```
                        THE BANK OF IIITL

PLEASE INSERT YOUR CARD HERE :
54321
PLEASE HANG ON A SECOND WHILE WE SET THINGS UP FOR YOU :)

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                        THE BANK OF IIITL

       path : welcome screen

WELCOME BACK TO THE BANK OF IIITL, Sid !!


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                        THE BANK OF IIITL

       path : management transaction

SELECT MANAGEMENT TRANSACTION :
1.WITHDRAWAL (type w)
2.DEPOSIT (type d)
3.CHECK ACCOUNT BALANCE (type b)
4.FUND TRANSFER (type t)
5.UPDATE USER DATA(tyep u)
6.ADD A NEW USER(type a)
7.LOG OUT (type o)
WAITING FOR INPUT...
a
```

Objectives:-

- Automated Teller Machine
- Bank database
- SQL queries

Our Database:-

```
mysql> select * from cards;
+----+----------+--------+---------+-----------+------------+-------------------------------+
| ID | Name     | PIN    | acc_bal | City      | cardNumber | mail                          |
+----+----------+--------+---------+-----------+------------+-------------------------------+
|  1 | Sid      |  12345 |    9000 | bengaluru |      54321 | lcs2020007@iiitl.ac.in        |
|  2 | shashwat |   1234 |   10199 | Bangalore |      97867 | shekharshashwat06@iiitl.ac.in |
|  3 | Ramesh   | 123456 |   11200 | Mumbai    |      12345 | ramesh2020@gmail.com          |
|  4 | Suresh   |   1234 |    5600 | bangalore |      31378 | suresh2020@gmail.com          |
|  5 | Jay      |   8787 |     900 | Kolkata   |      68781 | jay2020@gmail.com             |
+----+----------+--------+---------+-----------+------------+-------------------------------+
5 rows in set (0.00 sec)
```

Our project includes:-

- A database which stores the data of each user. It stores balance, email addresses, card number, pin and the city in which the user lives.(Done using MySQL)
- Once the user logs in he gets an email in his registered email address. This lets him know that his transactions were successfully completed.
- Our interface also provides an option of logging in through an OTP which removes the need of a physical card.

Application:-

A local bank intends to install a new automated teller machine (ATM) to allow users (i.e., bank customers) to perform basic financial transactions. Each user can have only one account at the bank. ATM users should be able to view their account balance, withdraw cash (i.e., take money out of an account) and deposit funds (i.e., place money into an account). The user interface of the automated teller machine contains the following components:

- a screen that displays messages to the user
- a keypad that receives numeric input from the user
- a cash dispenser that dispenses cash to the user and
- a deposit slot that receives deposit envelopes from the user.

Upon first approaching the ATM (assuming no one is currently using it), the user should experience the following sequence of events):

1. The screen displays a welcome message and prompts the user to enter an account number.
2. The user enters a five-digit account number using the keypad.
3. The user is then displayed various options on the screen . Out of these options he can choose any one at a time.
4. One the user selects an option the screen prompts the user to enter the PIN (personal identification number) associated with the specified account number.
5. The user enters a five-digit PIN using the keypad.
6. If the user enters a valid account number and the correct PIN for that account, the screen changes and the user is allowed to complete his transaction .If the user enters an invalid account number or an incorrect PIN, the screen displays an appropriate message, then the ATM returns to Step 1 to restart the authentication process.
7. Once the transaction is completed the user gets a mail notifying him . The user is again asked if he wants to complete another transaction. If the user selects “yes”

he is redirected to -STEP 3. If the user chooses “no” he is logged out and the process ends there.