|  |
| --- |
| 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.

**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.