PayString Design Best Practices

Contents

Overview

This design guideline document provides consistent principles and best practices for teams that want to add PayString to their existing application logic, user experience, and flows.

This document uses a sample iOS app design called WalletCo to demonstrate key experiences.
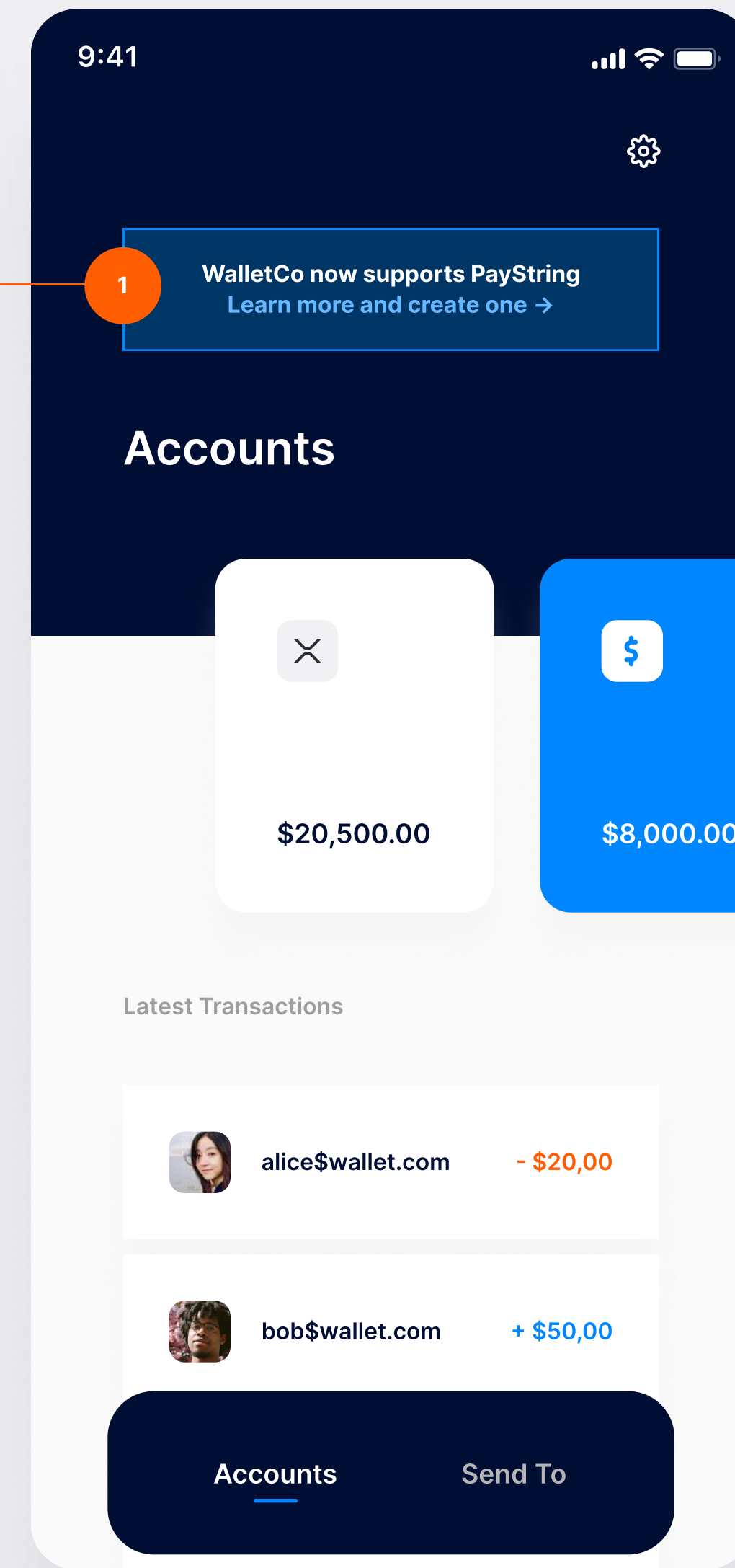
Creating PayString

Introducing PayString

Here are two simple ways to introduce PayString to your users:

1. Add a PayString creation screen to your onboarding flow. This addresses first-time users who are creating an account.

2. Add a notification that tells existing users that your app now supports PayString.

This image illustrates how to introduce PayString through an in-app message.

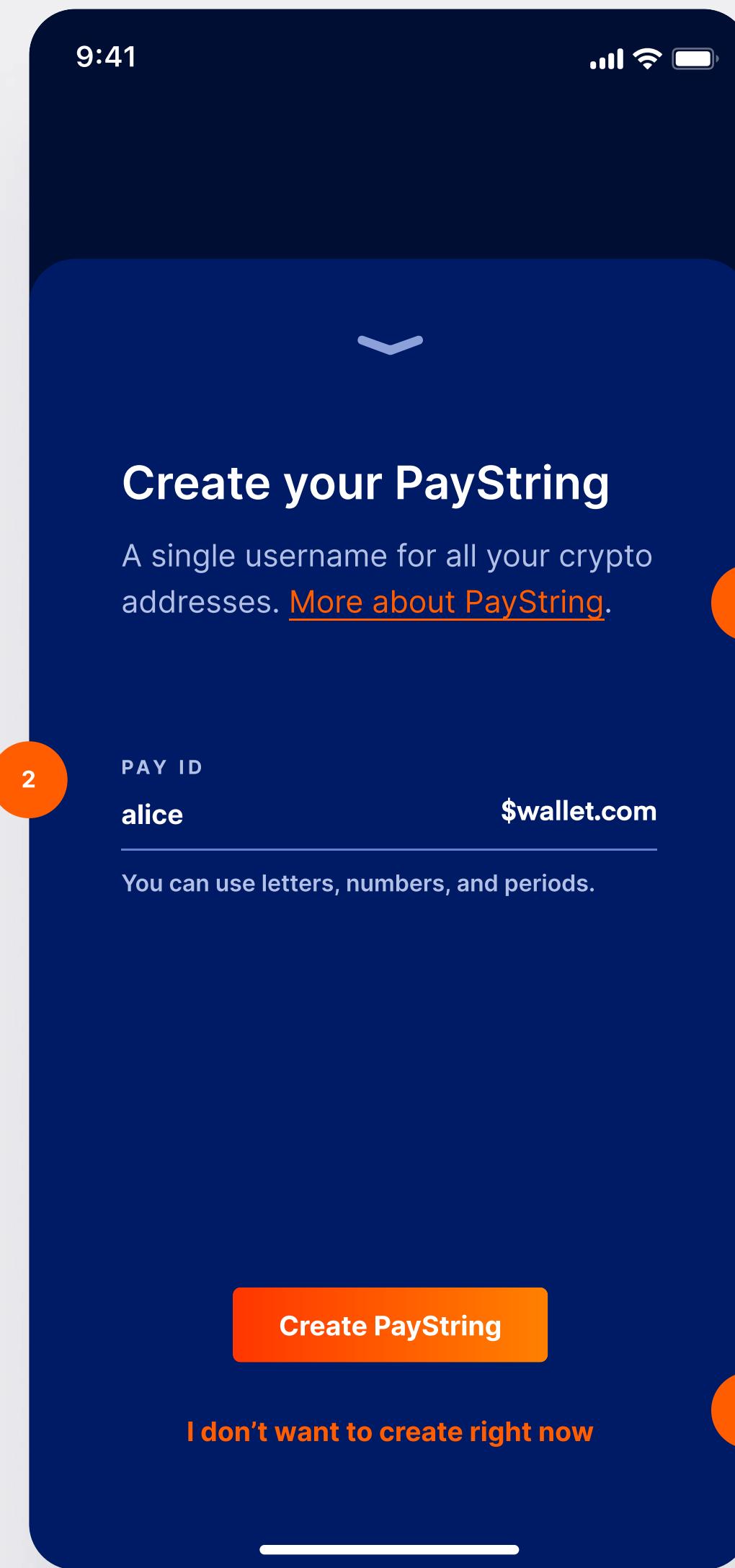Example notification that links users to the PayString creation flow.

