```
                          ┌─────────┐
                          │  Start  │
                          └────┬────┘
                               │
                    ┌──────────────────────┐
                    │ User inserts ATM Card │
                    │   into the machine    │
                    └──────────┬───────────┘
                               │
                    ┌──────────────────┐              ┌──────────┐
                    │ Process the card │              │   User   │
                    └──────────┬───────┘              │ Database │
                               │                      └──────────┘
```

Start → User inserts ATM Card into the machine → Process the card → User Database

If user has account in the bank
- No → Denies access to the user and gives message "Invalid Card"
- Yes → Shows options
  1. Statement
  2. Balance enquiry
  3. Withdrawl
  4. Deposit
  5. Exit

Checks the options
- If option 1 or 2 → Checks the option
  - 1. Statement → Process the request and fetches the information of the account → Account Database → Generates the statement → Prints the statement
  - 2. Balance enquiry → Checks for the balance in the account → Account Database → Displays the Balance in the account
- if option 3 or 4 → Checks the option
  - 3. Withdrawl → User enters the amount → Checks for the available balance in the database → Account Database
    - if yes → then withdraws the amount and updates the database → Account Database → Dispatch the requested amount
  - 4. Deposit → User inserts money → checks if any duplicate bills or folded bills or torn bills are there → User have to verify the bills and insert the folded bills → checks if folded bills are there
    - Yes → (back to User inserts money)
    - No → Process the bills and deposits in the machine and updates the database → Account Database → Gives receipt to the user with deposited information
- 5. Exit → Stop/Terminate

Stop/Terminate

Simple ATM Application