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| CS 307 – Software Engineering |
| ATM 2.0 |
| Project Requirements Backlog |

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**Problem Statement**

Currently, automated teller machines (ATMs) are subject to fraud by use of stolen bank cards and information. Our solution, the ATM 2.0, involves the use of three-point biometric and traditional authentication, which will effectively negate this risk by requiring fingerprints and facial recognition in order to dispense money. Such ATM systems are not used commercially in the United States at this time.

**Background Information**

Blah blah blah

**Functional Requirements**

* As a user, I need to withdraw specific amounts of money.
* As a user, I would like a touch based interface.
* As a user, I need an intuitive interface.
* As a user, I need to deposit money.
* As a user, I need to manage my security preferences, such as enabling/disabling biometric authentication.
* As a user, I need to view my account balance.
* As a user, I should be able to set my PIN.
* As a user, I should be able to enter a backup password received from the bank.
* As a user, I need to transfer funds between accounts.
* As a user, I would like to select my language.
* As a user, I would like a “Support” button in case I run into problems.
* As a user, I would like the ability to print a receipt.
* As a user, I would like the ability to make multiple transactions.
* As a user, I need the ability to log out of my account.
* As a user, I need the ability to cancel a transaction.
* As a user, I would like the ability to withdraw using a “fast cash” feature.
* As a user, I would like the ability to set my “fast cash” amount.
* As a developer, I would like to have code that can be easily understood
* As a developer, I would like code that is built to be updated later
* As a developer, I would like an easily accessible source control system.
* As a developer, I would like to use Triple DES level encryption on the authentication data collected from the user before being sent to the network layer.
* As a developer, I would like USB ports disabled to prevent unauthorized access.
* As a developer, I would like Windows to be the operating software for interoperability with Azure.
* As a developer, I would like the connection between the Raspberry pi and the server to be over a VPN.
* As a developer, I would like a robust and customizable framework for the graphics user interface.
* As a developer, I would my customer database to be easily scaleable.
* As a developer, I would like to create an interface for the bank to add/modify customers details in the customer database.
* As a developer, I would like to use Azure services to host my customer database, authentication protocol and banking interface.
* As a developer, I would like to use C# and LINQ queries to modify my database.
* As a customer, I should be able to provide a backup passwords in case the hardware fails and the user of the atm machine calls.
* As a customer, I should be able to perform routine checks on each hardware device individually for
* As a customer, I need the software to run efficiently
* As a customer, I would like ATM 2.0 to be compatible with standard ATMs.
* As a customer, I would like my logo to be displayed on the screen.
* As a customer, I would like remote terminal to the machine.

**Non-Functional Requirements**

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