WalletCo now supports PayString
Learn more and create one →

9:41

Accounts

$20,500.00

$8,000.00

Latest Transactions

alice$wallet.com   - $20,00

bob$wallet.com   + $50,00

Accounts   Send To

PayString

Creating a PayString

Creating a PayString should feel similar to selecting a username for an email address or Twitter handle.

9:41

Create your PayString

A single username for all your crypto addresses. More about PayString.

PAY ID

alice $wallet.com

You can use letters, numbers, and periods.

Create PayString

I don't want to create right now

1

Display a brief description of PayString and a link to learn more.

2

Allow a range of 6-30 characters. PayString only supports Latin letters, numbers, and periods.

3

Allow users to opt out or skip this step.
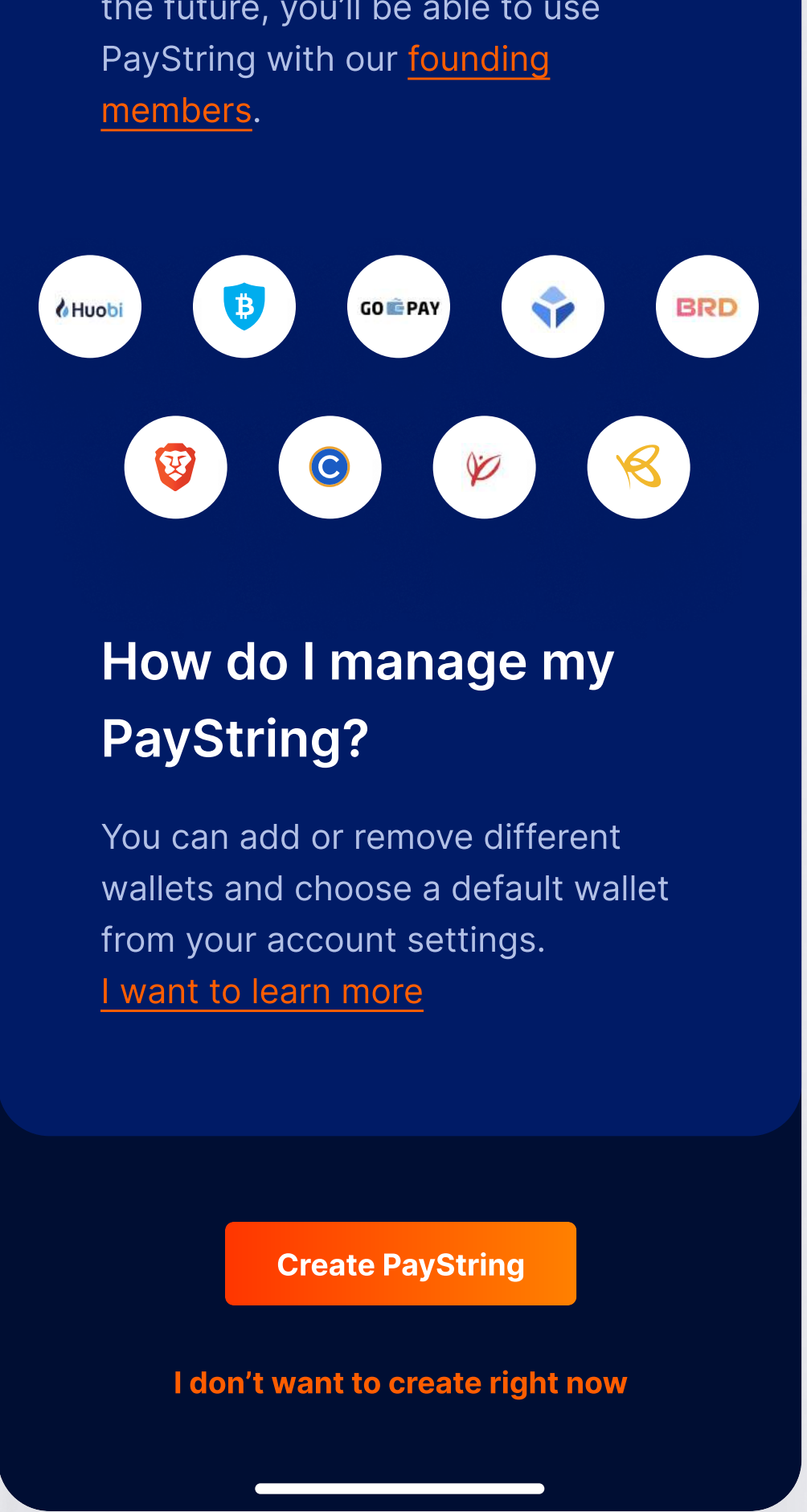
Confirm PayString Creation

