

What is claimed is:

1. ~~A system, comprising:~~

~~a processor; and~~

~~a memory storing instructions which when executed by the processor cause the processor to:~~

~~receive, by a payment application executing on the processor, an indication specifying to generate a payment account with the payment application using a contactless card;~~

~~output, by the payment application, an indication specifying to tap the contactless card to the system;~~

~~receive encrypted data from a communications interface of the contactless card, the encrypted data based on a customer identifier and a private key associated with the contactless card;~~

~~responsive to receiving the encrypted data, transmit the encrypted data to a server associated with the contactless card;~~

~~receive a push notification from the server;~~

~~open an account application associated with the contactless card responsive to receiving selection of the push notification;~~

~~receive, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;~~

~~transmit, by the account application, an indication of the confirmation input to the server;~~

~~open the payment application responsive to the payment application receiving a verification of the encrypted data from the server;~~

~~fill, by the payment application, a plurality of form fields of a form displayed in the payment application with account data received from the server, the account data of an account associated with the contactless card; and~~

~~generate, by the payment application, the payment account using the account data received from the server and filled into the plurality of form fields.~~

~~2. The system of claim 1, the memory storing instructions which when executed by the processor cause the processor to:~~
~~submit, by the payment application to a payment application account server, the form with the account data filled into the plurality of form fields; and~~
~~receive, by the payment application from the payment application account server, an indication specifying that a record for the payment account has been generated and stored in a payment application account database.~~

~~3. The system of claim 1, the received account data of the account to comprise: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v) an account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card.~~

~~4. The system of claim 3, the memory storing instructions which when executed by the processor cause the processor to:~~
~~fill, by the payment application, the first name to a first name form field of the plurality of form fields;~~
~~fill, by the payment application, the last name to a last name form field of the plurality of form fields;~~
~~fill, by the payment application, the email address to an email address form field of the plurality of form fields;~~
~~fill, by the payment application, the address to an address form field of the plurality of form fields;~~
~~fill, by the payment application, the account number to an account number form field of the plurality of form fields;~~
~~fill, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~
~~fill, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~5. The system of claim 1, the received account data of the account to comprise a virtual account number generated for the account associated with the contactless card, an expiration date of the virtual account number, and a card verification value (CVV) of the virtual account number, the memory storing instructions which when executed by the processor cause the processor to:~~

~~fill, by the payment application, the virtual account number to an account number form field of the plurality of form fields;~~

~~fill, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~

~~fill, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~6. The system of claim 1, wherein the encrypted data is transmitted via a hypertext transfer protocol secure (HTTPS) application programming interface (API) call to an API of the server associated with the contactless card, the memory storing instructions which when executed by the processor cause the processor to:~~

~~receive, by the payment application, input specifying to submit the form to generate the payment account.~~

~~7. The system of claim 1, wherein the encrypted data is received from the contactless card based on the contactless card coming within communications range of a card reader of the system.~~

~~8. A non-transitory computer-readable storage medium storing computer-readable program code executable by a processor to cause the processor to:~~
~~receive, by a payment application executing on the processor, an indication specifying to generate a payment account with the payment application using a contactless card;~~

~~output, by the payment application, an indication specifying to tap the contactless card to a device comprising the processor;~~

~~receive encrypted data from a communications interface of the contactless card, the encrypted data based on a customer identifier and a private key associated with the contactless card;~~

~~responsive to receiving the encrypted data, transmit the encrypted data to a server associated with the contactless card;~~

~~receive a push notification from the server;~~

~~open an account application associated with the contactless card responsive to receiving selection of the push notification;~~

~~receive, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;~~

~~transmit, by the account application, an indication of the confirmation input to the server;~~

~~open the payment application responsive to the payment application receiving a verification of the encrypted data from the server;~~

~~fill, by the payment application, a plurality of form fields of a form displayed in the payment application with account data received from the server, the account data of an account associated with the contactless card; and~~

~~generate, by the payment application, the payment account using the account data received from the server and filled into the plurality of form fields.~~

~~9. The non-transitory computer-readable storage medium of claim 8, storing computer-readable program code executable by the processor to cause the processor to:~~

