

DMDD PROJECT

Electronic Benefit Transfer Card

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PROBLEM STATEMENT

- The EBT (Electronic Benefit Transfer) Card is similar to a **debit card** where the **Government** issues it to underprivileged people when their income is under a specific threshold.
- **EBT Food** refers to the usage of the card to purchase cold meals in a particular business.
- **EBT Cash** refers to the ability to withdraw cash from an ATM.
- Alcoholic beverages and tobacco items are examples of products that are not eligible for EBT Food.
- Each month, the cardholder will get money from the government using taxpayer funds.
- The EBT card therefore needs a **Database Management System** to support the daily transactions.

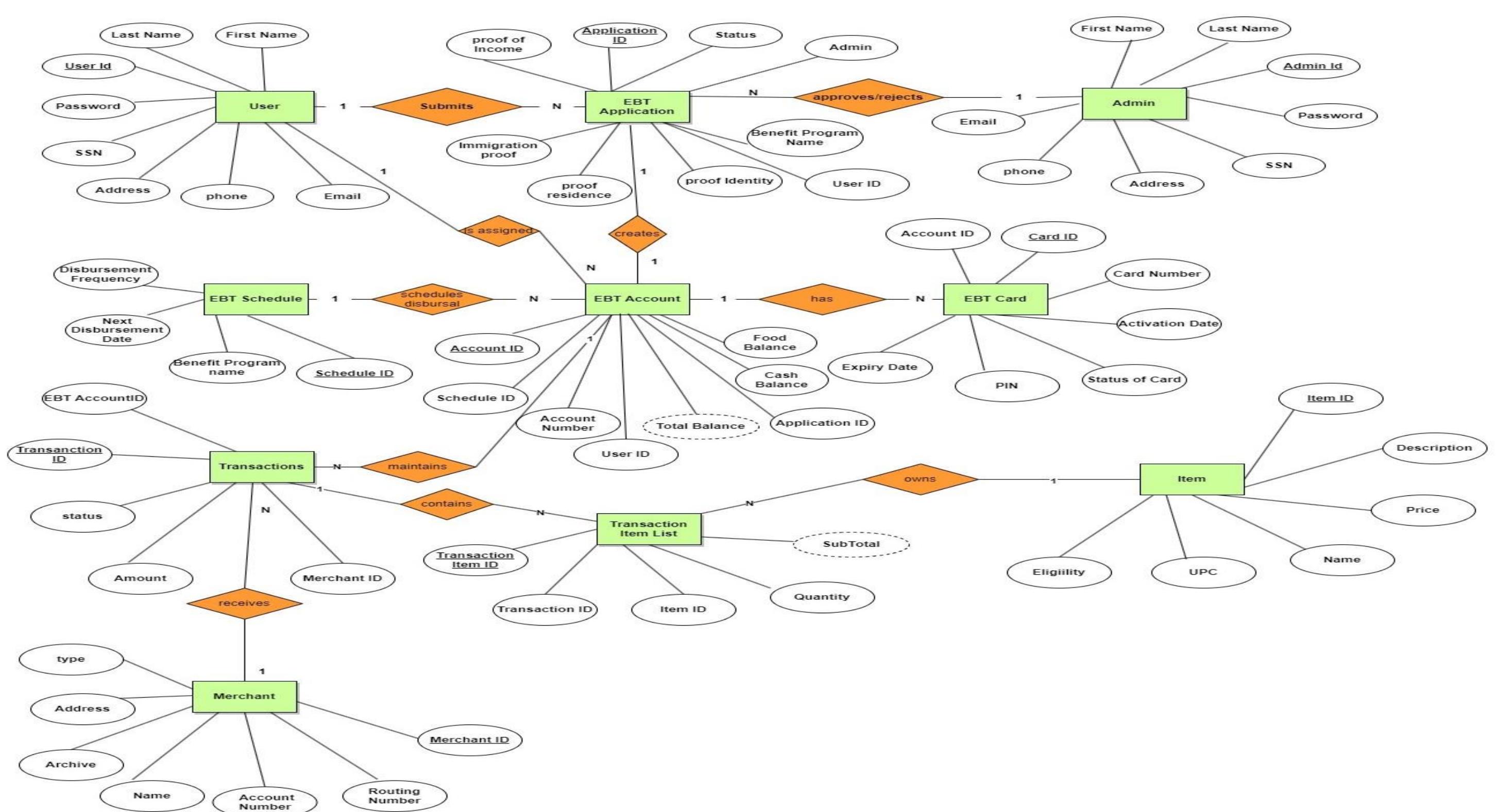
OBJECTIVE

The main objective is to create a database transaction management system for the EBT Card application.

