UnblockCard Extension Report

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Total time spent: (combined)

Category 1: 3 hours 5 minutes
- Adding new method and editing existing methods to keep a record of failed tries

Category 2: 40 minutes
- Extending the test suite with basic test methods, solving minor bugs discovered while testing.

Category 3: negligible

The fact that we already had a pin system that did checks based on the pin cards in our database meant we could just add an extra column with a value representing the amount of failed pin_code attempts and then check that value when performing a transaction(this row is then already retrieved from the database so it was just a matter of checking that extra value). This made it very easy to add the blocking functionality for pin cards.

No decisions worked against us this extension.

No major changes were made to the architecture, a column was added to the pin database containing the amount of attempts made on a card. A check was added for that value during transactions, and an unblockCard method is added in each service that when chained together will reset the attempts value back to 0.
We made the decision to reset the count of failed attempts every time the PIN was entered correctly, so that only three consecutive failed attempts would block the card.