~~submit, by the payment application to a payment application account server, the form with the account data filled into the plurality of form fields; and~~

~~receive, by the payment application from the payment application account server, an indication specifying that a record for the payment account has been generated and stored in a payment application account database.~~

~~10. The non-transitory computer-readable storage medium of claim 8, the received account data of the account to comprise: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v) an account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card.~~

~~11. The non-transitory computer-readable storage medium of claim 10, storing computer-readable program code executable by the processor to cause the processor to:~~

~~fill, by the payment application, the first name to a first name form field of the plurality of form fields;~~

~~fill, by the payment application, the last name to a last name form field of the plurality of form fields;~~

~~fill, by the payment application, the email address to an email address form field of the plurality of form fields;~~

~~fill, by the payment application, the address to an address form field of the plurality of form fields;~~

~~fill, by the payment application, the account number to an account number form field of the plurality of form fields;~~

~~fill, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~

~~fill, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~12. The non-transitory computer-readable storage medium of claim 8, the received account data of the account to comprise a virtual account number generated for the account associated with the contactless card, an expiration date of the virtual account number, and a card verification value (CVV) of the virtual account number, the medium storing computer-readable program code executable by the processor to cause the processor to:~~

~~fill, by the payment application, the virtual account number to an account number form field of the plurality of form fields;~~

~~fill, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~

~~fill, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~13. The non-transitory computer-readable storage medium of claim 8, wherein the encrypted data is transmitted via a hypertext transfer protocol secure (HTTPS) application programming interface (API) call to an API of the server associated with the contactless card, the medium storing computer-readable program code executable by the processor to cause the processor to:~~

~~receive, by the payment application, input specifying to submit the form to generate the payment account.~~

~~14. The non-transitory computer-readable storage medium of claim 8, wherein the encrypted data is received from the contactless card based on the contactless card coming within communications range of a card reader of the device.~~

~~15. A method, comprising:~~

~~receiving, by a payment application executing on a processor of a device, an indication specifying to generate a payment account with the payment application using a contactless card;~~

~~outputting, by the payment application, an indication specifying to tap the contactless card to the device;~~

~~receiving encrypted data from a communications interface of the contactless card, the encrypted data based on a customer identifier and a private key associated with the contactless card;~~

~~responsive to receiving the encrypted data, transmitting the encrypted data to a server associated with the contactless card;~~

~~receiving a push notification from the server;
opening an account application associated with the contactless card responsive to receiving selection of the push notification;~~

~~receiving, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;~~

~~transmitting, by the account application, an indication of the confirmation input to the server;~~

~~opening the payment application responsive to the payment application receiving a verification of the encrypted data from the server;~~

~~filling, by the payment application, a plurality of form fields of a form displayed in the payment application with account data received from the server, the account data of an account associated with the contactless card; and~~

~~generating, by the payment application, the payment account using the account data received from the server and filled into the plurality of form fields.~~

~~16.—The method of claim 15, further comprising:~~

~~submitting, by the payment application to a payment application account server, the form with the account data filled into the plurality of form fields; and~~

~~receiving, by the payment application from the payment application account server, an indication specifying that a record for the payment account has been generated and stored in a payment account database.~~

~~17.—The method of claim 15, the received account data of the account to comprise: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v)~~

~~an account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card~~

~~18. The method of claim 17, further comprising:~~

~~filling, by the payment application, the first name to a first name form field of the plurality of form fields;~~

~~filling, by the payment application, the last name to a last name form field of the plurality of form fields;~~

~~filling, by the payment application, the email address to an email address form field of the plurality of form fields;~~

~~filling, by the payment application, the address to an address form field of the plurality of form fields;~~

~~filling, by the payment application, the account number to an account number form field of the plurality of form fields;~~

~~filling, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~

~~filling, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~19. The method of claim 15, the received account data of the account to comprise a virtual account number generated for the account associated with the contactless card, an expiration date of the virtual account number, and a card verification value (CVV) of the virtual account number, the method further comprising:~~

~~filling, by the payment application, the virtual account number to an account number form field of the plurality of form fields;~~