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Display a confirmation screen that confirms the user successfully created a PayString.
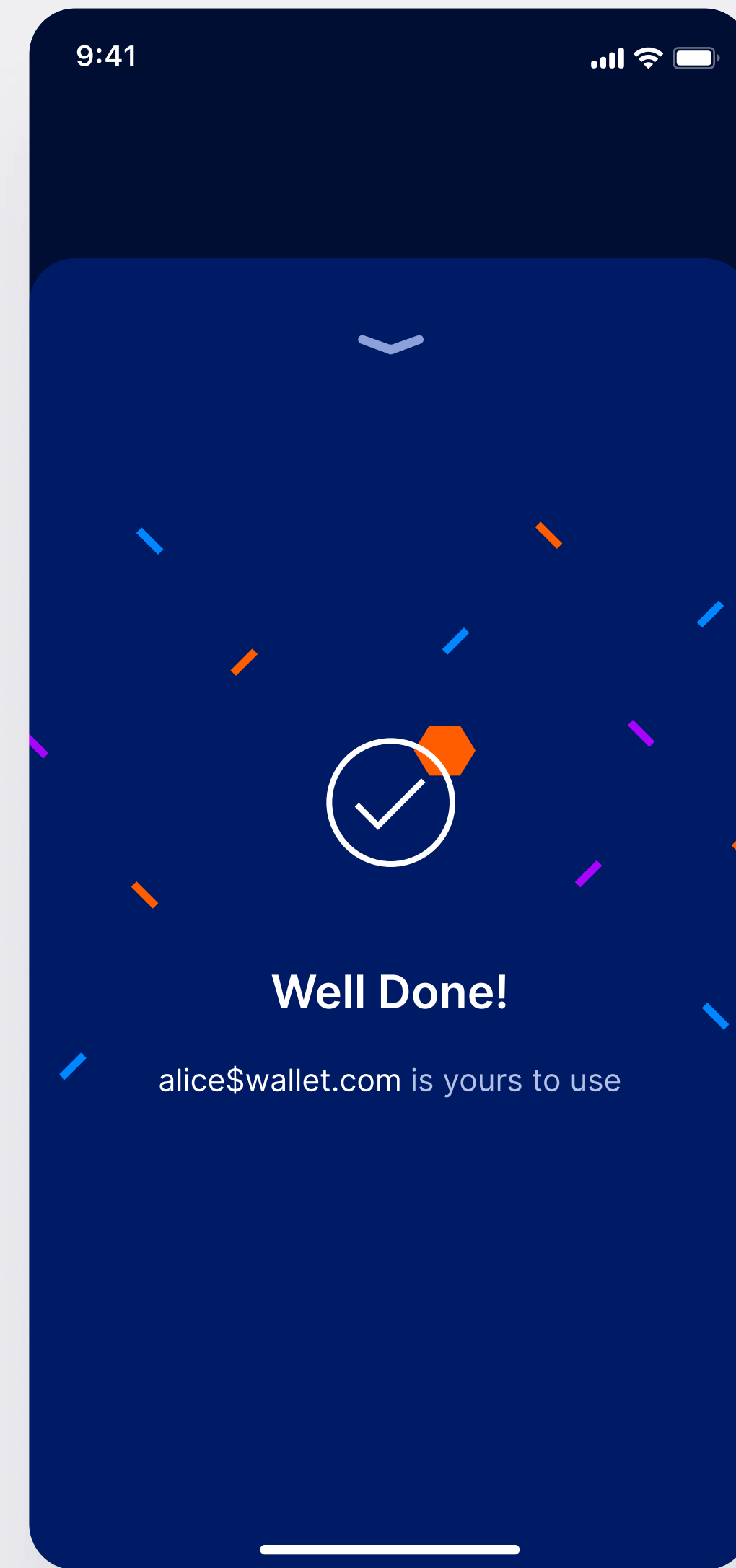
More about PayString
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Before a user creates a PayString, provide more information about PayString, including what it is and how it improves your app's user experience.

This guide discusses commonly asked questions for users learning about PayString for the first time.

9:41

What is a PayString?

A PayString is a payment ID for users to send money to. You can link multiple crypto wallets to your PayString, so that it can serve as a single payment ID for you to receive money across all your wallets.

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the future, you'll be able to use PayString with our founding members.

How do I manage my PayString?

You can add or remove different wallets and choose a default wallet from your account settings.
I want to learn more

Create PayString

I don't want to create right now

Settings

PayString

PayString Settings

——

In your app's global settings menu, add more settings for the user to manage their PayString.

Enable or disable PayString toggle.

9:41

PayString Settings

ENABLE/DISABLE

alice$wallet.com ●

1

PREFERRED PAYMENT NETWORK

XRP ⌄

2

An option for a user to specify a preferred payment network to use when sending payments. No need to ask each time.

