**ATM systems – Week 1**

**Business requirements**

* a system that can dispense cash from the user’s bank account.

**User requirements**

* the user needs a machine that will dispense different amounts of cash for their convenience. They need to be able to select or enter the amount of cash they would like to take out.
* They should also be able to use the ATM to see their available balance.
* Measures in place to keep their account details safe
* 24hr access

**System requirements**

* should be able to accept the types of debit and credit cards used from various banks e.g Natwest, Barclays, HSBC, Halifax, and credit providers e.g. mastercard, visa, American Express
* should have a way for the user to confirm their access to the bank account. Two- step verification, physical card and PIN Number.

**Software Requirements- Week 2**

1. **Introduction**

A software requirements document for an ATM system

* 1. **purpose of the requirements document**

the purpose of this document is to create a shared understanding of the software requirements

* 1. **scope of the product**

this is an ATM system, and the function of it is to withdraw cash from to the users bank accounts and for users to see their bank balance

* 1. **definitions, acronyms, abbreviations**

ATM (Automated Teller Machine)

* 1. **references**
  2. **overview of the reminder of the document**

1. **General Description**

An ATM where the users can withdraw cash and view their bank balance.

* 1. **product perspective**
  2. **product functions**

reading the users debit or credit card. Allowing them to access their bank information e.g bank balance. Allowing them to withdraw cash from their available balance.

* 1. **user characteristics**

views the “insert card” screen.

Then the user must enter their pin number

Then the user must choose from a menu which service would they like from the ATM e.g cash, cash with receipt, view balance.

User can choose from the next amount they want to withdraw: £10, £20, £30, £40, £50, £60, £70, £80 and an option for a custom amount if their selection is not on the menu.

After amount is selected the machine will return the card and prompt the user to take their cash.

* 1. **general constraints**

security issues: card cloning, micro cameras and head sensors recording PIN numbers to fraudulently gain access to bank accounts. Out of order glitches. Not being available 24hrs a day.

* 1. **assumptions and dependencies**

an assumption would be that the ATM would be able to accept all types of debit and credit cards used in the UK.

1. **specific requirements (functional, non-functional & interface requirements**

Functional

User 1 - customer

User goes through two-step verifications using a physical bank card and PIN number to gain access to bank details and cash. After they have used the desired services their bank card is returned to them.

User 2 – administrator

Non-functional

Security- can be a glitch or slow response of security has been compromised.

Minimal amount of interface frames.

Available 24hrs

The system may or may not charge for access to the ATM

Interface

Simple and basic interface. Users should be able to navigate through the ATM software with ease.