~~filling, by the payment application, the expiration date to an expiration date form field of the plurality of form fields; and~~

~~filling, by the payment application, the CVV to a CVV form field of the plurality of form fields.~~

~~20. The method of claim 15, wherein the encrypted data is transmitted via a hypertext transfer protocol secure (HTTPS) application programming interface (API) call to an API of the server associated with the contactless card, wherein the~~

~~encrypted data is received from the contactless card based on the contactless card coming within communications range of a card reader of the device, the method further comprising:~~

~~receiving, by the payment application, input specifying to submit the form to generate the payment account.~~

1. A method, comprising:

receiving, by a payment application executing on a processor of a device, an indication specifying to generate a payment account with the payment application using a contactless card;

receiving, by the processor, encrypted data from the contactless card;

transmitting, by the processor, the encrypted data to a server associated with an issuer of the contactless card;

opening, by the processor, an account application associated with the issuer of the contactless card;

receiving, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;

transmitting, by the account application, an indication of the confirmation input to the server associated with the issuer of the contactless card;

opening, by the processor, the payment application responsive to receiving a verification of the encrypted data from the server associated with the issuer of the contactless card; and

generating, by the payment application, the payment account using account data generated by the server associated with the issuer of the contactless card.

2. The method of claim 1, wherein the account data is of an account associated with the contactless card, wherein the payment application is distinct from the account application, the method further comprising:

receiving, by the payment application, the account data from the server associated with the issuer of the contactless card.

3. The method of claim 2, wherein the account data of the account comprises: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v) an

account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card.

4. The method of claim 3, further comprising:

filling, by the payment application, the first name in a first name form field of a plurality of form fields of a form in the payment application;

filling, by the payment application, the last name in a last name form field of the plurality of form fields;

filling, by the payment application, the email address in an email address form field of the plurality of form fields;

filling, by the payment application, the address in an address form field of the plurality of form fields;

filling, by the payment application, the account number in an account number form field of the plurality of form fields;

filling, by the payment application, the expiration date in an expiration date form field of the plurality of form fields;

filling, by the payment application, the CVV in a CVV form field of the plurality of form fields; and

receiving, by the payment application, input specifying to submit the form to generate the payment account.

5. The method of claim 1, wherein the indication of the confirmation is transmitted via a hypertext transfer protocol secure (HTTPS) application programming interface (API) call to an API of the server associated with the issuer of the contactless card.

6. The method of claim 1, further comprising:

receiving, by the processor, a push notification specifying to provide the confirmation input; and

receiving, by the processor, input selecting the push notification, wherein the account application is opened based on the input selecting the push notification.

7. The method of claim 1, wherein the account data of the account to comprise a virtual account number generated for the account associated with the contactless card, an expiration date of the virtual account number, and a card verification value (CVV) of the virtual account number, the method further comprising:

displaying, by the payment application, the virtual account number in an account number form field of a plurality of form fields of a form in the payment application;

displaying, by the payment application, the expiration date in an expiration date form field of the plurality of form fields of the form;

displaying, by the payment application, the CVV in a CVV form field of the plurality of form fields of the form; and

receiving, by the payment application, input specifying to submit the form to generate the payment account.

8. A non-transitory computer-readable storage medium, the computer-readable storage medium including instructions that when executed by a processor, cause the processor to:

receive, by a payment application, an indication specifying to generate a payment account with the payment application using a contactless card;

receive encrypted data from the contactless card;

transmit the encrypted data to a server associated with an issuer of the contactless card;

open an account application associated with the issuer of the contactless card;

receive, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;

transmit, by the account application, an indication of the confirmation input to the server associated with the issuer of the contactless card;

open the payment application responsive to receiving a verification of the encrypted data from the server associated with the issuer of the contactless card;

and

generate, by the payment application, the payment account using account data generated by the server associated with the issuer of the contactless card.

9. The computer-readable storage medium of claim 8, wherein the account data is of an account associated with the contactless card, wherein the payment application is distinct from the account application, wherein the instructions further cause the processor to:

receive, by the payment application, the account data from the server associated with the issuer of the contactless card.

10. The computer-readable storage medium of claim 9, wherein the account data of the account comprises: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v) an account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card.

