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| Architecture  **DEGINS** | **ATM CONSOLE BASED APPLICATION** |

**Architecture Components:**

1. **Account Holder:** Represents the user of the ATM who interacts with the system by providing a user ID and PIN.
2. **Account:** Represents the individual bank account associated with an account holder. It stores account-related information such as balance and account details.
3. **Bank Transaction:** Represents a transaction (e.g., withdrawal, deposit, balance inquiry) that an account holder can perform at the ATM.
4. **Bank:** Represents the banking institution that holds multiple accounts and manages transactions.
5. **ATM:** Represents the physical Automated Teller Machine that users interact with to access their accounts and perform banking operations.

**Interactions:**

* The Account Holder interacts with the ATM by providing their User ID and PIN.
* If the authentication is successful, the Account Holder gains access to ATM functionalities.
* The ATM communicates with the Bank to access account information and perform transactions.
* The ATM interacts with the Account to retrieve account details, such as balance.
* Bank Transactions are used to record and process transactions initiated by the Account Holder.

**Architecture Diagram:**

**Bank**

**Bank Trasaction**

**Accounts**

**ATM**

**Account Holder**

**In this diagram:**

* **The user enters their User ID and PIN.**
* **Authentication is performed to verify the user's identity.**
* **Upon successful authentication, the user gains access to various ATM functions.**
* **The ATM functions interact with a database that stores information about Account Holders, Accounts, and Transactions.**
* **The bank manages the overall system and may provide additional services.**
* **The ATM Hardware provides the physical interfaces for the ATM's functionality, such as cash dispensing and card reading.**

**Key Performance Indicators (KPIs)**

**Key Performance Indicators (KPIs) would be tracked at various points in this system, such as transaction processing times, authentication success rates, ATM availability, and more. These KPIs would help monitor and improve the performance and reliability of the ATM system.**

Top of Form