Display Currency   USD ›

Notifications   ›

About   ›
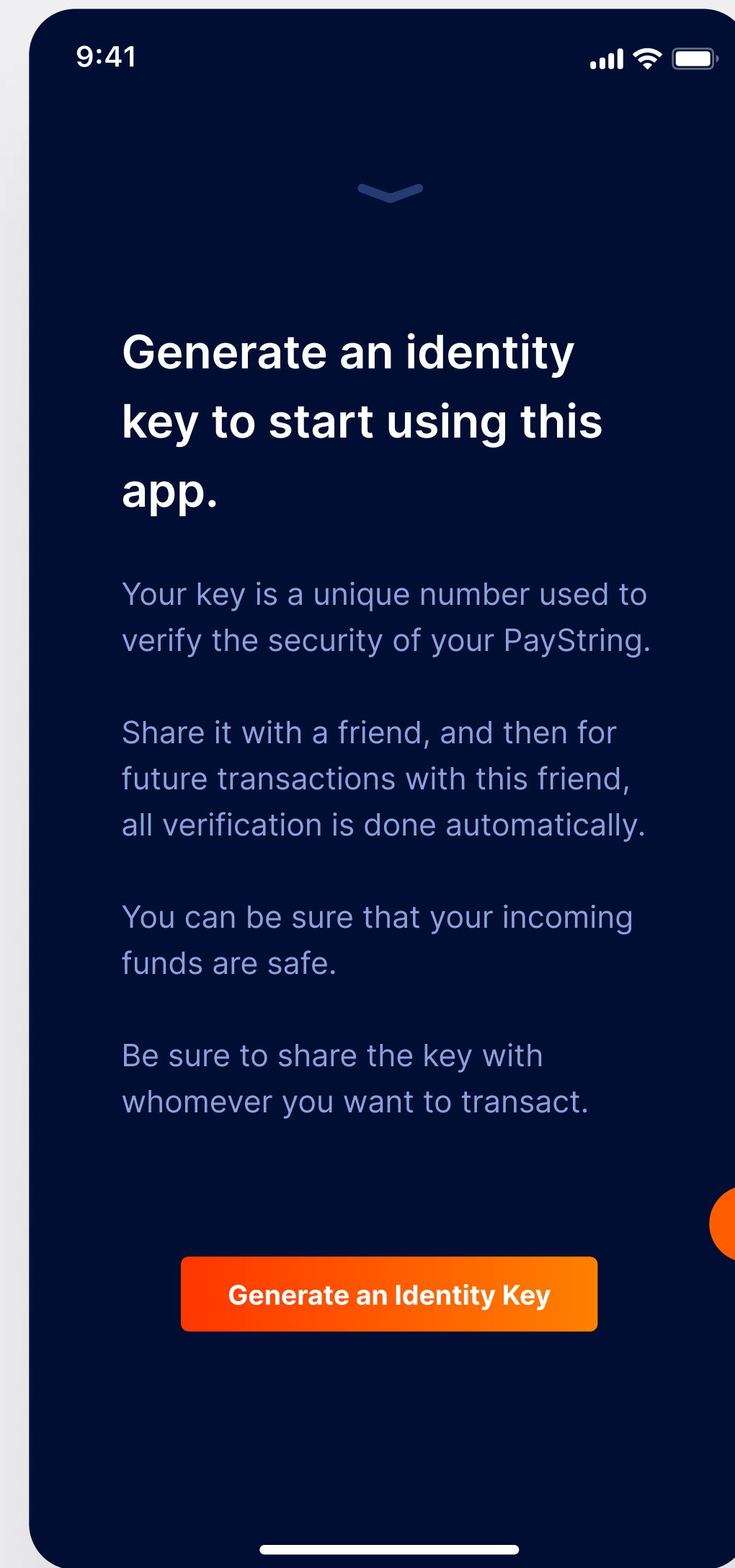
PayString

Verifiable PayString

Verifiable PayString

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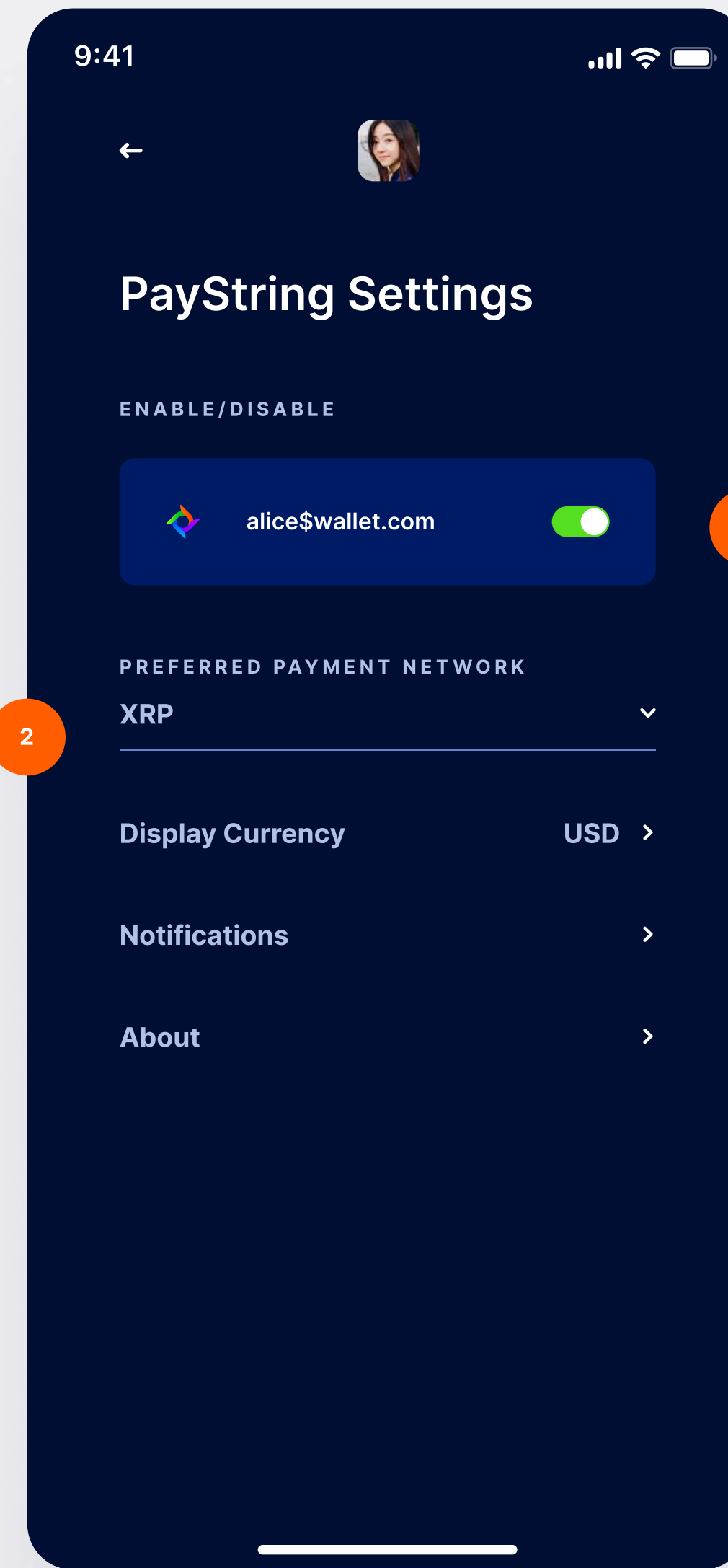
Verifiable PayString provides enhanced security to the base PayString request and response. Verifiable PayString adds several digital signature fields so you can:

-Securely manage your PayString without needing to trust the PayString server
-Track your friends' keys to automatically verify the integrity of their PayString
-Alert you when a PayString is invalid, before you send a payment

Identity Key
Your Identity Key is a unique number that allows you and your friends to verify the security of your PayString. Once you share your Identity Key with your friends, all verification is done automatically so that you can be sure your incoming funds are safe.

9:41

Generate an identity key to start using this app.

Your key is a unique number used to verify the security of your PayString.

Share it with a friend, and then for future transactions with this friend, all verification is done automatically.

You can be sure that your incoming funds are safe.