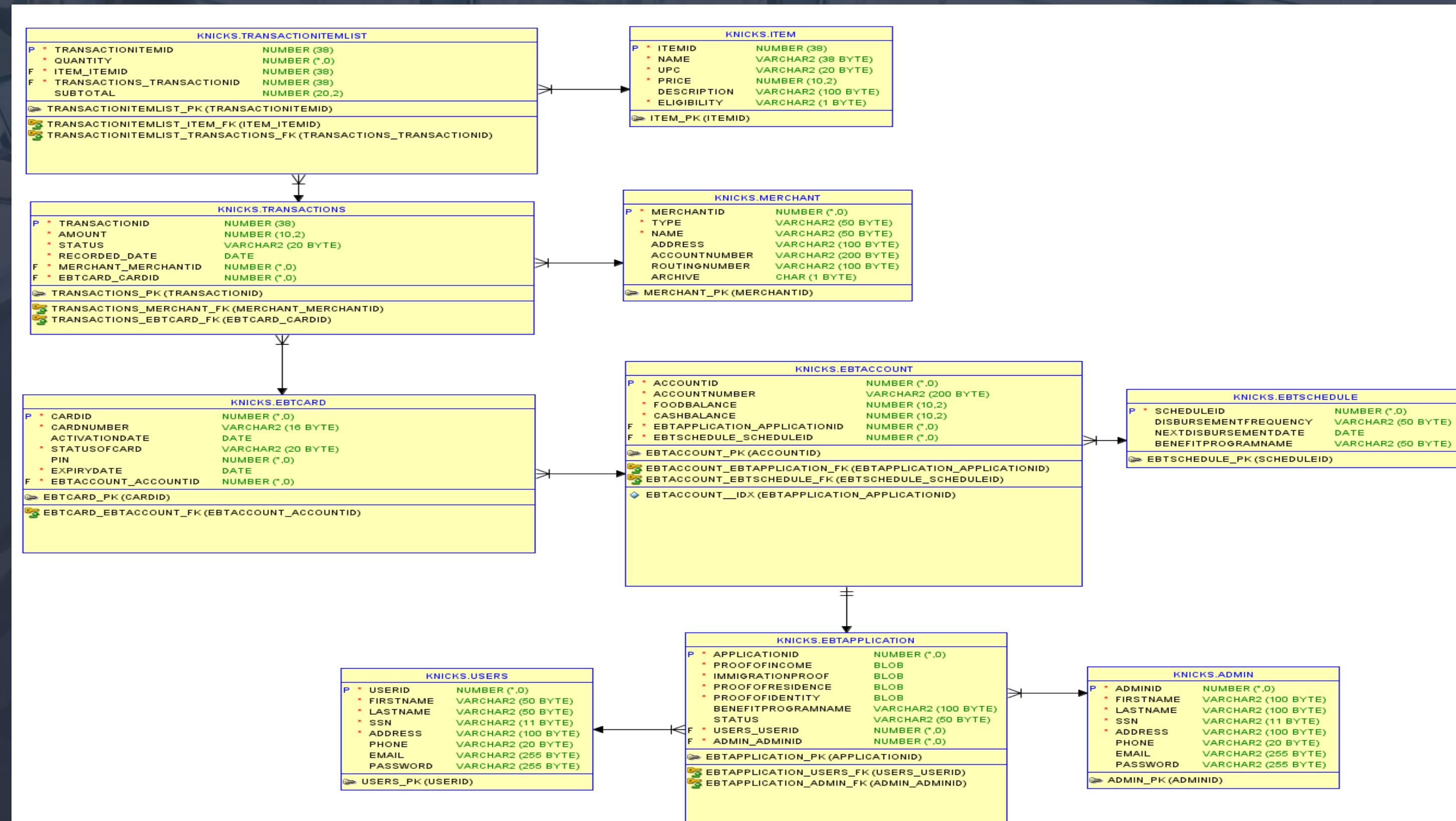
- To list **daily transactions to Customers** at product level.
- To list **frequency of items/products** bought , to Merchants and Government.
- To enhance data management by using a relational database.
- To reduce **redundancy** and maintain **data integrity** through normalization.
- To construct a reliable data model for the EBT Card application.
- To create the planned relational database in the Oracle Cloud database.
- To maintain the transactions with security and user-specific roles.



