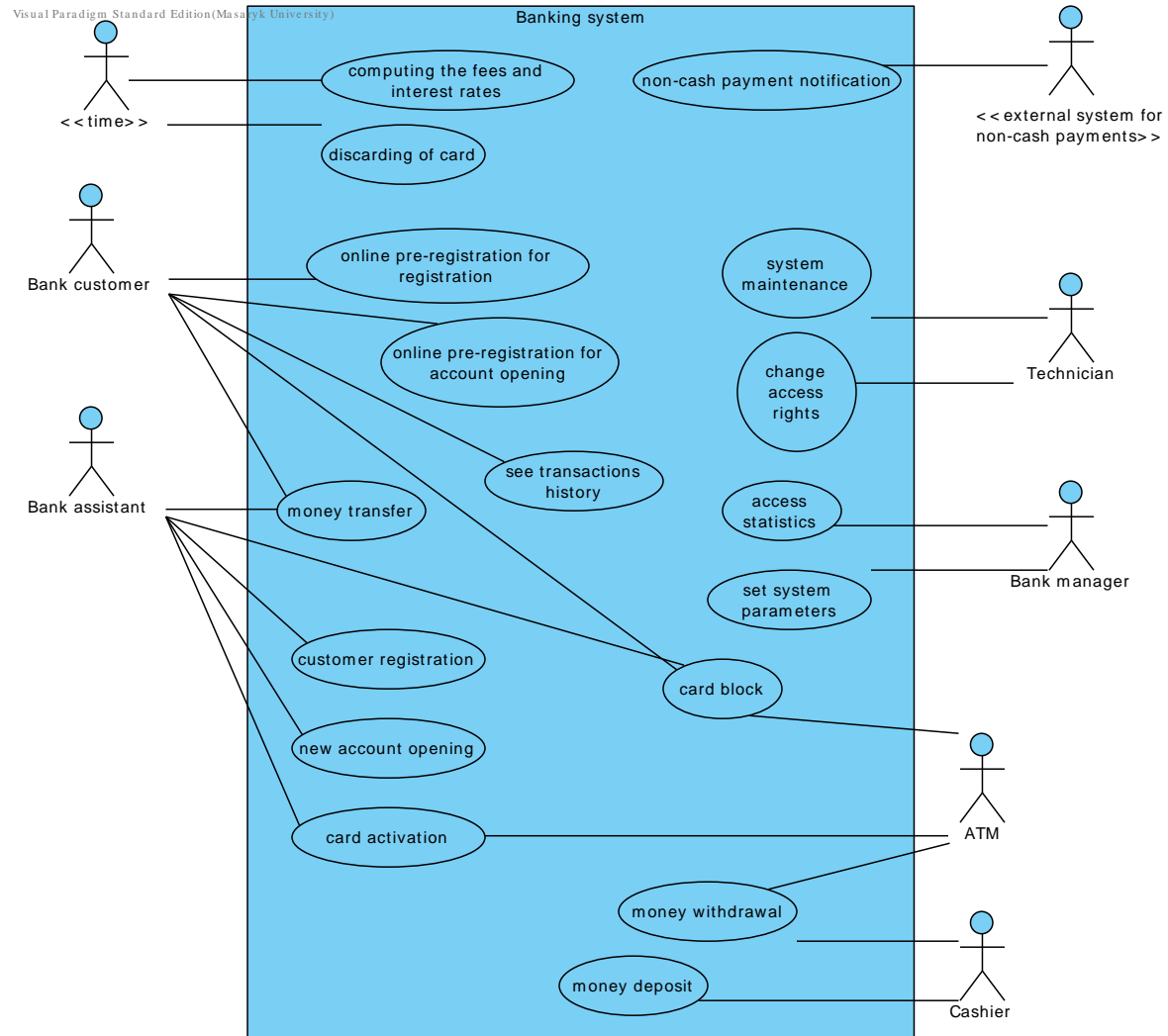
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Use Case Diagram

Use Case Diagram



Summary

Name	Documentation
Bank customer	
Bank assistant	
<<time>>	
ATM	
Cashier	
<<external system for non-cash payments>>	
Technician	
Bank manager	
see transactions history	

 set system parameters	
 access statistics	
 change access rights	
 system maintenance	
 non-cash payment notification	
 discarding of card	
 computing the fees and interest rates	
 money withdrawal	
 money deposit	
 card activation	
 new account opening	
 customer registration	
 card block	
 money transfer	
 online pre-registration for account opening	
 online pre-registration for registration	
 Banking system	

Documentation

Functional Requirements (F)

1. Bank customer
 - 1.1. Online pre-registration for registration
 - 1.2. Online pre-registration for account opening
 - 1.3. Money transfer
 - 1.3.1. Authorization
 - The authorization code can be entered at most three times (each time within 5 minutes from its delivery). If the code is entered three times unsuccessfully (wrong code or entered late), the whole transaction is canceled and the reserved money (for the transaction) is unblocked.
 - 1.4. See transactions history
 - 1.5. Card block
2. Bank manager
 - 2.1. Statistics (including future predictions)
 - 2.2. Set system parameters
 - 2.2.1. interest rates of savings accounts
 - 2.2.2. fees
3. Bank assistant
 - 3.1. Customer registration
 - 3.2. New account opening
 - 3.2.1. Checking account or savings account
 - 3.2.2. CZK or EUR
 - 3.3. Money transfer
 - 3.4. Card activation
 - 3.5. Card block

4. Cashier
 - 4.1. Money deposit
 - 4.2. Money withdrawal
5. External system for non-cash payments
 - 5.1. Non-cash payment notification
6. Time
 - 6.1. Computing the fees and interest rates
 - The computation is based on the priority of the customer, which is derived from how long the customer has been with the bank, and what has been the balance on his/her accounts in the past year.
 - 6.2. Discarding of card
7. ATM
 - 7.1. Card activation
 - 7.2. Money withdrawal
 - 7.3. Card block
8. Technician
 - 8.1. system maintenance
 - 8.2. change the access rights of other users
- 9.

Non-functional Requirements (N)

1. Java platform
2. reliability
 - 2.1. backup of all actions (1 year)
 - 2.2. backup of all transactions (10 years)
 - 2.3. accessibility of online banking system 24/7 (99.5% a year)
 - 2.4. accessibility of ATMs 24/7 (98%)
3. performance of the online banking system (scalable)
4. security
 - 4.1. authorization via SMS
 - 4.2. use HTTPS for online banking

Details ---

 **Bank customer**

 **Bank assistant**

 **<<time>>**

 **ATM**

 **Cashier**

 **<<external system for non-cash payments>>**



Technician




















Bank manager



see transactions history

- **set system parameters**
- **access statistics**
- **change access rights**
- **system maintenance**
- **non-cash payment notification**
- **discarding of card**
- **computing the fees and interest rates**
- **money withdrawal**
- **money deposit**
- **card activation**
- **new account opening**
- **customer registration**
- **card block**
- **money transfer**
- **online pre-registration for account opening**
- **online pre-registration for registration**
- 📁 **Banking system**

Children

Name	Documentation
 online pre-registration for registration	
 online pre-registration for account opening	
 money transfer	
 card block	
 customer registration	
 new account opening	
 card activation	
 money deposit	
 money withdrawal	
 computing the fees and interest rates	
 discarding of card	
 non-cash payment notification	
 system maintenance	
 change access rights	
 access statistics	
 set system parameters	
 see transactions history	