Be sure to share the key with whomever you want to transact.
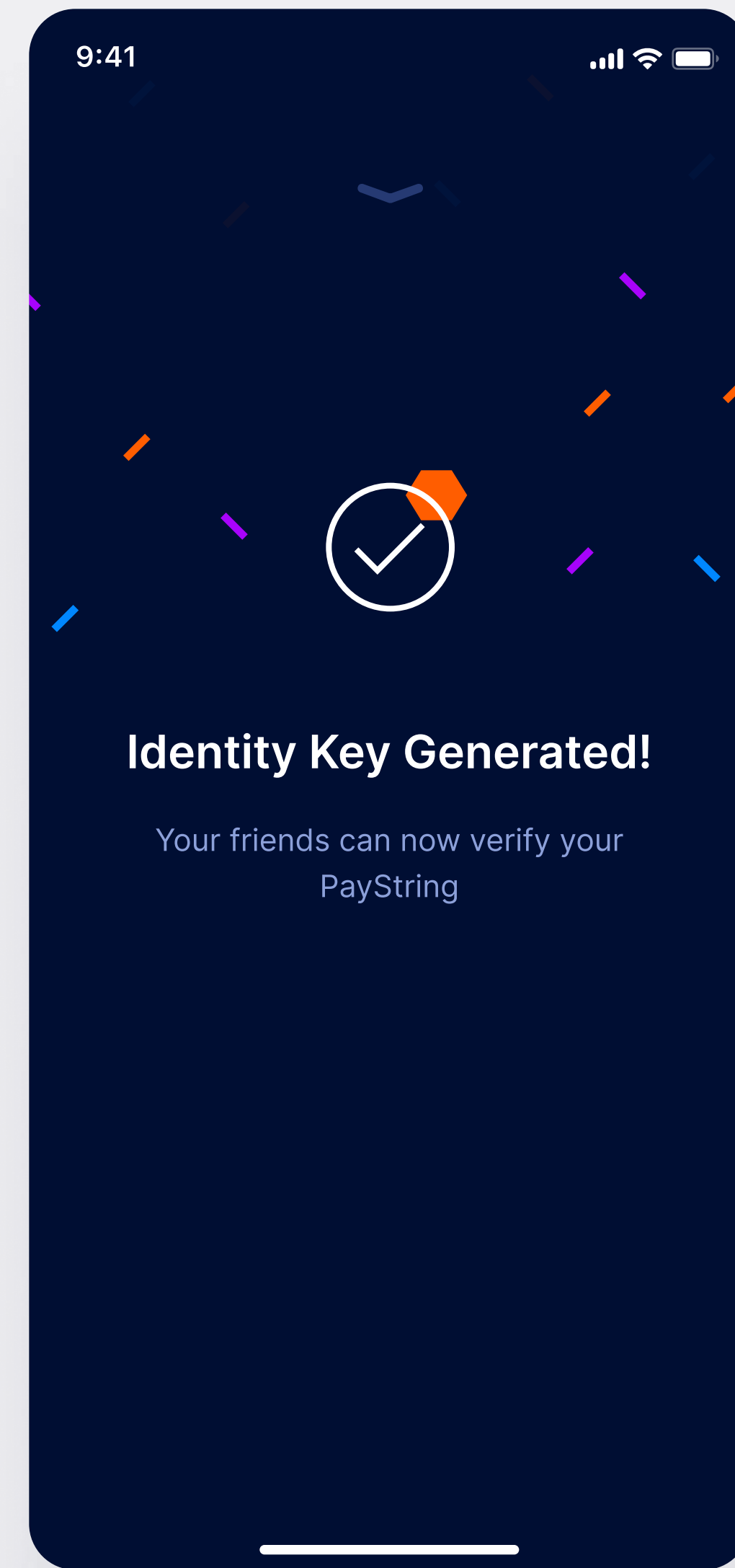
Generate an Identity Key

1

Generate a key to allow your friends to verify your PayString.

PayString

Verifiable PayString

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A confirmation screen informs the user that the key has been successfully generated.

This only needs to be done once.

Identity Key Generated!

Your friends can now verify your PayString

Verifiable PayString

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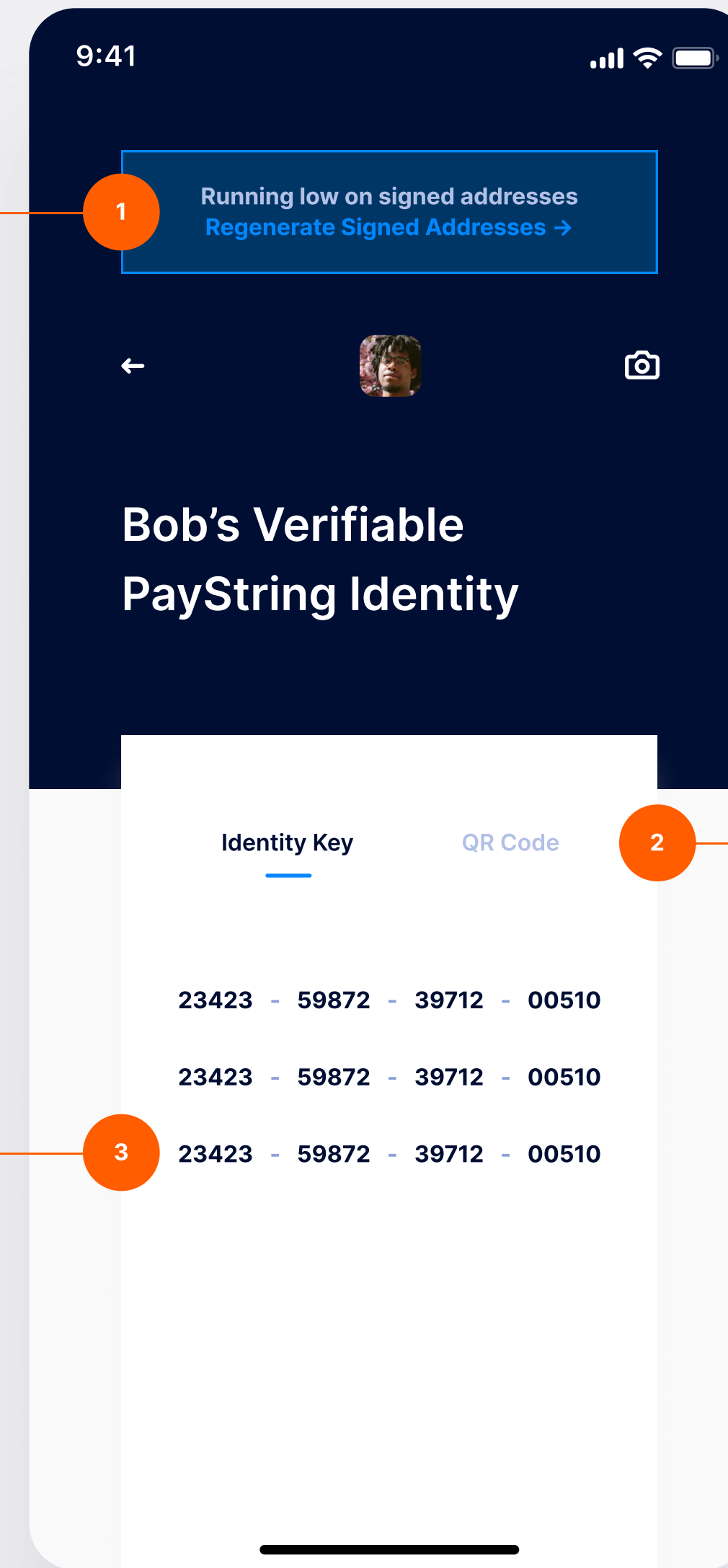If you want to verify a user before sending, you have two options:

First, you can share your Identity Key and let your friend compare it on their device.

Alternatively, if you are near your friend, you can share your QR code and allow your friend to scan it.

PayString lets you easily rotate network addresses. Click "Regenerate Signed Addresses" if you have run out of mappings and you need to sign new ones.

Your QR Code allows your friend to verify before transacting.

Share your Identity Key if your friend wants to verify your PayString.