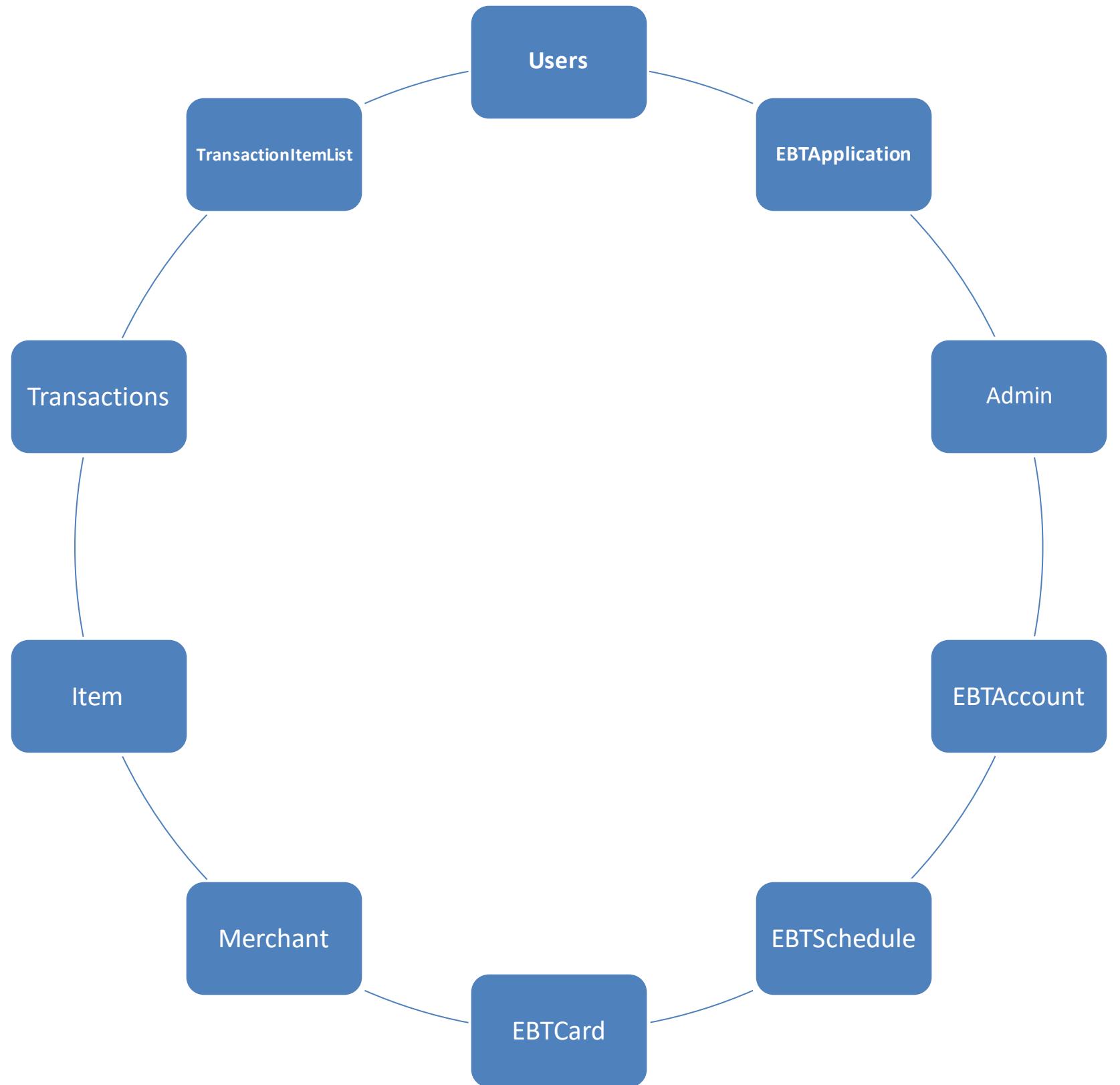
ER DIAGRAM



RELATIONAL MODEL



DATABASE TABLES



DATABASE VIEWS AND REPORTS

ACTIVEEBTACCOUNTS
APPROVED_TRANSACTIONS_VIEW
FAILED_TRANSACTIONS_VIEW
MERCHANT_TRANSACTION_DETAILS
ELIGIBLE_ITEMS_VIEW
ACTIVE_MERCHANTS_VIEW
INACTIVE_MERCHANTS_VIEW
EBTACCOUNT_BALANCE_VIEW
CUST_FOOD_VS_CASH_VIEW
TRANSACTION_SUMMARY_VIEW
ITEM_QTY_VS_AMOUNT_VIEW
COUNT_SUCCESS_FAIL_TRANSACTION_V
IEW
PENDING_EBT_APPLICATIONS_VIEW
MONTHLY_APPLICATION_COUNTS
AGE_VIEW

CARD_STATUS_COUNTS
VIEW_ADMIN
VIEW_EBTACCOUNT
VIEW_EBTCARD
VIEW_EBTSCHEDULE
VIEW_ITEM
VIEW_EBTAPPLICATION
VIEW_MERCHANT
VIEW_USERS
VIEW_TRANSACTIONITEMLIST
VIEW_TRANSACTIONS

TRIGGERS

LOW BALANCE
ALERT TRIGGER

CREATE ACCOUNT
AND CARD

UPDATE
ACCOUNTS ON
DISBURSEMENT
DATE UPDATE



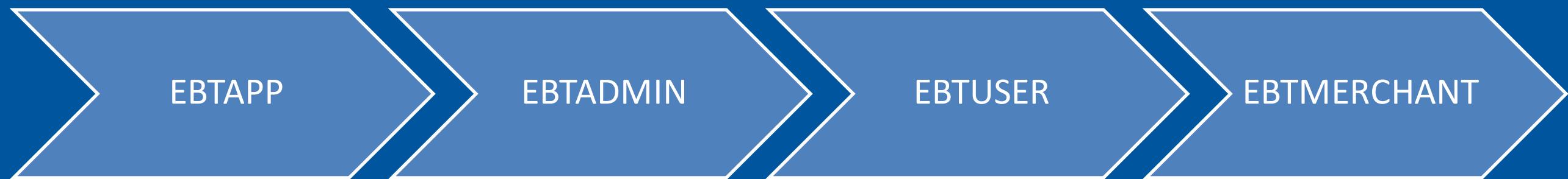
PROCEDURES

- ADDEBTACCOUNT
- ADDEBTCARD
- ADDEBTSCHEDULE
- BLOCKORUNBLOCKCARD
- CREATEPIN
- RESETPIN
- LOSTCARDANDDISABLE
- UPDATENEXTDISBURSEMENTDATE
- MARKACCOUNTANDCARDINACTIVE
- ADDORUPDATEITEM
- ADDORUPDATEMERCHANT
- INITIATETRANSACTIONATSTORE
- INITIATETRANSACTIONATATM
- INSERTADMIN
- ADMINLOGIN
- RESETADMINPASSWORD
- UPDATEADMINDETAILS
- INSERTUSER
- USERLOGIN
- RESETPASSWORD
- UPDATEUSERDETAILS
- CREATEEBTAPPLICATION
- UPDATEEBTAPPLICATIONSTATUS

