

# PayString Design Best Practices

# Contents

**Overview →**

**Creating a PayString →**

**Settings →**

**Verifiable PayString →**

# 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

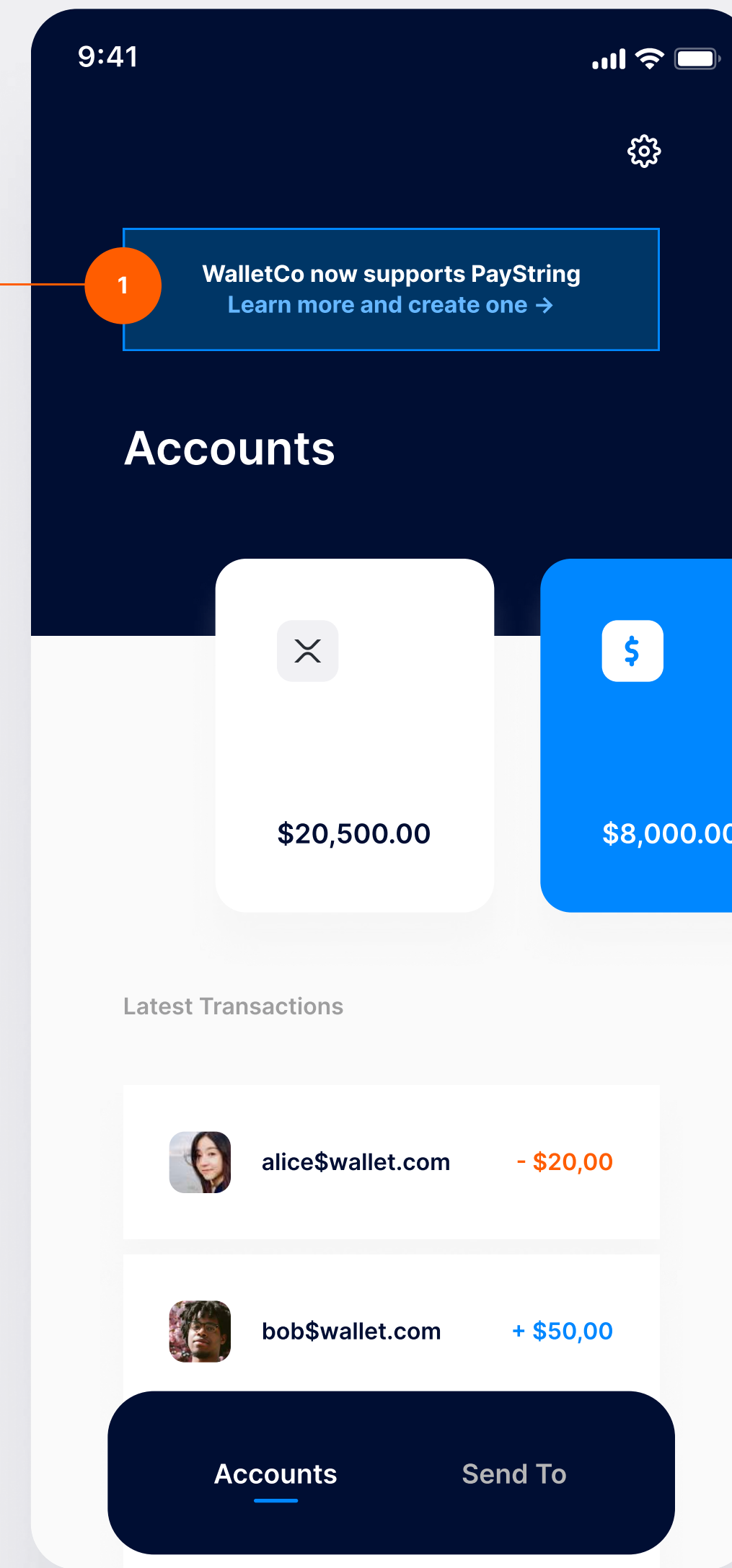
## Introducing PayString

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.



