CLAIMS

WHAT IS CLAIMED IS:

1. A system, comprising:

a non-transitory memory storing instructions; and

one or more hardware processors coupled to the non-transitory memory and configured to read the instructions from the non-transitory memory to cause the system to perform operations comprising:

intercepting, from a network via a network component, card data for an electronic transaction with a merchant device of a merchant conducted using a funding source associated with the system based on network communications over the network by the merchant device for processing the electronic transaction;

generating, by an operation of an expense management application of the system, at least one alphanumeric code associated with the electronic transaction, wherein the at least one alphanumeric code identifies the electronic transaction with the expense management application;

determining, by the operation, data for a physical transaction record to be generated by the merchant device for the electronic transaction;

determining, based on the data and the merchant device, a placement of the at least one alphanumeric code on the physical transaction record, wherein the placement enables an identification of the at least one alphanumeric code on the physical transaction record by the system;

adding, to the card data by the operation via the network component, the at least one alphanumeric code to the data on the physical transaction record based at least on the placement, wherein the adding causes the physical transaction record from the merchant to include the at least one alphanumeric code when generated by the merchant device;

receiving, via the network component, an image comprising a digital representation of the physical transaction record;

tracing, within the image, one or more lines of the digital representation of the physical transaction record for the at least one alphanumeric code and text data for the physical transaction record;

accessing a fingerprint database for merchant transaction records, wherein the fingerprint database comprises data placements for the data on at least the physical transaction record;

determining, by the operation and based on the fingerprint database, the text data in the image using the tracing and an image processing operation with the digital representation of the physical transaction record;

scoring the text data with stored transaction data for the electronic transaction; and

matching, by the operation based on the scoring, the digital representation of the physical transaction record to the stored transaction data for the electronic transaction with the expense management application.

2. The system of claim 1, wherein the at least one alphanumeric code comprises an authorization code associated with processing the electronic transaction and a transaction identifier identifying the electronic transaction with the system.

3. The system of claim 1, wherein the physical transaction record comprises a physical receipt from a point of sale device corresponding to the merchant device, and wherein the image processing operation comprises an optical character recognition process.

4. The system of claim 1, wherein the image processing operation comprises a text recognition process.

5. The system of claim 1, wherein the operations further comprise:

storing the digital representation associated with the physical transaction record with the stored transaction data a database for a business entity associated with the funding source.

6. The system of claim 1, wherein the adding the at least one alphanumeric code to the data comprises one of transmitting the at least one alphanumeric code to the merchant device or adding the at least one alphanumeric code to an electronic message.

7. The system of claim 1, wherein prior to generating the at least one alphanumeric code, the operations further comprise:

determining that the electronic transaction complies with an expense policy for an entity associated with the funding source; and

processing the electronic transaction on behalf of the entity with the merchant, wherein the physical transaction record is generated based on the processing the electronic transaction.

8. The system of claim 7, wherein prior to the intercepting the electronic transaction, the operations further comprise:

generating an identifier for the funding source, wherein the identifier is provided to the entity with the funding source; and

generating the expense policy with the entity, wherein the expense policy includes data from a receipt matching process associated with a transaction history for the funding source.

9. The system of claim 1, wherein the operations further comprise:

allocating the electronic transaction to an expense management category based on at least the text data for the physical transaction record.

10. The system of claim 1, wherein the at least one alphanumeric code comprises one code of a plurality of codes, and wherein the operations further comprise:

determining at least one of a merchant identifier, a date, or an amount on a receipt,

wherein the matching is further performed based on the at least one of the merchant identifier, the date, or the amount.

11. The system of claim 1, wherein the image processing operation comprises an optical character recognition operation, and wherein the optical character recognition operation utilizes at least one line drawn in association with the placement through the digital representation to determine the text data in the digital representation.

12. The system of claim 1, wherein prior to the receiving the image comprising the digital representation, the operations further comprise:

processing the electronic transaction with the merchant; and

transmitting an electronic message to a mobile device of a user associated with the funding source, wherein the electronic message comprises a request for the digital representation.