9:41

1 Running low on signed addresses
Regenerate Signed Addresses →

Bob's Verifiable PayString Identity

Identity Key   QR Code   2

23423 – 59872 – 39712 – 00510

23423 – 59872 – 39712 – 00510
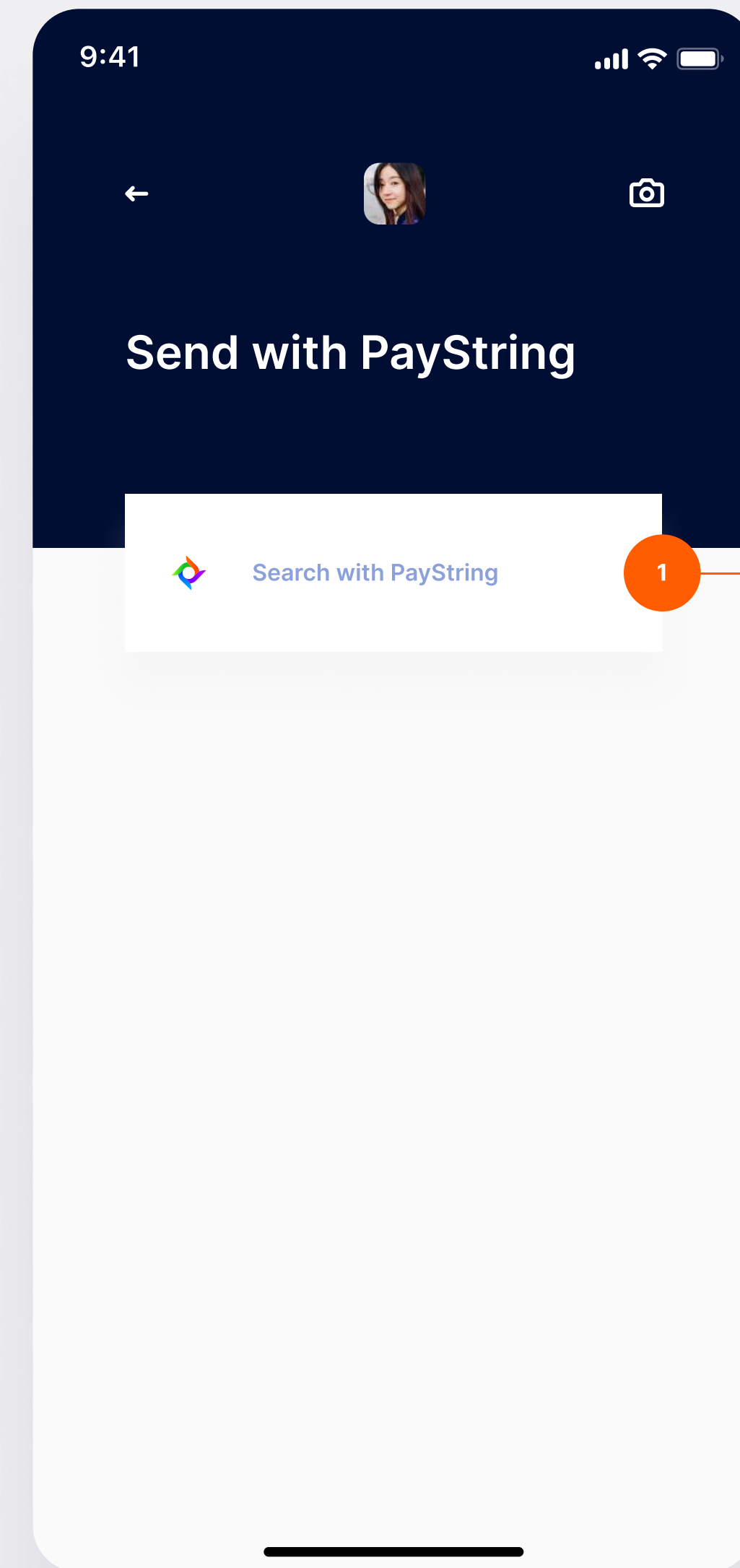
3 23423 – 59872 – 39712 – 00510