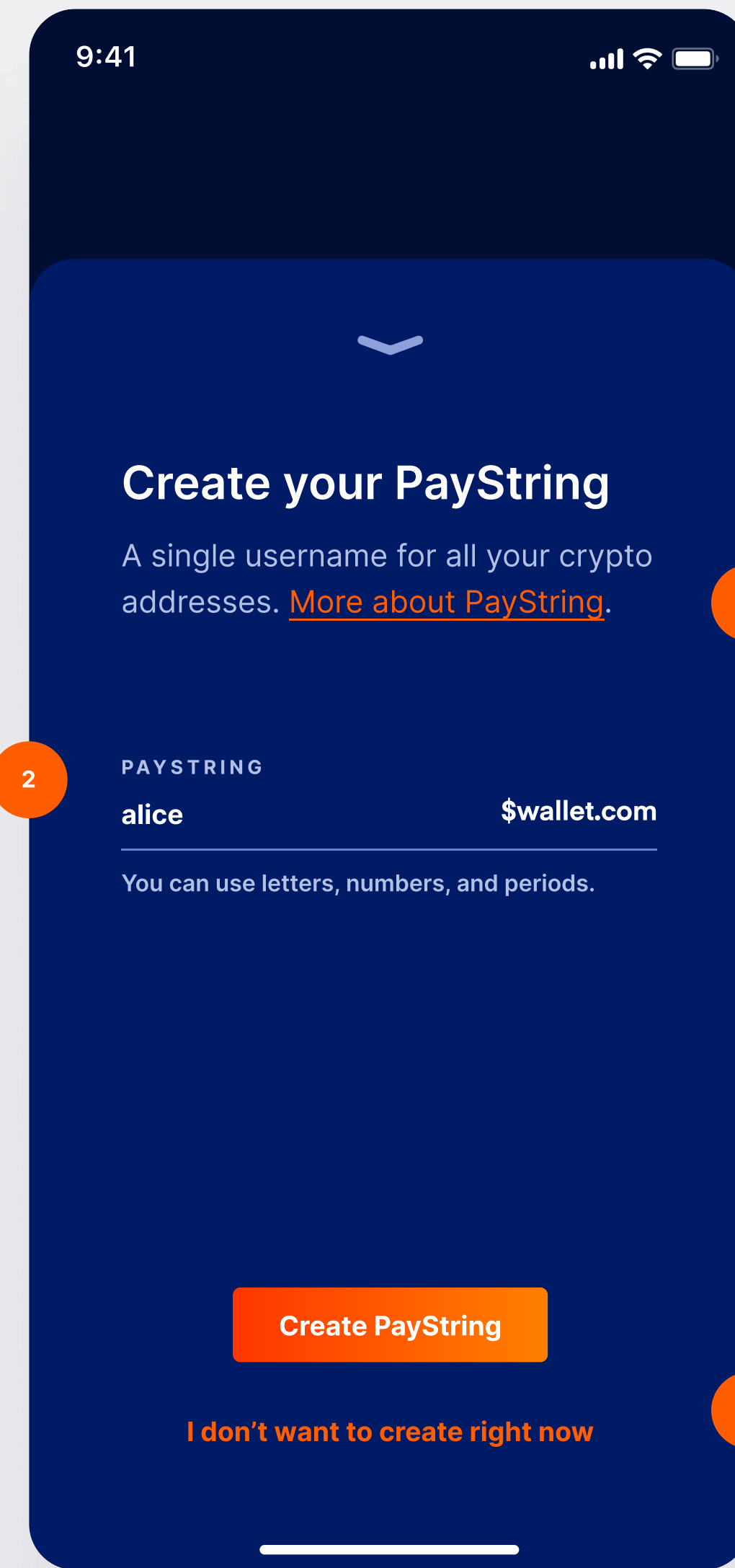
## Creating a PayString

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

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

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

Allow users to opt out or skip this step.



