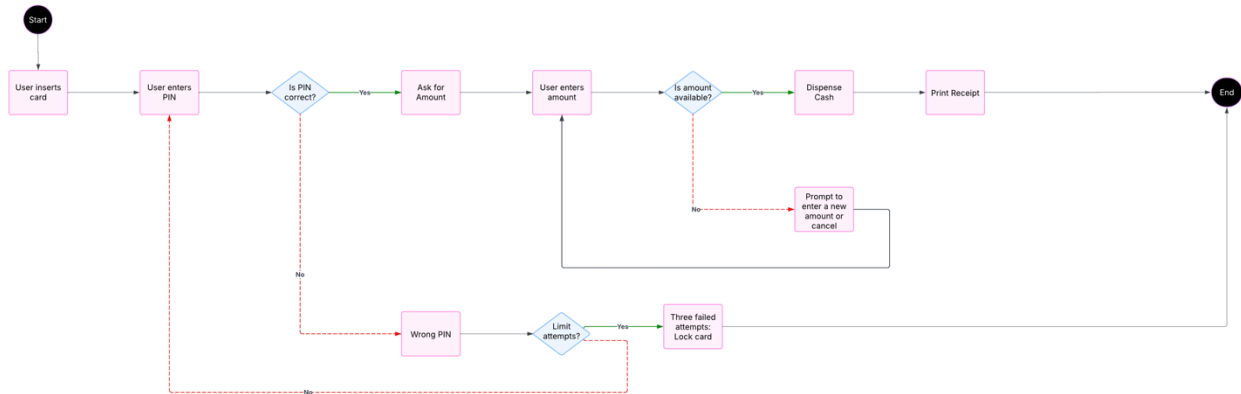Southern
New Hampshire
University
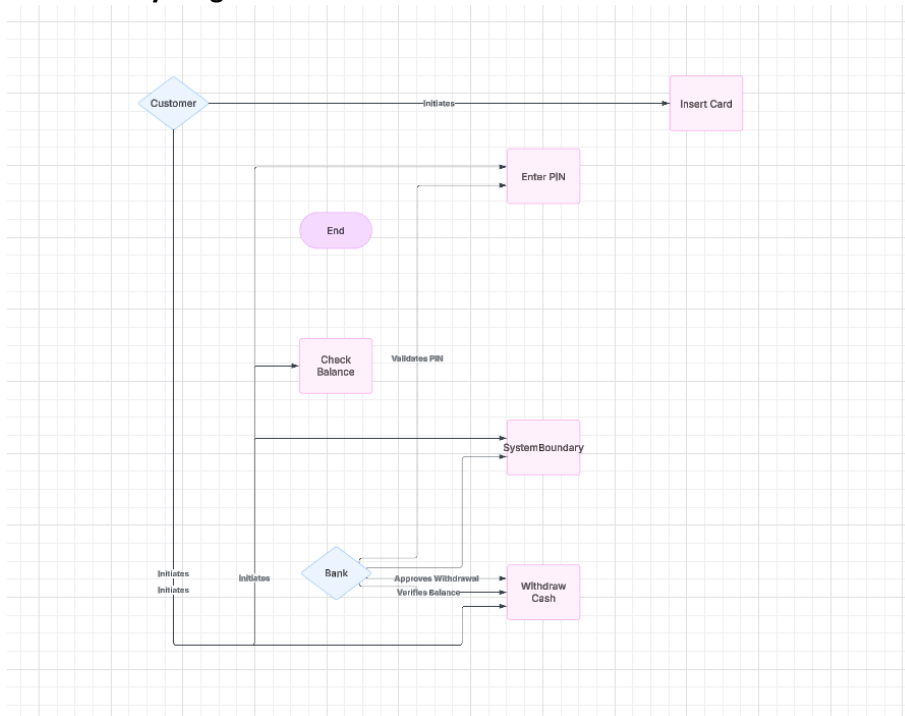
CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client's needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client's needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.
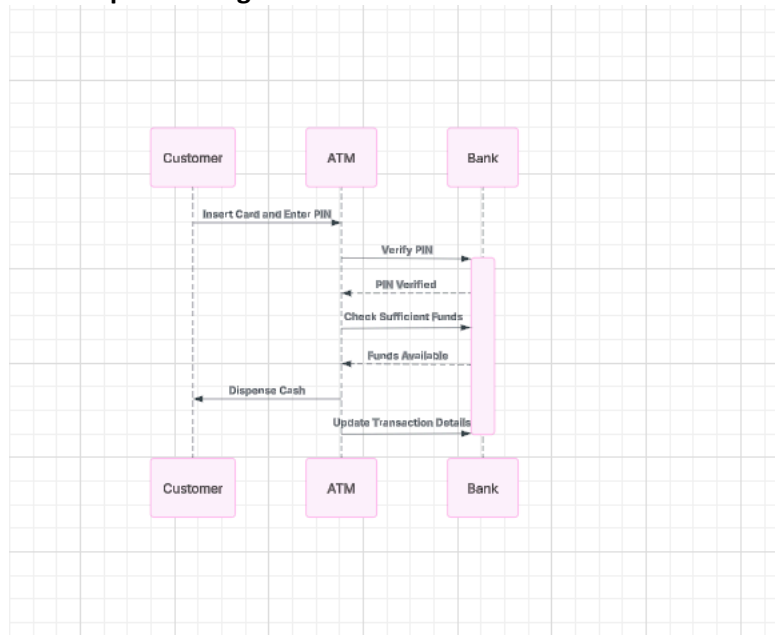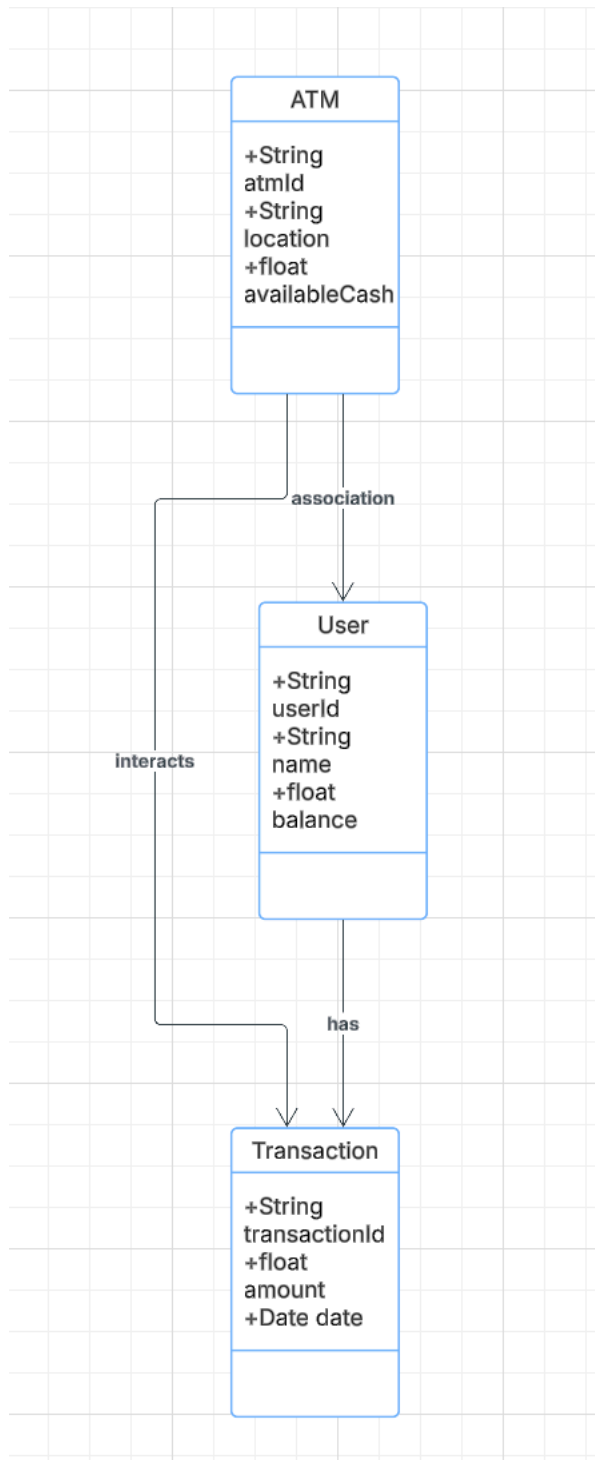
UML Diagrams

UML Use Case Diagram

UML Activity Diagrams

UML Sequence Diagram

UML Class Diagram

ATM

+String
atmId
+String
location
+float
availableCash

association

User

+String
userId
+String
name
+float
balance

interacts

has

Transaction

+String
transactionId
+float
amount
+Date date

Technical Requirements

The ATM system requires essential hardware components such as the card reader, PIN pad, cash dispenser, and receipt printer to operate effectively. It connects securely to the bank's system through a reliable network, which enables real-time transaction processing. The software running on the ATM is responsible for managing transactions while maintaining data security through encryption protocols. Tools such as Lucidchart are used to design and present system diagrams, and a database is utilized to store transaction records for accuracy and accountability. In addition, the system depends on a stable power supply and internet connection to ensure continuous and reliable operation.