Verifiable PayString

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A confirmation screen informs the user that the new addresses have been signed successfully.
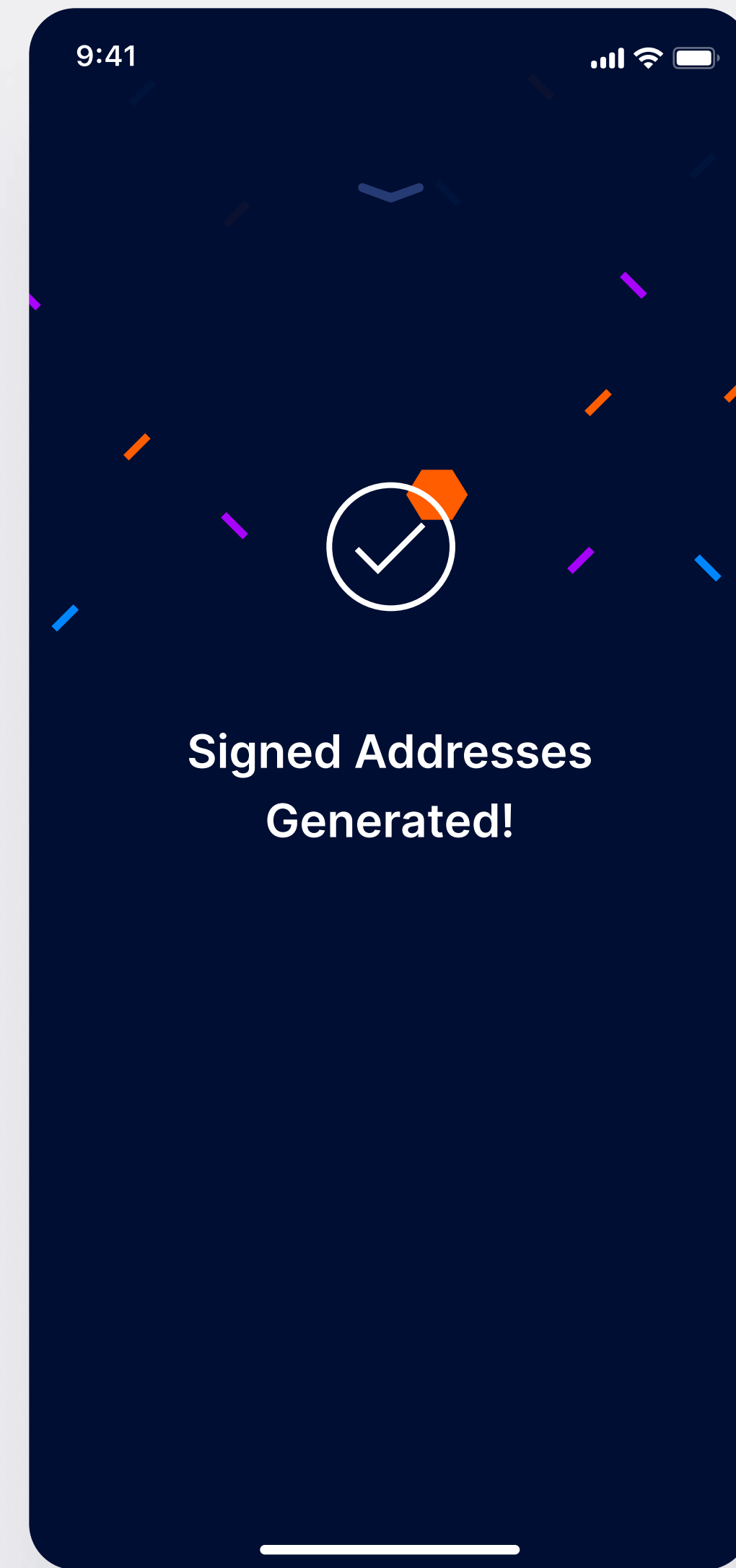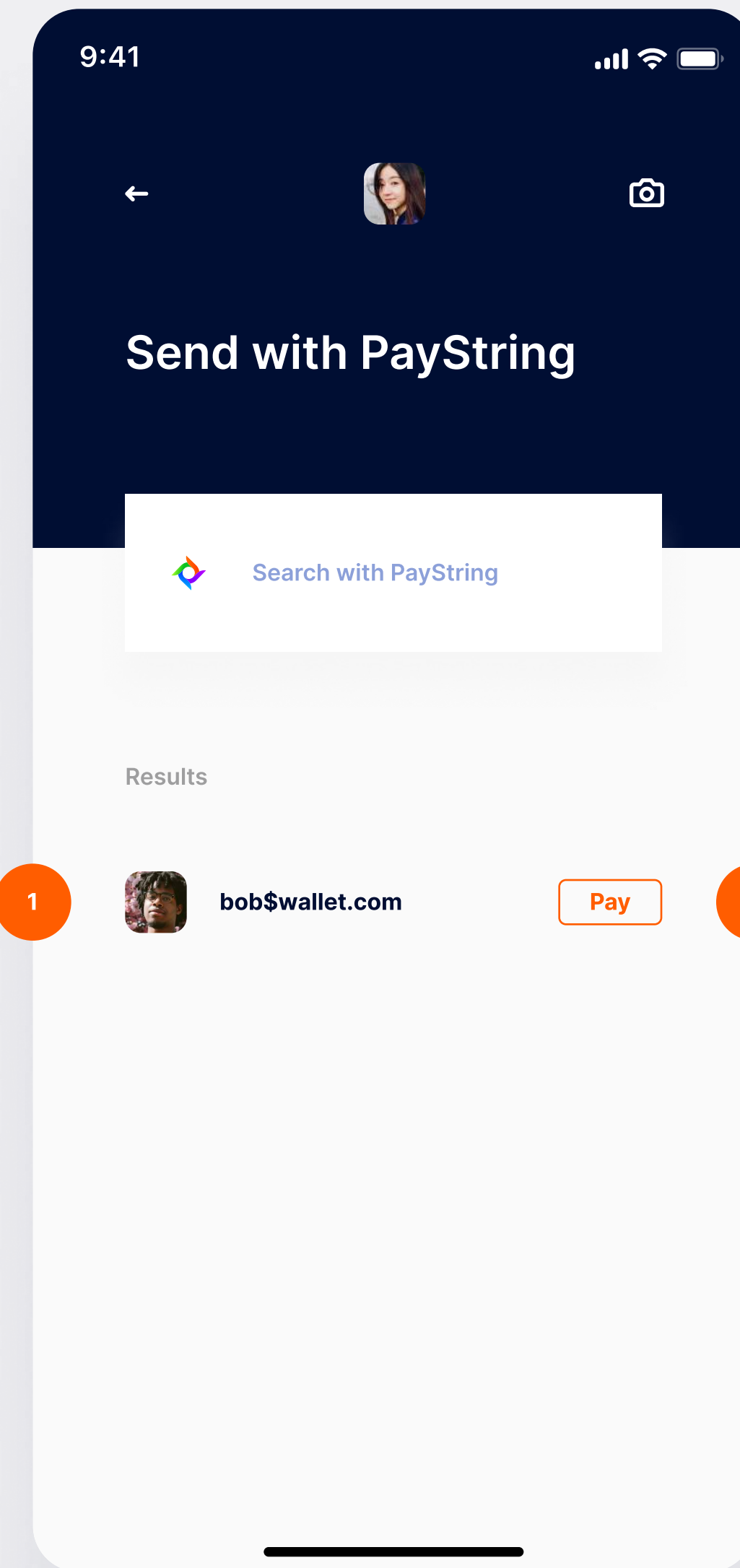
Verifiable PayString

Searching with PayString should be straightforward. Enter their wallet name in the address field on your app to get results.

Search box allows you to find PayStrings

Verifiable PayString

"bob$wallet.com" as the result of your search.

9:41

Send with PayString

Search with PayString

Results

bob$wallet.com   **Pay**

1   **2**

Click the "Pay" button to start the payment or verifcation process.

PayString

Verifiable PayString

———

The first time you click on Pay, you can verify a PayString.

To verify the security of their PayString, compare the Identity Key below to the Identity Key shown in their wallet. Click the "Mark as Verified" button as the last step.