11. The computer-readable storage medium of claim 10, wherein the instructions further cause the processor to:

fill, by the payment application, the first name in a first name form field of a plurality of form fields of a form in the payment application;

fill, by the payment application, the last name in a last name form field of the plurality of form fields;

fill, by the payment application, the email address in an email address form field of the plurality of form fields;

fill, by the payment application, the address in an address form field of the plurality of form fields;

fill, by the payment application, the account number in an account number form field of the plurality of form fields;

fill, by the payment application, the expiration date in an expiration date form field of the plurality of form fields;

fill, by the payment application, the CVV in a CVV form field of the plurality of form fields; and

receive, by the payment application, input specifying to submit the form to generate the payment account.

12. The computer-readable storage medium of claim 8, wherein the indication of the confirmation is transmitted via a hypertext transfer protocol secure (HTTPS) application program interface (API) call to an API of the server associated with the issuer of the contactless card.

13. The computer-readable storage medium of claim 8, wherein the instructions further cause the processor to:

receive a push notification specifying to provide the confirmation input; and

receive input selecting the push notification, wherein the account application is opened based on the input selecting the push notification.

14. The computer-readable storage medium of claim 8, wherein the account data of the account to comprise a virtual account number generated for the account associated with the contactless card, an expiration date of the virtual account number, and a card verification value (CVV) of the virtual account number, wherein the instructions further cause the processor to:

display, by the payment application, the virtual account number in an account number form field of a plurality of form fields of a form in the payment application;

display, by the payment application, the expiration date in an expiration date form field of the plurality of form fields of the form;

display, by the payment application, the CVV in a CVV form field of the plurality of form fields of the form; and

receive, by the payment application, input specifying to submit the form to generate the payment account.

15. A computing apparatus comprising:

a processor; and

a memory storing instructions that, when executed by the processor, cause the processor to:

receive, by a payment application, an indication specifying to generate a payment account with the payment application using a contactless card;

receive encrypted data from the contactless card;

transmit the encrypted data to a server associated with an issuer of the contactless card;

open an account application associated with the issuer of the contactless card;

receive, by the account application, confirmation input specifying to generate the payment account with the payment application using the contactless card;

transmit, by the account application, an indication of the confirmation input to the server associated with the issuer of the contactless card;

open the payment application responsive to receiving a verification of the encrypted data from the server associated with the issuer of the contactless card; and

generate, by the payment application, the payment account using account data generated by the server associated with the issuer of the contactless card.

16. The computing apparatus of claim 15, wherein the account data is of an account associated with the contactless card, wherein the payment application is distinct from the account application.

17. The computing apparatus of claim 16, wherein the account data of the account comprises: (i) a first name, (ii) a last name, (iii) an email address, (iv) an address, (v) an account number of the contactless card, (vi) an expiration date of the contactless card, and (vii) a card verification value (CVV) of the contactless card.

18. The computing apparatus of claim 17, wherein the instructions further cause the processor to:

fill, by the payment application, the first name in a first name form field of a plurality of form fields of a form in the payment application;

fill, by the payment application, the last name in a last name form field of the plurality of form fields;

fill, by the payment application, the email address in an email address form field of the plurality of form fields;

fill, by the payment application, the address in an address form field of the plurality of form fields;

fill, by the payment application, the account number in an account number form field of the plurality of form fields;

fill, by the payment application, the expiration date in an expiration date form field of the plurality of form fields;

fill, by the payment application, the CVV in a CVV form field of the plurality of form fields; and

receive, by the payment application, input specifying to submit the form to generate the payment account.

19. The computing apparatus of claim 15, wherein the indication of the confirmation is transmitted via a hypertext transfer protocol secure (HTTPS) application program interface (API) call to an API of the server associated with the issuer of the contactless card, wherein the instructions further cause the processor to:

receive, by the payment application, the account data from the server associated with the issuer of the contactless card.

20. The computing apparatus of claim 15, wherein the instructions further cause the processor to:

receive a push notification specifying to provide the confirmation input; and
receive input selecting the push notification, wherein the account application is opened based on the input selecting the push notification.