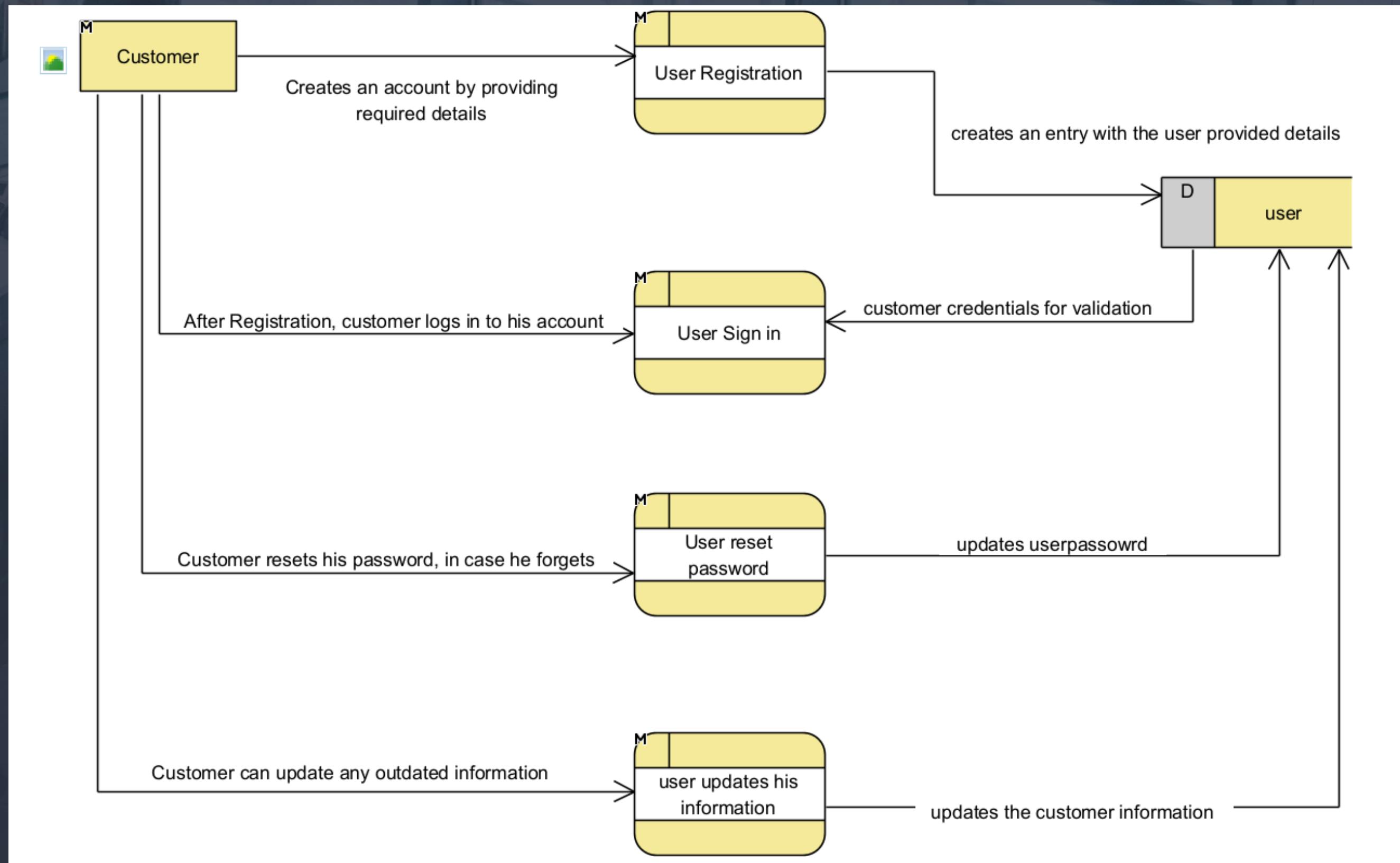
FUNCTIONS

- CHECKITEMEXISTENCE
- CHECKMERCHANTEXISTENCE
- CHECKUSERBALANCE
- CHECKSTORETRANSACTIONELIGIBILITY
- CHECKATMTRANSACTIONELIGIBILITY
- GETADMINIDFORASSIGNMENT
- GENERATEACCOUNTNUMBER
- GENERATECARDNUMBER