9:41

Cancel

Verify Bob's Account Using the Following Identity Key

If you wish to verify the security of Bob's PayString... Read More

Identity Key   QR Code

23423 - 59872 - 39712 - 00510

23423 - 59872 - 39712 - 00510

23423 - 59872 - 39712 - 00510

Tap the button if you want to verify

1

Mark as Verified

Skip

2

Click the "Skip" button if you want to go to the payment process without verifying.
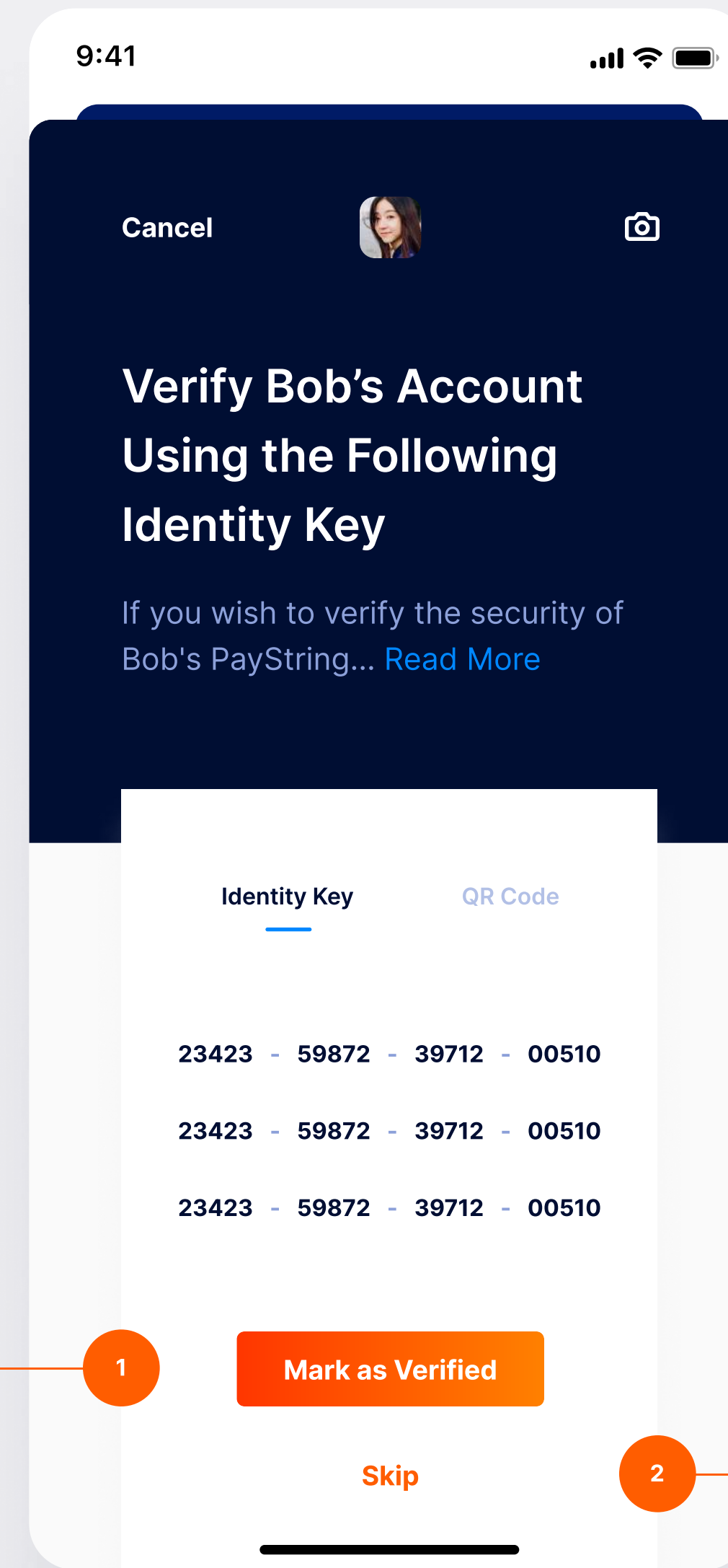
PayString

Verifiable PayString

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Alternatively, you can scan the QR Code on your phone for a match to verify their public key. This feature will open the phone camera.

9:41

Cancel

Scan QR Code

1
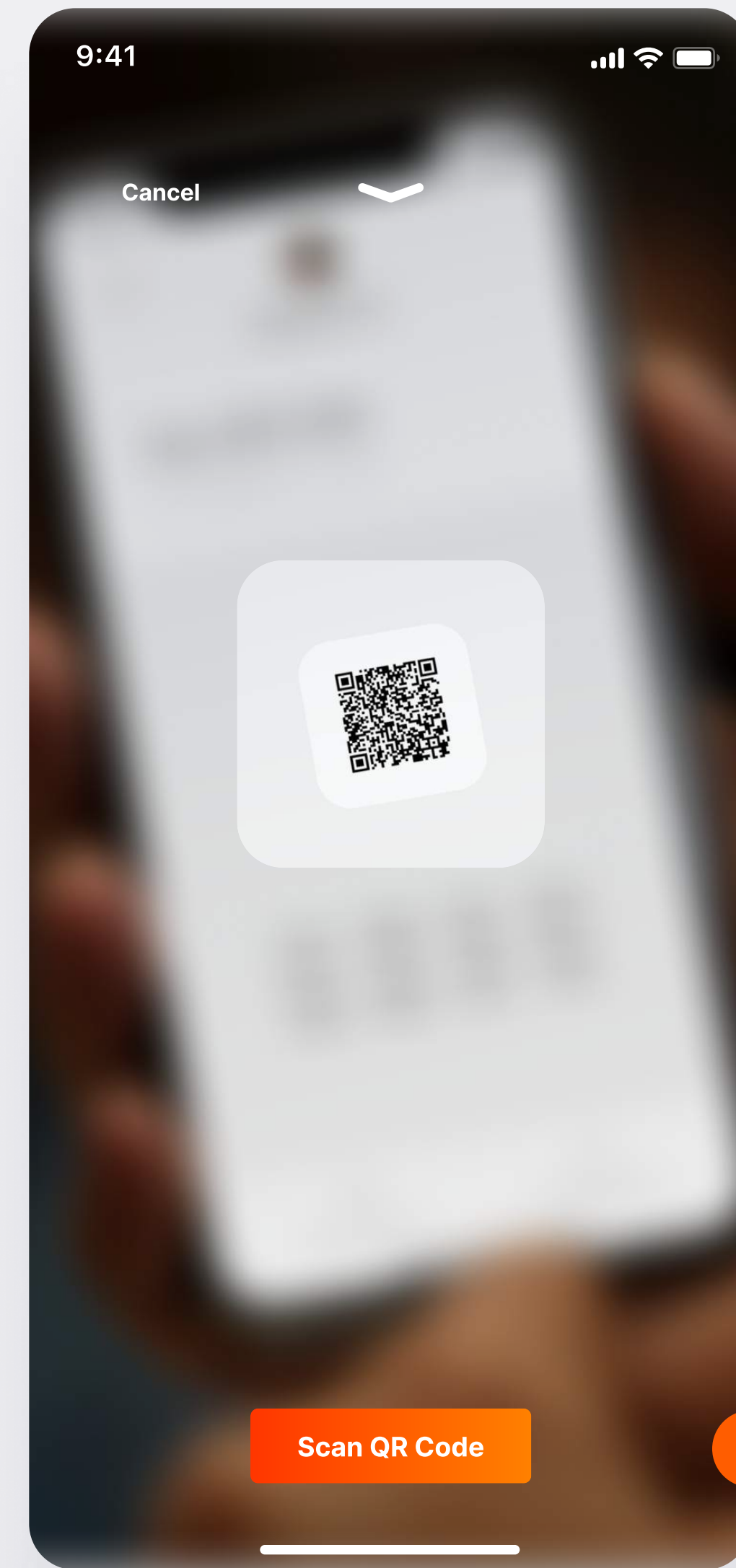
Hit the "Scan QR Code" button when you are ready.

PayString

Verifiable PayString

—

The confirmation screen informs the user that their friend has been successfully verified.

Great Job Alice!

Bob's PayString is verified and safe now.