The mockup shows a mobile app interface for creating a PayString. At the top, the status bar shows the time 9:41 and signal/battery icons. Below is a dark blue header with a white chevron icon. The main content area is also dark blue and contains the title 'Create your PayString' in white, followed by a description: 'A single username for all your crypto addresses. [More about PayString.](#)'. Below this is a form with the label 'PAYSTRING' in all caps. The input field contains 'alice' and the domain '\$wallet.com' is shown to the right. A note below the input field states: 'You can use letters, numbers, and periods.' At the bottom, there are two buttons: an orange 'Create PayString' button and a text link 'I don't want to create right now'.

9:41

Create your PayString

A single username for all your crypto addresses. [More about PayString.](#)

PAYSTRING

alice \$wallet.com

You can use letters, numbers, and periods.

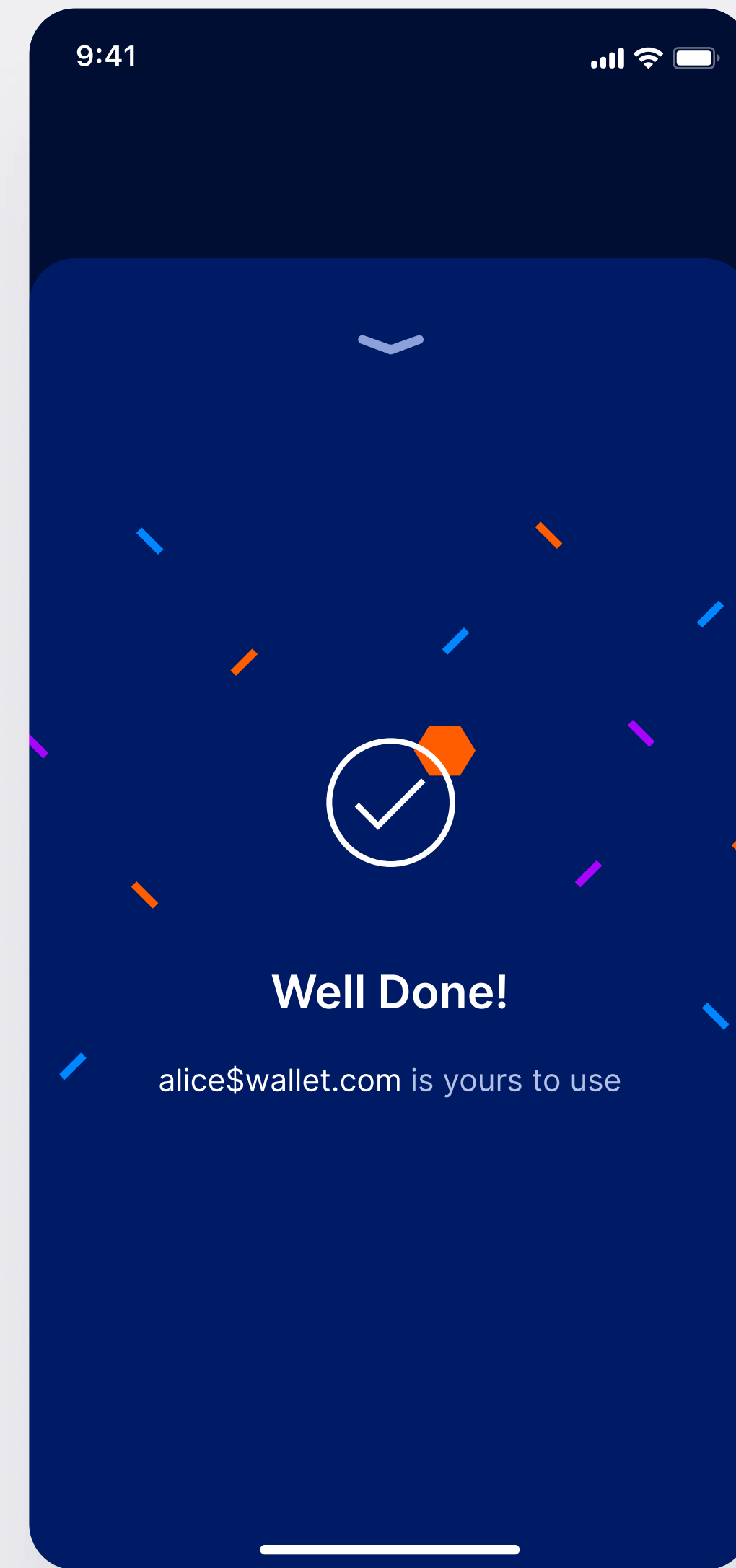
Create PayString

I don't want to create right now

## Confirm PayString Creation

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Display a confirmation screen that confirms the user successfully created a PayString.

