Professional Gift Card Server

Why call this professional? Because this system is a reduced function version of a gift card server that is running on several commercial sites. You may also notice both architectural differences as well as functional differences between this system and the other systems on this source code site.

This server has:

Runs on Azure Database as a Service

PCI level Encryption of important data in the database – so that when the database is hacked, the hacker can’t use the information.

Encryption of Card numbers

Encryption of important cardholder data

Encryption of important merchant data

Gift Card Functions Supported:

Receive cards into inventory

Ship cards to merchant

Gift Activate (put value on card)

Gift Sale (redeem of value)

Support for “Split Tender” on the sale

Gift Return (put value on card)

End of Day Summary Report

End of Day Detail Report

It logs everything in multiple formats so that errors can be tracked down and monitored

All log in attempts

All successful transactions

All failed transactions

All execution errors

Three tier architecture with controllers instantiating business objects and calling methods which call Data Access Objects to manipulate the database.

SQL Stored procedures for the transactions

SQL unit tests

We got started on Internationalization by a number of the error messages are stored in resource files

Supporting terminal ID’s for multi-lane stores

Supporting multiple time zones through merchant local time stamp

Will there be bugs in this system? I would expect so. All we did to generate this code base was to take our existing system, pull out a lot of stuff, and make sure that it compiled. We did not run any real testing on the results to see if we caught all the bugs. I’m sure that something got messed up in this process.

While this is a reduced functionality system, we offer a full function system that can be customized. We believe that purchasing the full function system from us will be cheaper than you attempting to put these functions back into this reduced system. We can also add other custom functions to this system.

What does our commercial version have that is not in the reduced version?

Gift Card Functions supported in commercial version but not the reduced version:

Card Top Up

Card Balance Inquiry

Transaction Void

Balance Transfers

Support for chains

Support for merchant groups such as a mall

Support for Agents and Sub Agents who are reselling the service

Support for Agents to have their own “BIN” range and they can issue cards to merchants

Merchant to merchant transfers at end of day and reporting on those transfers

IP address tracking on every transaction

Web API designed to work with VeriFone or other POS terminals (XML responses)

Web API designed to work with tablets or other devices (JSON responses)

Raw socket communications (such as VISA K or Paymentech or other format that you have documentation on) that some POS terminals need.

Loyalty functions

Loyalty Register Cardholder

Loyalty log Sale Transaction

With possible rewards issued on this sale

With possible prizes awarded on this sale

With possible coupon granted on this sale

Loyalty Return Transaction

Loyalty Balance Inquiry

With possible redeem of reward

Loyalty Management screens

Multiple ways that you can define how points are awarded

Multiple ways that rewards can be defined and awarded

Multiple ways that prizes can be awarded

Coupon management

Loyalty Reports

End of Day reports – summary and detail

Customer Ranking Report

Differential Ranking Report

Loyalty Analytics

Revenue, Frequency, Monetary (RFM) Ranking and Reporting

RFM Charting

Coupon response reporting

Logging of the errors to different tables in the database instead of text files so that a dashboard could be written to monitor activity in real time.

By the way, the encryption keys and initial vectors are different between this product and our commercial product. So, the publishing of this code does not endanger any existing or future systems.

Why do this? Because we have had inquiries from places that can’t afford American professional level work. And we hope to get people who look at this and want something customized from either this or our full commercial system.

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