# CNIT 38000 – Advanced Systems Analysis & Design
## Assignment #6 – Activity Diagram (AD)
### Noah Zhou, Zhitian Wang, Jack Foreman – Fall 2024

**Submit Account Application**

| Potential Customer | Bank Manager | System |
|---|---|---|

Stages

Submits Account Application

Reviews Application

Are There Errors?

At fault

No fault

Reviews Application

Logs into System

Login failure

Login successful

Enters Account Information

Prompts for Account Information

Verifies Account Information

Requests Credit Report

Displays Credit Report

Process Applications

Approve an application

Reject an application

Generates Rejection Letter

Generates Account

# Credit Report Request

| Bank System | Credit bureau |
|---|---|
| Sends Credit Report Request | Processes Request |
| Provides additional information | Is information Complete? |
| Bank System Displays Credit Report | Credit Bureau Retrieves Credit Report |

Resubmit Information

Incomplete information

Is information Complete?

Complete Information

## Generate Previous Day Withdrawal Deposit Activity Report

| Bank Manager | Bank System |
|---|---|

Logs into bank system

Selects option to generate previous day account activity report

Retrieves account activity data for all customer accounts

Compiles data into report, organized by type of transaction

**Report Generation**

Successful Generation

Unsuccessful Generation

Displays report to bank manager

Displays error to bank manager

Reviews Report

**Generate Previous Day Account Activity Report**

| Bank Manager | Bank System |
|---|---|
| Logs into bank system | |
| Selects option to generate previous day account activity report | Retrieves account activity data for all customer accounts |
| | Compiles data into report, organized by type of transaction |
| | Report Generation |
| | Successful Generation — Displays report to bank manager |
| | Unsuccessful Generation — Displays error to bank manager |
| Reviews Report | |

# Checking Account Actions

| Customer | Bank System |
|---|---|
| Logs into bank system | Displays actions that can be performed |

**Action Selected**

| Customer | Bank System |
|---|---|
| Selects Account Inquiry | Displays account information |
| Selects Fund Deposit | Confirms deposit and updates balance |
| Selects Fund Withdrawal | Confirms withdrawal and updates balance |
| Selects Fund Transfer | Confirms transfer and updates balance |
| Selects Statement Request | Confirms request and generates statement |
| Selects Check Deposit | Confirms deposit and updates balance |
| | Notifies customer if there are issues |

**Finish Transaction**

## Savings Account Actions

| Customer | Bank System |
|---|---|
| Logs into bank system | Displays actions that can be performed |

**Action Selected**

| Customer | Bank System |
|---|---|
| Selects Account Inquiry | Displays account information |
| Selects Fund Deposit | Confirms deposit and updates balance |
| Selects Fund Withdrawal | Confirms withdrawal and updates balance |
| Selects Fund Transfer | Confirms transfer and updates balance |
| Selects Statement Request | Confirms request and generates statement |
| Selects Check Deposit | Confirms deposit and updates balance |
|  | Notifies customer if there are issues |

**Finish Transaction**