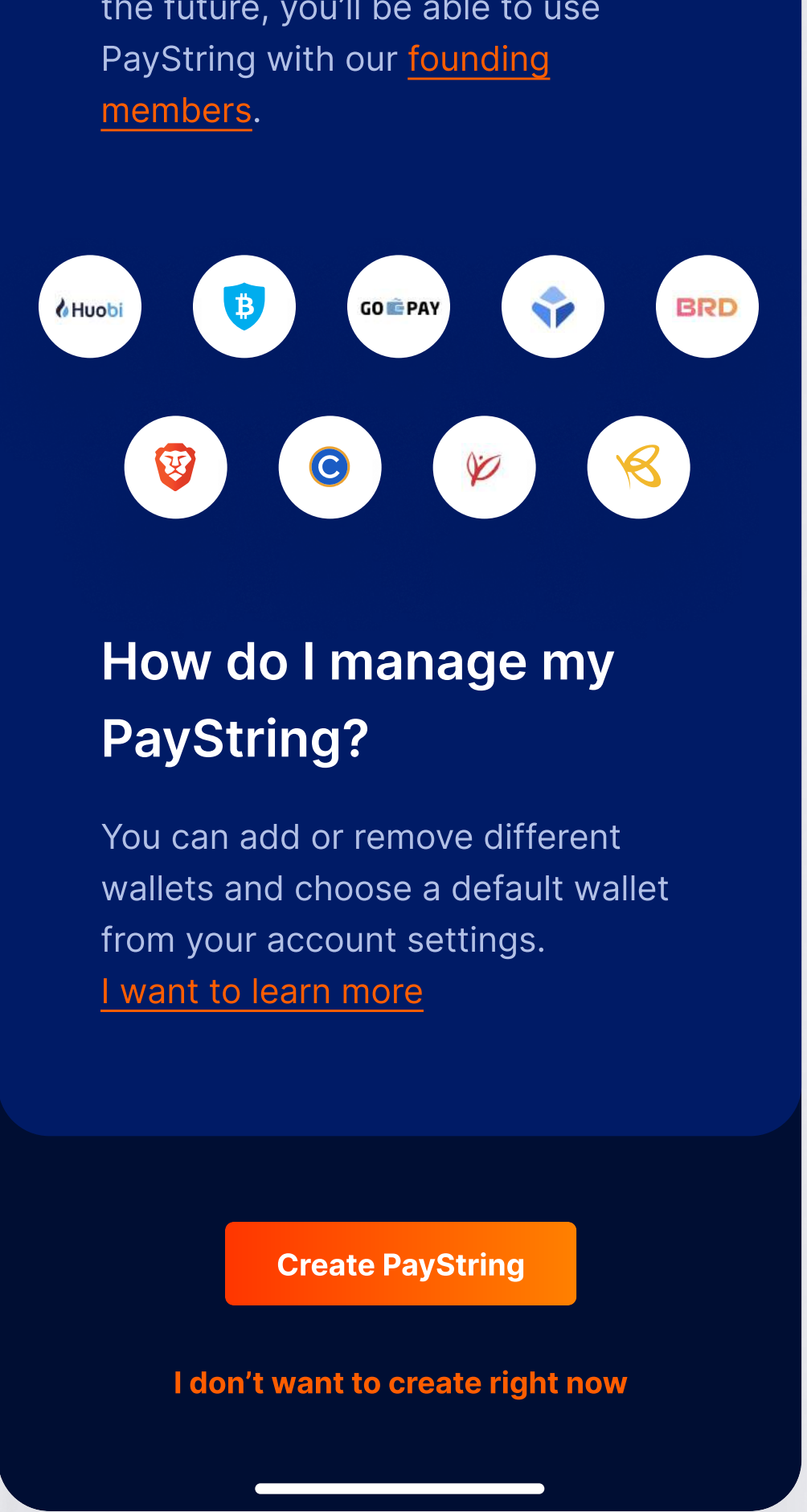
