**atm (aUTOMATED TELLER MACHINE) MAnaGEmENT sYSTEM**

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**Project Statement:**

In this project, I am targeting the development of an ATM (Automated Teller Machine) Management System.

The [ATM system](https://www.bankrate.com/glossary/a/atm/#:~:text=An%20ATM%2C%20which%20stands%20for,transactions%2C%20and%20even%20purchase%20stamps.) is specialized software that aids in managing a bank account or holder’s funds simply. Users can check account balances, make cash withdrawals or deposits, print a record of account activities or transactions, and even purchase stamps via the system.

Customers can utilize the [ATM system](https://www.investopedia.com/terms/a/atm.asp) to conduct self-service transactions such as deposits, cash withdrawals, bill payments, and account transfers. The bank where the account is stored, the ATM operator, or both, frequently levy cash withdrawal fees.

Now, development process of the system starts with System analysis. System analysis involves creating a formal model of the problem to be solved by understanding requirements. The business objectives of the system are mentioned below.

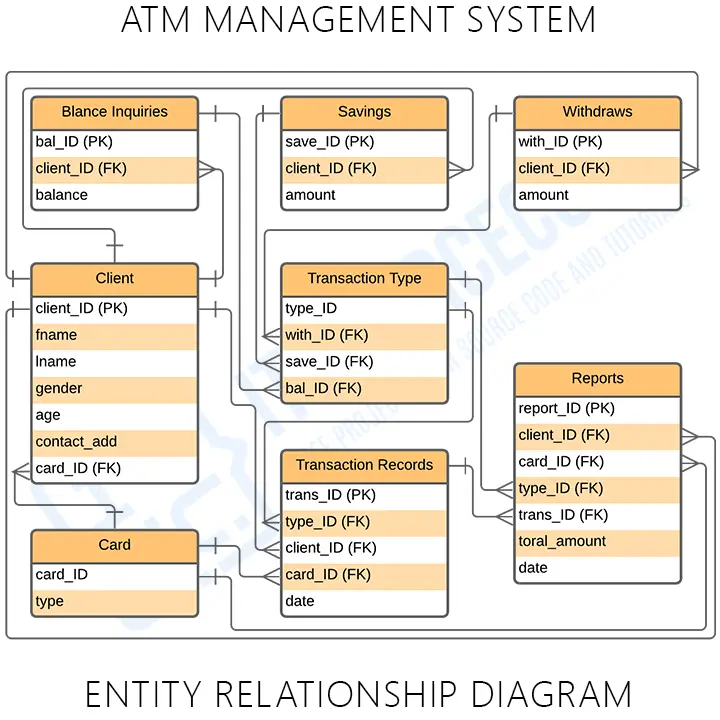
**Business Objectives:**

1. The Account holder (Client) can perform various transactions including cash withdrawal, balance inquiry, cash deposit etc.
2. The ATM machine itself generates reports for each activity and transaction.
3. The bank staff can access the ATM machine and make updates or troubleshoot the problems accordingly. Some of the features of my project are

Features:

* **ATM Machine Management** – ATM management can keep track of the status and the transactions in the devices. It can also assist and help manage cash more efficiently, evaluate transaction data, spot potential fraud, keep track of transactions, and coordinate servicing.
* **Customer Management**– This feature aids banks in managing clients and better understanding their demands so that the proper solutions can be provided swiftly. This also enables the bank to identify, segment, communicate with, and create long-term relationships with clients on a per-customer basis.
* **Manage Reports**– This reports management will help the bank admin to have the timely and relevant information which are needed for monitoring purposes. It could also help in tracing every transaction done in the system. Managing the Reports will provide security to the valuable information that may be used to generate future projections and improve customer services.
* **Manage Customer Transactions** – Customer transactions management is in charge of creating and associating transaction activities up-to-date. This feature will also help the admin when there are issues on the customers’ side and ensure the given cards were all working.
* **Transaction and Reports Management**– This feature will store the transactions made by the customers including their information and the reports of every transaction and timetable.

**ERD Diagram:**

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