|  |
| --- |
| CS 307 – Software Engineering |
| ATM 2.0 |
| Project Charter |

|  |
| --- |
| **Team 25**  Anthony Goeckner  Krutarth Rao  Austin Reed  Harold Smith  8-30-2016 |

**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.

**Objectives**

* Create a secure ATM transaction system using biometric authentication.
* Build a database pairing ATM users’ biometric information with their bank accounts.
* Create an intuitive display for easy banking, with the ability to enable or disable biometric security on a per-account basis.
* Construct a physical ATM mock-up to demonstrate the effectiveness of the ATM 2.0 system that includes a built-in screen for user interaction and integrates biometric authentication hardware.

**Stakeholders**

* Project Owners: Anthony Goeckner, Krutarth Rao, Austin Reed, Harold Smith.
* Project Manager: Rotating between Anthony Goeckner, Krutarth Rao, Austin Reed, and Harold Smith.
* Project Developers: Anthony Goeckner, Krutarth Rao, Austin Reed, Harold Smith.
* Customers: Banks and credit unions seeking ATM systems with higher security than current standards.
* Users: Account holders at participating banks.

**Deliverables**

* Fingerprint and facial scanning system with ability to match scanned metrics against those stored in a user database.
* Intuitive ATM user interface with ability to enable or disable biometric security on a per-account basis.
* Physical ATM incorporating necessary biometric sensors.