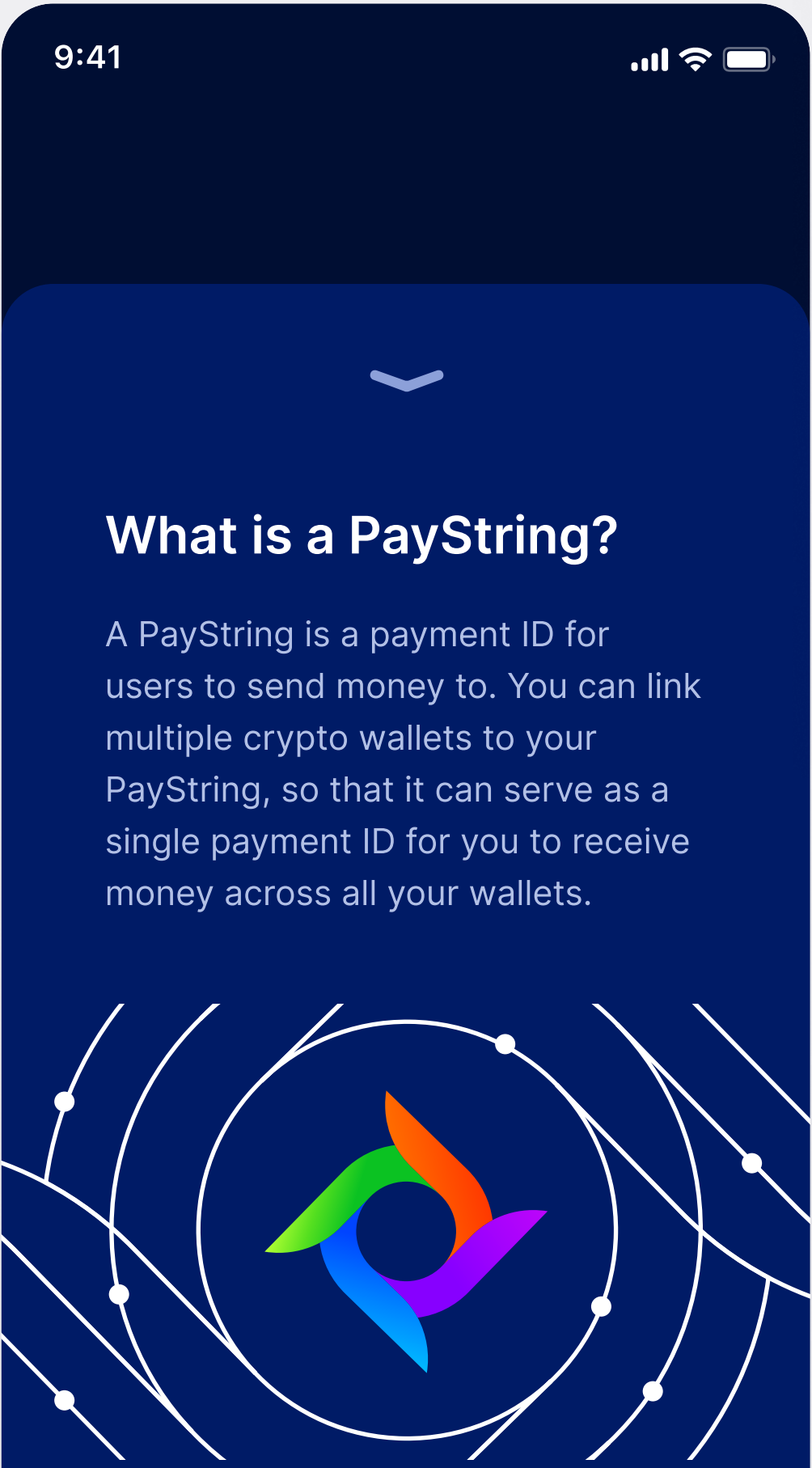




