Software Requirements Specification

for

<Bank management system>

Version 1.0 approved

Prepared by <noor sadek>

<12/4/2020>

1. Introduction

The following   provides an overview the software requirement specification (SRS) for the bank management system(ATM)

1.1 Purpose

TO develop software required for support computerized bank network

1.2 Product Scope

The ATM identifies a customer by a cash card and password. It collected information about a simple account transaction; customer can balance enquiry and transfer to another account in the same bank and pull the money from account

2. Overall Description of the system

The description all properties of the system and used for customer and engineers and manager this is the first version of the SRS .

A bank has several automated teller machines (ATM).which are connected via a wide area network to a central server. Each ATM machine has a card reader; by using the ATM machine a customer can withdrawal cash from either checking or savings account.

A transaction is when a customer insert a(ATM)card in to the card reader, the bank(ATM) the start date and the expiration date if the ATM card is expiration the ATM bank not passed.

If the ATM is pass ,the customer insert PIN(personal identification number) machine the PIN checking the number and determine if correct or not

If not the customer allow three attempts fails.

If the PIN is validated, the customer is prompted for a withdrawal   ,query ,transfer transaction before withdrawal the system determine that if the amount of money is enough to complete the process ,

If (yse) complemented and if not the system send message the mount not enough to complete the process.

ATM operator may start up and close down the ATM to open and close account and create, update and delete customer account,

1- User requirements

2.1 Functional   Requirements (user)

- TO register a new customer
- Input
    The required data (name , address , ect)
    Password of ATM card
    Pin of account
- Output (print information to any completed transaction)
    A success message will be displayed on successful operation or else an error message will be displayed

2.2 Non-functional requirement (user& system, software developer)

2.2.1 Safety requirements
   a. Backup ,recovery & business continuity banks should ensure adequate back up of data as may be required by their operations, bank should also have well documented and test business continuity plans that address all assisted of the banks business

Both data and software should be backed up periodically

2.2.2 Security Requirement
     a. account ID and password (PIN) Protection
     b. Auto time out screen Blanking
     c. sign-off-on Attempts
     e. Encryption

2.2.3 Software Quality attributes
a. Reliability
   Measure if product is reliable enough to sustain in any condition should give consist correct results. Product reliability is measured in term of working of project under different working environment and different conditions

b . maintainability
   Different versions of the product should be easy to maintain, for development it is easy add code to existing system .maintenance should be cost effective and easy.

C . Portabilibility
   This can be measured in term of costing issues related to porting technical issues related to porting, behavioral issues related to porting.

3. Software requirements

This product is developed using open source technology like php ,HTML, CSS, C++ we can use any operating
Frontend: GTK+2.8.20 GCC 4.0.0,PHP 5.20,GLAD 2.10.1
Backend: MY SQL
Web server:
Platform used: Linux, windows xp, windows 10 windows vista
Web Browser: Microsoft internet explorer, Mozilla , Google chrome,

4. Hardware   requirements

- Standard pc
- Internet connection with good enough speed
- ATM
- Pentium better processor
- 256 MB or more RAM
- At last 500 MB hard disk space

5. Software specifications

- The bank have many automated teller machines(ATM)s ,and the new software system shall provide functionality on all ATM

- The system shall enable the customer of bank who have valid ATM card to perform three type of transaction (1 withdrawal of funds 2-query of account balance 3-transfer of funds from one bank account to another account in the same bank.)
- An ATM card shall be considered valid if it meet the following condition:
    a. The card was issued by an authorized bank.
    b. The card is used after the start date the date when the card was issued
    c. The card is used before the expiration date
    d. The customer provide correct personal number (PIN) used with the system

- The system shall allow the customer to enter the correct (PIN) in no more three attempts .the failure to provide correct PIN in three attempts shall result in the confiscations of the ATM card.
- The system shall ask for the transaction type after satisfactory validation of customer PIN .the customer shall be given three options: withdrawal or query or transfer transaction.
- If the customer selects withdrawal transaction the system prompt the customer to enter account number and amount to be dispensed.
- If a withdrawal transaction is approved the requested amount of cash shall be dispensed, A receipt shall be printed containing information about the transaction and the card shall be ejected .the information printed be transaction number, transaction type, amount withdrawn and account balance.
- If customer selects query transaction the system shall prompt the customer to enter account number.
- If a query transaction is approved the system shall print a receipt and eject the card and printed information (transaction number ,transaction type ,account balance)
- If customer selects transfer transaction the system shall prompt the customers enter account number and mount to be transferred.
- The system shall check if there are enough funds available in the form account which is being requested for transfer to the account.
- If the transfer transaction approved a receipt shall be printed and card shall be ejected
- The system shall cancel any transaction if has not been completed if customer press cancel button