13. A method comprising:

intercepting, from a network via a network component of a computing system comprising at least one hardware processor, card data for an electronic transaction with a merchant device of a merchant conducted using a funding source associated with the computing system based on network communications over the network by the merchant device for processing the electronic transaction;

generating, by the at least one hardware processor using an operation of an expense management application of the computing system, at least one alphanumeric code associated with the electronic transaction, wherein the at least one alphanumeric code identifies the electronic transaction with the expense management application;

determining, by the at least one hardware processor using the operation, data for a physical transaction record to be generated by the merchant device for the electronic transaction;

determining, by the at least one hardware processor based on the data and the merchant device, a placement of the at least one alphanumeric code on the physical transaction record, wherein the placement enables an identification of the at least one alphanumeric code on the physical transaction record by the computing system;

adding, by the at least one hardware processor using the operation to the card data via the network component, the at least one alphanumeric code to the data on the physical transaction record based at least on the placement, wherein the adding causes the physical transaction record from the merchant to include the at least one alphanumeric code when generated by the merchant device;

receiving, by the at least one hardware processor via the network component, an image comprising a digital representation of the physical transaction record;

tracing, by the at least one hardware processor within the image, one or more lines of the digital representation of the physical transaction record for the at least one alphanumeric code and text data for the physical transaction record;

accessing, by the at least one hardware processor, a database for merchant transaction records, wherein the database comprises data placements for the data on at least the physical transaction record;

determining, by the at least one hardware processor using the operation and based on the database, the text data in the image using the tracing and an image processing operation with the digital representation of the physical transaction record;

scoring the text data with stored transaction data for the electronic transaction; and

matching, by the at least one hardware processor using the operation based on the scoring, the digital representation of the physical transaction record to the stored transaction data for the electronic transaction with the expense management application.

14. The method of claim 13, further comprising:

determining additional transaction data for the electronic transaction from the text data; and

adding the additional transaction data to the stored transaction data.

15. The method of claim 13, wherein the matching comprises:

identifying a plurality of electronic transactions;

determining a score for each of the plurality of electronic transactions based on at least one of a transaction date or an amount of the each of the plurality of electronic

transactions, wherein the score for the each of the plurality of electronic transactions identifies a likelihood that the each of the plurality of electronic transactions match the text data; and

determining the text data from the digital representation matches the stored transaction data based on the score for the each of the plurality of electronic transactions.

16. The method of claim 13, further comprising:

performing a fingerprinting of a plurality of merchant receipts using the database, wherein the fingerprinting identifies a plurality of placements of a plurality of alphanumeric codes on the plurality of merchant receipts,

wherein the parsing uses the fingerprinting based at least on the placement of the at least one alphanumeric code on the physical transaction record.

17. The method of claim 13, further comprising:

adding at least one of user data for a user submitting the image, a transaction category for the electronic transaction, or the text data to the stored transaction data.

18. The method of claim 13, further comprising:

allocating an expense for the electronic transaction to a client based on text data of from the digital representation.

19. A non-transitory machine-readable medium having stored thereon machine-readable instructions executable to cause a machine to perform operations comprising:

intercepting, from a network via a network component of a computing system comprising at least one hardware processor, card data for an electronic transaction with a merchant device of a merchant conducted using a funding source associated with the computing system based on network communications over the network by the merchant device for processing the electronic transaction;

generating, by an operation of an expense management application of the computing system, at least one alphanumeric code associated with the electronic

transaction, wherein the at least one alphanumeric code identifies the electronic transaction with the expense management application;

determining, by the operation, data for a physical transaction record to be generated by the merchant device for the electronic transaction;

determining, based on the data and the merchant device, a placement of the at least one alphanumeric code on the physical transaction record, wherein the placement enables an identification of the at least one alphanumeric code on the physical transaction record by the computing system;

adding, to the card data by the operation via the network component, the at least one alphanumeric code to the data on the physical transaction record based at least on the placement, wherein the adding causes the physical transaction record from the merchant to include the at least one alphanumeric code when generated by the merchant device;

receiving, via the network component, an image comprising a digital representation of the physical transaction record;

tracing, within the image, one or more lines of the digital representation of the physical transaction record for the at least one alphanumeric code and text data for the physical transaction record;

accessing a database for merchant transaction records, wherein the database comprises data placements for the data on at least the physical transaction record;

determining, by the operation and based on the database, the text data in the image using the tracing and an image processing operation with the digital representation of the physical transaction record;

scoring the text data with stored transaction data for the electronic transaction; and

matching, by the operation based on the scoring, the digital representation of the physical transaction record to the stored transaction data for the electronic transaction with the expense management application.

20. The non-transitory machine-readable medium of claim 19, wherein the operations further comprise:

transmitting the image with the stored transaction data to a computing device associated with the funding source.