

## **LAB - 4**

### **Group 4**

#### **Student ids**

*Astha Shah - 201801169*

*Preet Amin - 201801051*

*Parthraj Chauhan - 201801208*

*Shubham Makwana - 201801213*

*Shivam Bodiwala - 201801111*

*Vatsal Gujarati - 201801162*

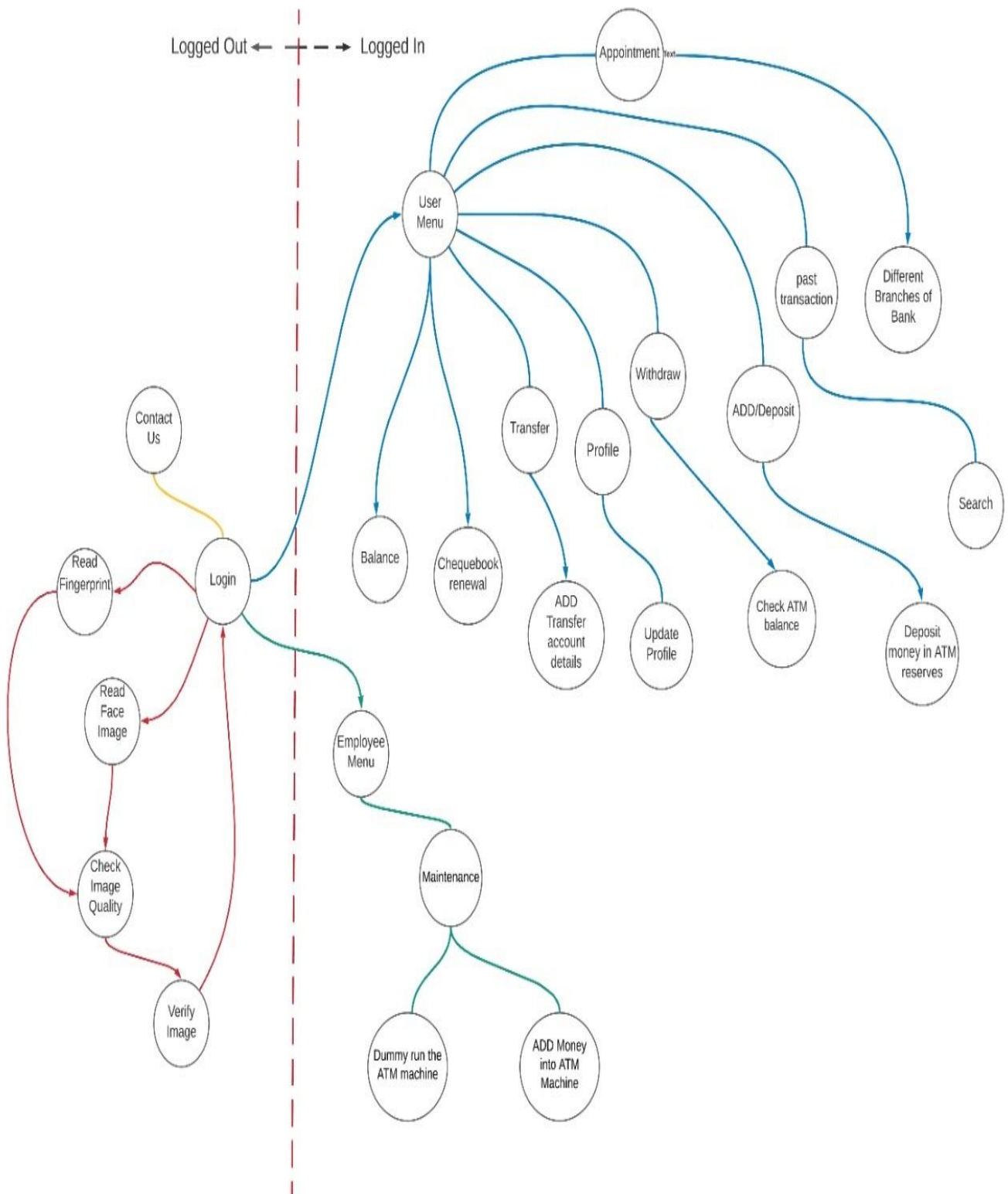
*Smit Visat - 201801239*

*Vanshika Kochhar - 201801104*

*Dhruvil Bhatt - 201801056*

*Vyom Saraf - 201801062*

Q1 :



Q2 :

**Stakeholders:**

1. Clients (the users of the bank's system i.e. the person/organisation which has an account in that bank)
2. Banks (the owners of the atm and the ones whose database the atm software is using)
3. Employees of the bank (the employee who goes to the atm to perform the maintenance work of the atm)

**Actors:**

1. Client is the user of the bank. Client can be a person or an organisation or a representative of an organisation who is using the ATM
2. Employee is the bank's authorized person who can access the ATM and it's information and have power to do some changes in the ATM configuration.
3. Server is the database storage system whom the ATM system will get all its data from. This server stores the user and employee information along with mapping the same to their respective accounts.

**Use Cases :** Use case modeling is a description of a sequence of interactions between a system and external actors. Use case modeling will help us elaborate the functional requirements into the form of scenarios. Use cases are used to identify the dependencies between the functional requirements.

1. **Login**: User has to login which would be authenticated via face recognition and fingerprint recognition which is present in the server of the bank.
2. **Withdraw**: Users can withdraw money provided the money is present in the ATM.
3. **Balance**: Users can request for their current balance and get a hardware receipt of the same.
4. **Add money**: Users can add the money in their account which would be first checked by the hardware installed in atm to see whether it is real or fake money. The added money would then reflect in their account.
5. **Profile** : Users can see their profile

- a. **Update** : Users can update certain aspects of their profile
- 6. **Issue Cheque Book** : Users can get a new cheque book issued which would be mailed to their address.
- 7. **Mini-statement**: User can get information about his last 5 transactions.
- 8. **Transaction details**
  - a. **Search**: Users can perform a search on all their previous transactions on basis of transaction date or amount or any other transaction details.
- 9. **Transfer**: Users can transfer money from one account to another account and also add a new account to which the amount would be transferred. This would be done after verifying the existence of the new account by the bank staff.
- 10. **Appointment**: Users can book an appointment at the bank at a specific date and time.
- 11. **Maintenance**: Employees can perform ATM maintenance like hardware checks or adding money into ATM

Q3 :

