**Design document for Banking application.**

**Description of application:**

**This application will allow the user to**

1. create a bank account,
2. make deposit into his account,
3. check his/her bank account balance,
4. withdraw money from his account
5. Close account
6. Print receipt from ATM machine

**Use cases 1:** Create a bank account.

**Use cases 2: M**ake deposit into his account,

**Use cases 3: C**heck his/her bank account balance,

**Use cases 4: W**ithdraw money from his account .

**Use cases 5:** Close account

**Use case 6:** Print receipt from ATM machine

**Classes:**

**Account class**

1. userName
2. userID
3. pinCode
4. user address
5. types of accounts

**Functionalities**

1. create account(int userID, userName);
2. checkBalance(username, userPinCode);
3. makeDeposit(userPinCode);
4. widrawCash(userPinCode);
5. closeAccount(username, userPinCode);

**WriterClass:**

1. SaveTransaction(int transactionId)
2. PrintTransaction(int transactionId)

**Design diagrams**

**Use case diagrams**

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| **Account** |
| **-userName:String; - userID: int; - pinCode : int ; - userAddress : String;** |
| **+Account();**  **+CreateAccount()**  **+MakeDeposit(double amount)**  **+WidrawCash(double amount)** |

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| **ATM** |
| **-accounts: HastMap;** |
| **+ATM();** |