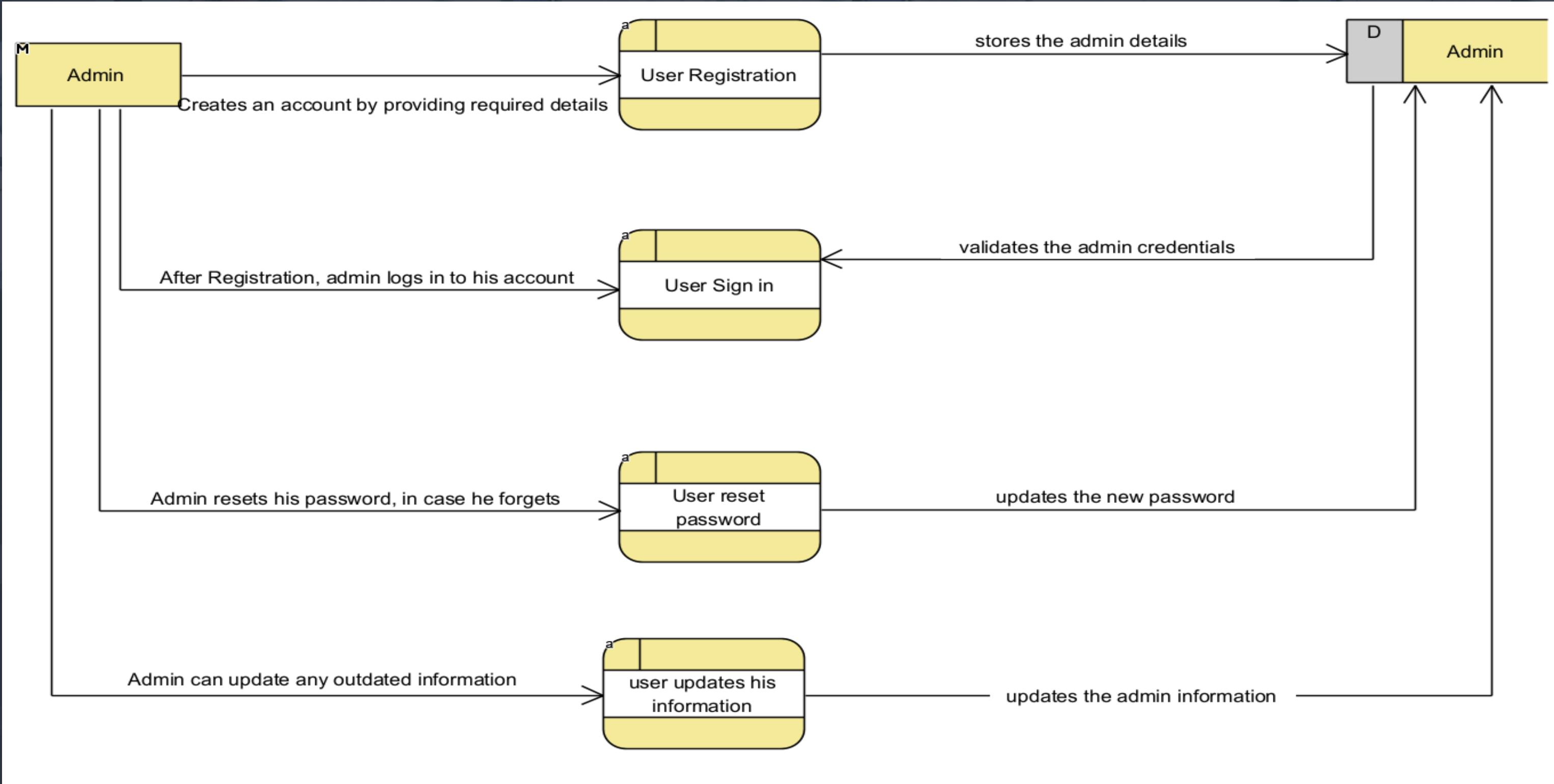
ROLES



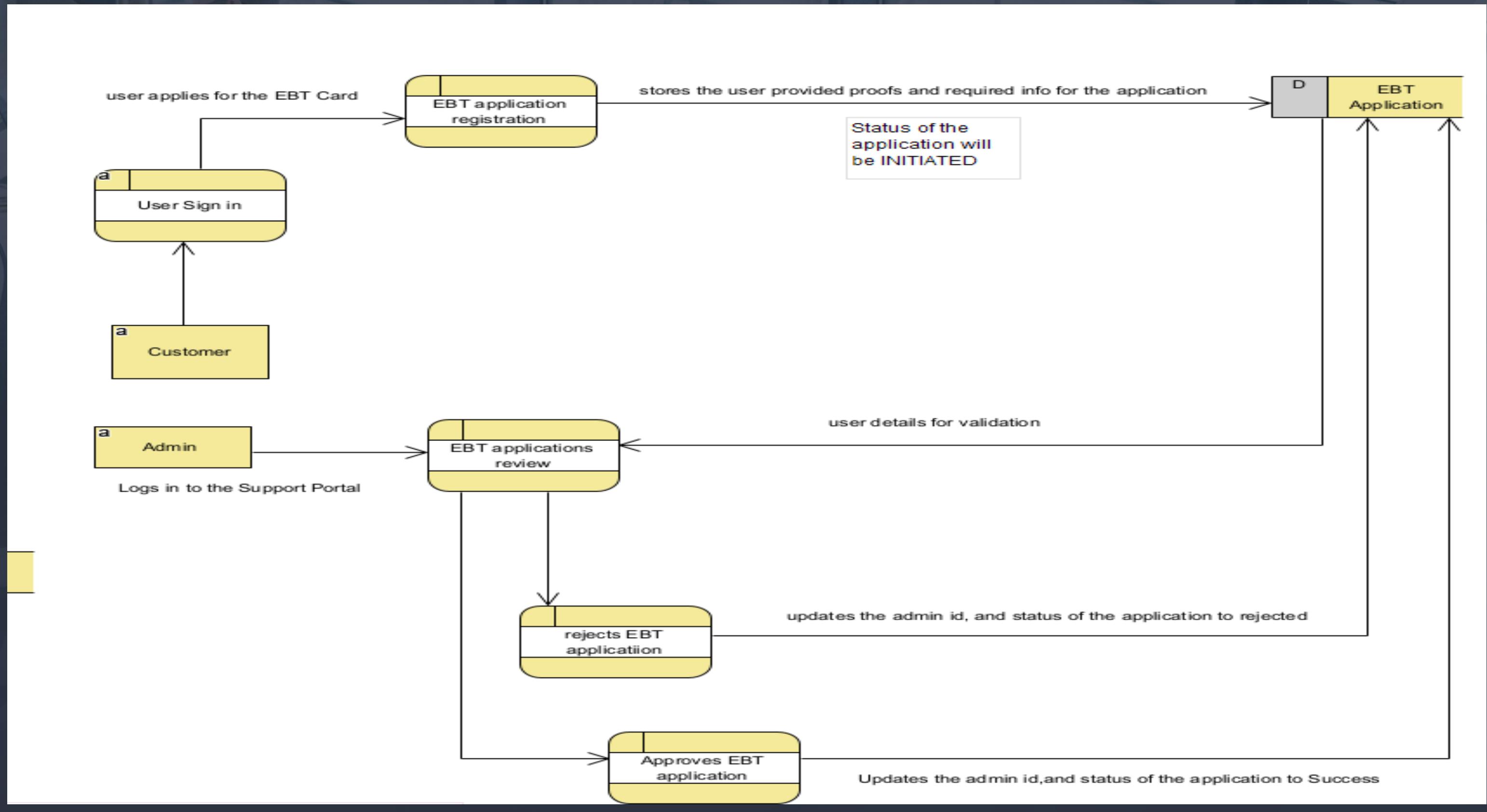
CUSTOMER REGISTRATION



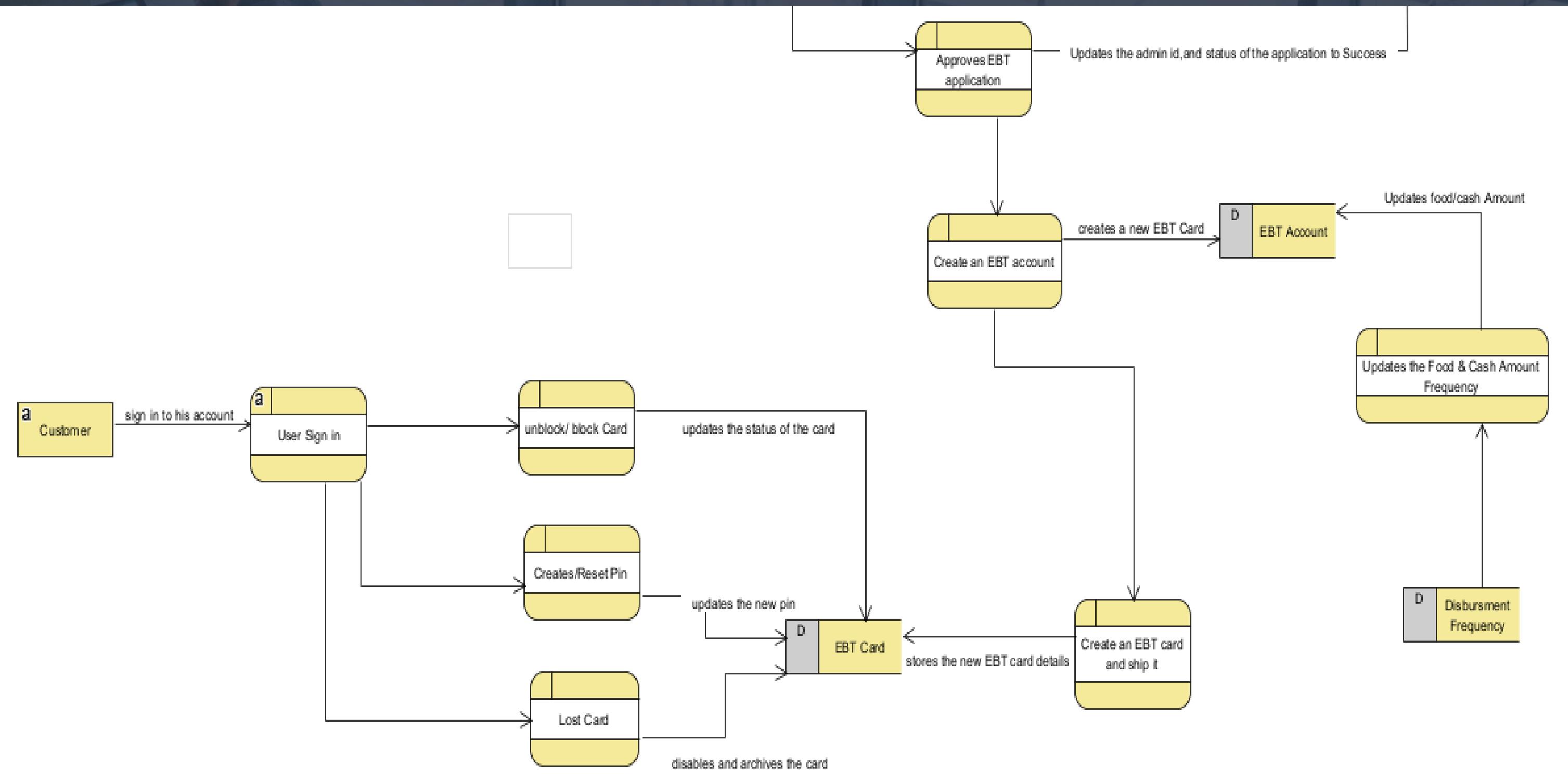
ADMIN REGISTRATION



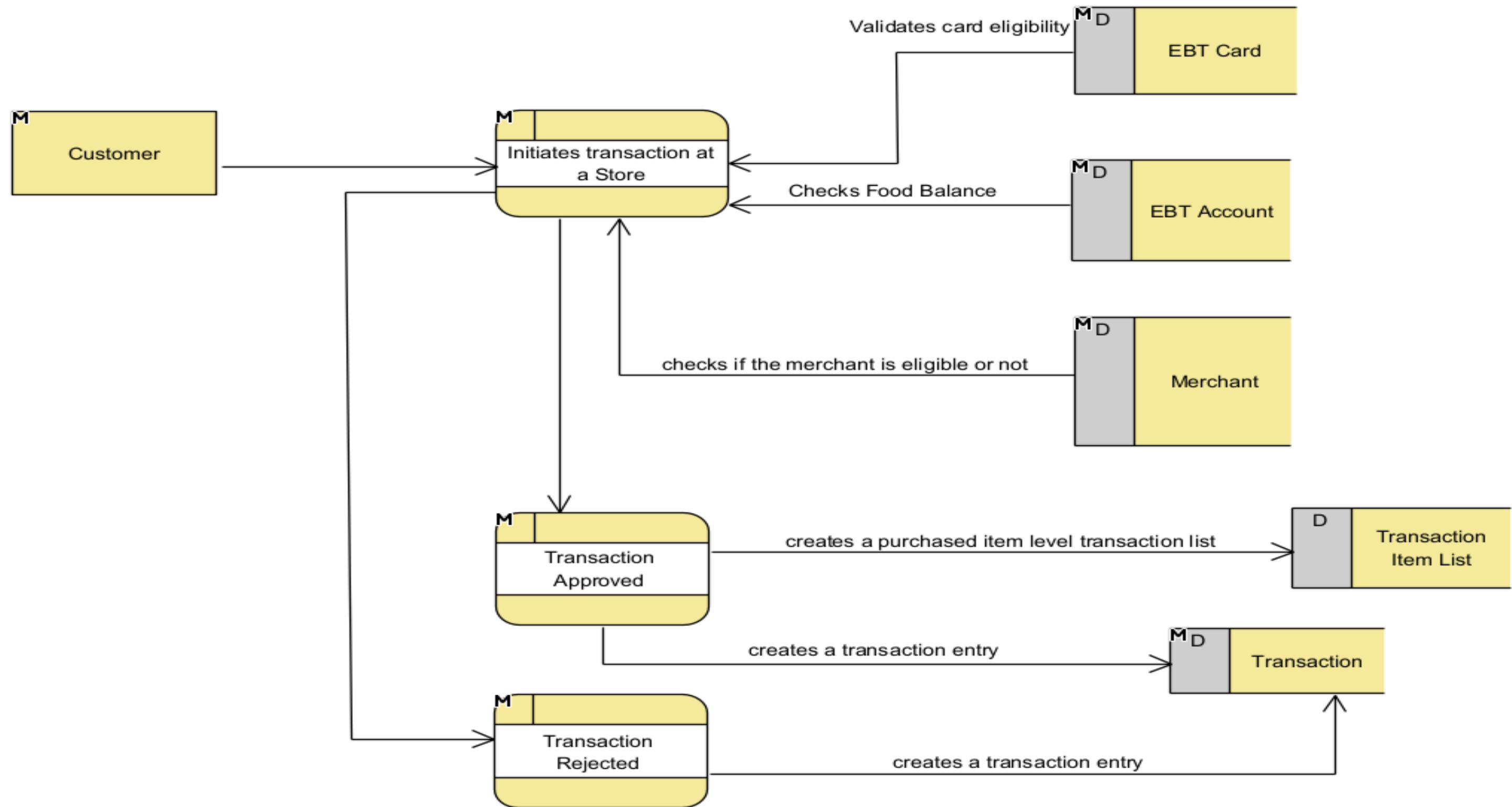
EBT APPLICATION FLOW



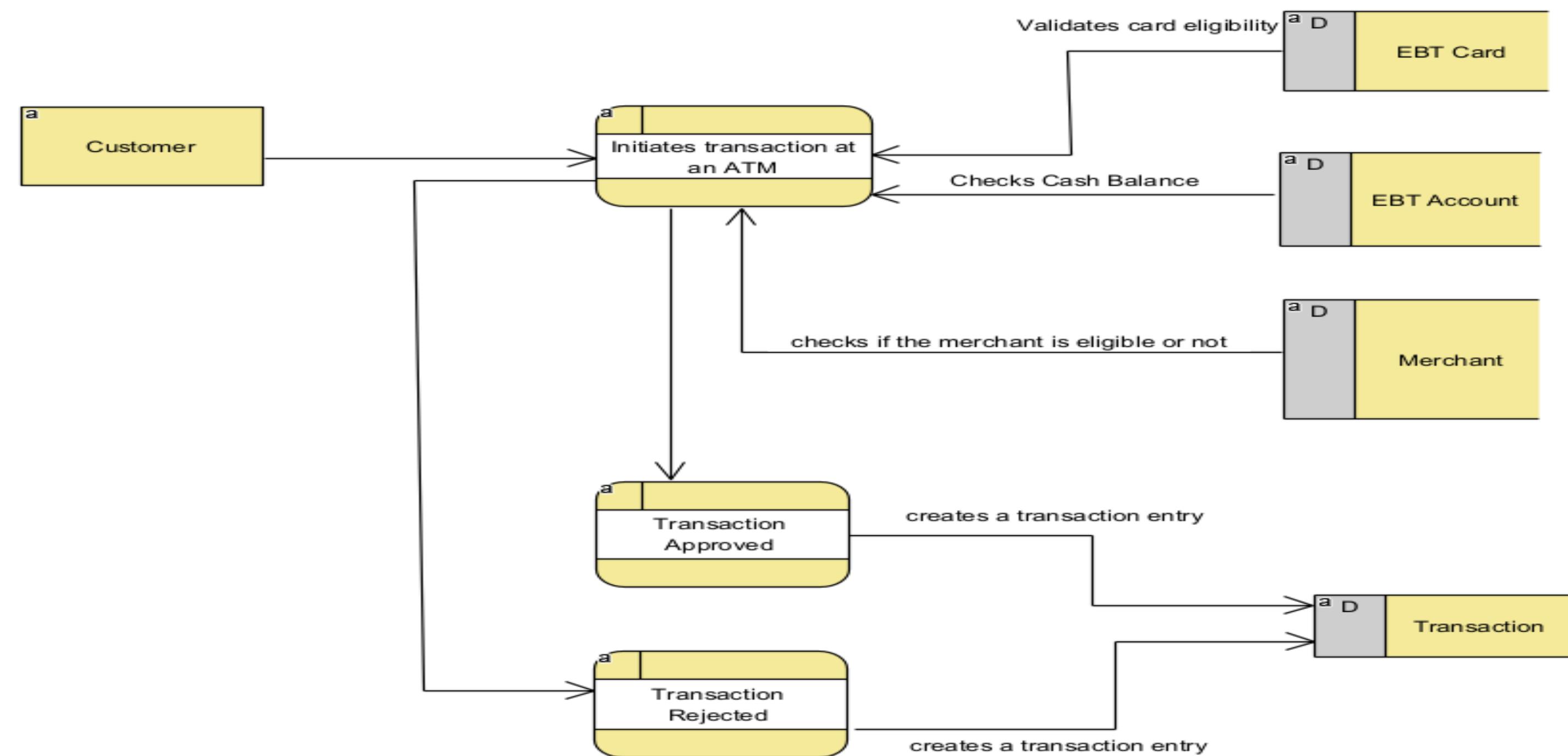
ACCOUNT AND CARD CREATION FLOW



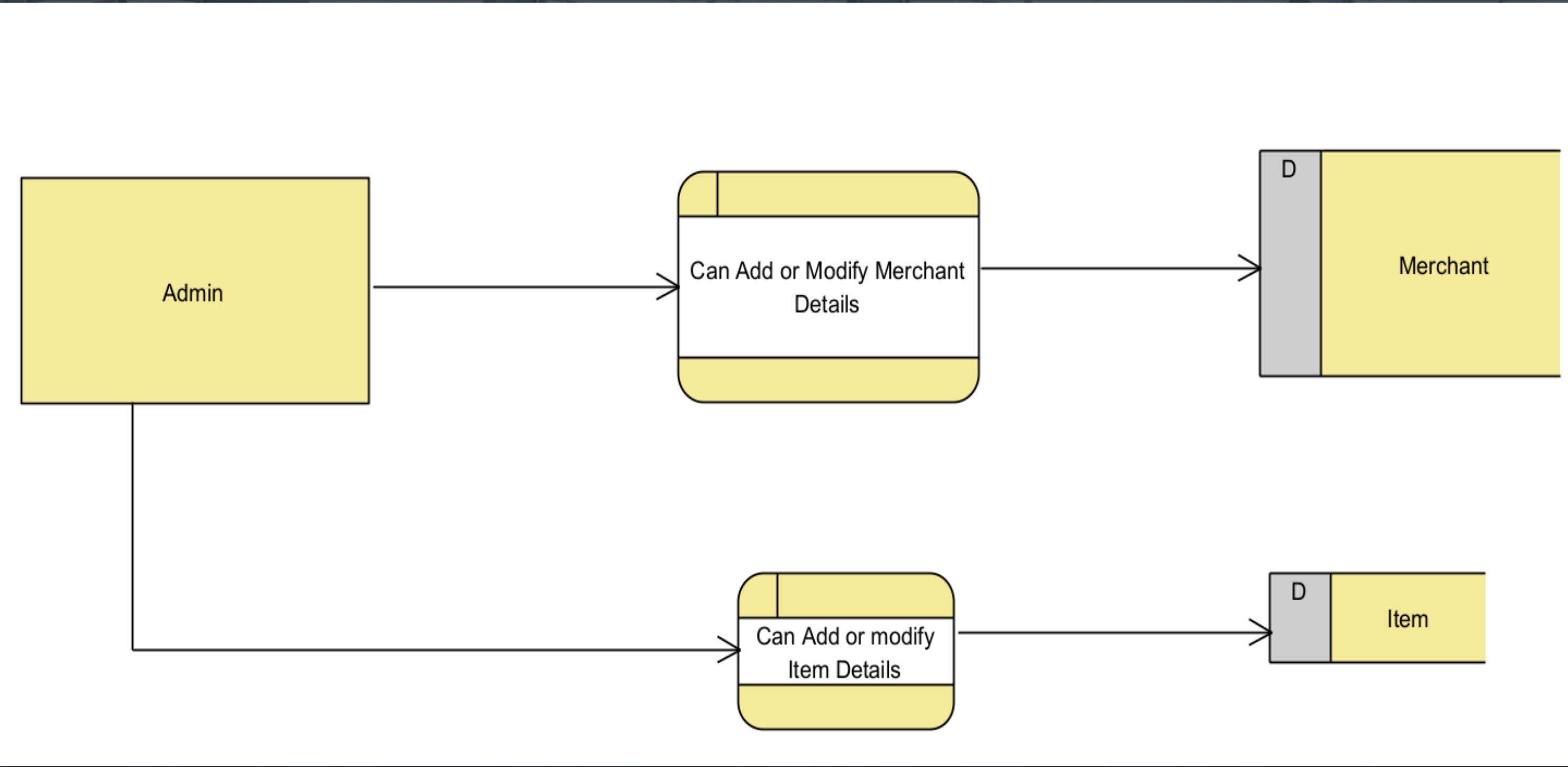
USER TRANSACTION FLOW



CUSTOMER TRANSACTION AT ATM



ADMIN ITEM/MERCHANT CHANGES FLOW



Thank You