## More about PayString

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.





# Settings

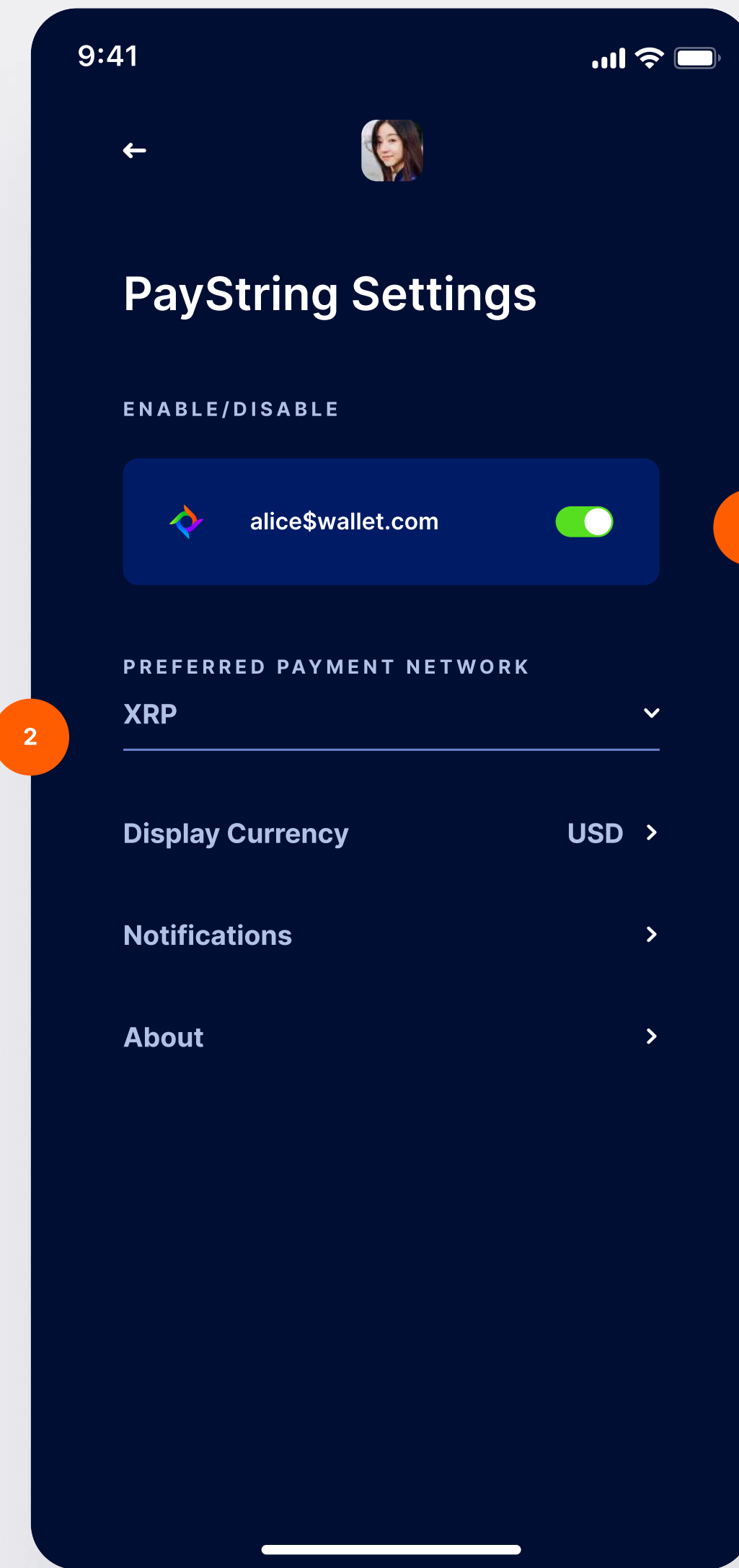
## PayString Settings

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

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

Enable or disable PayString toggle.



# Verifiable PayString

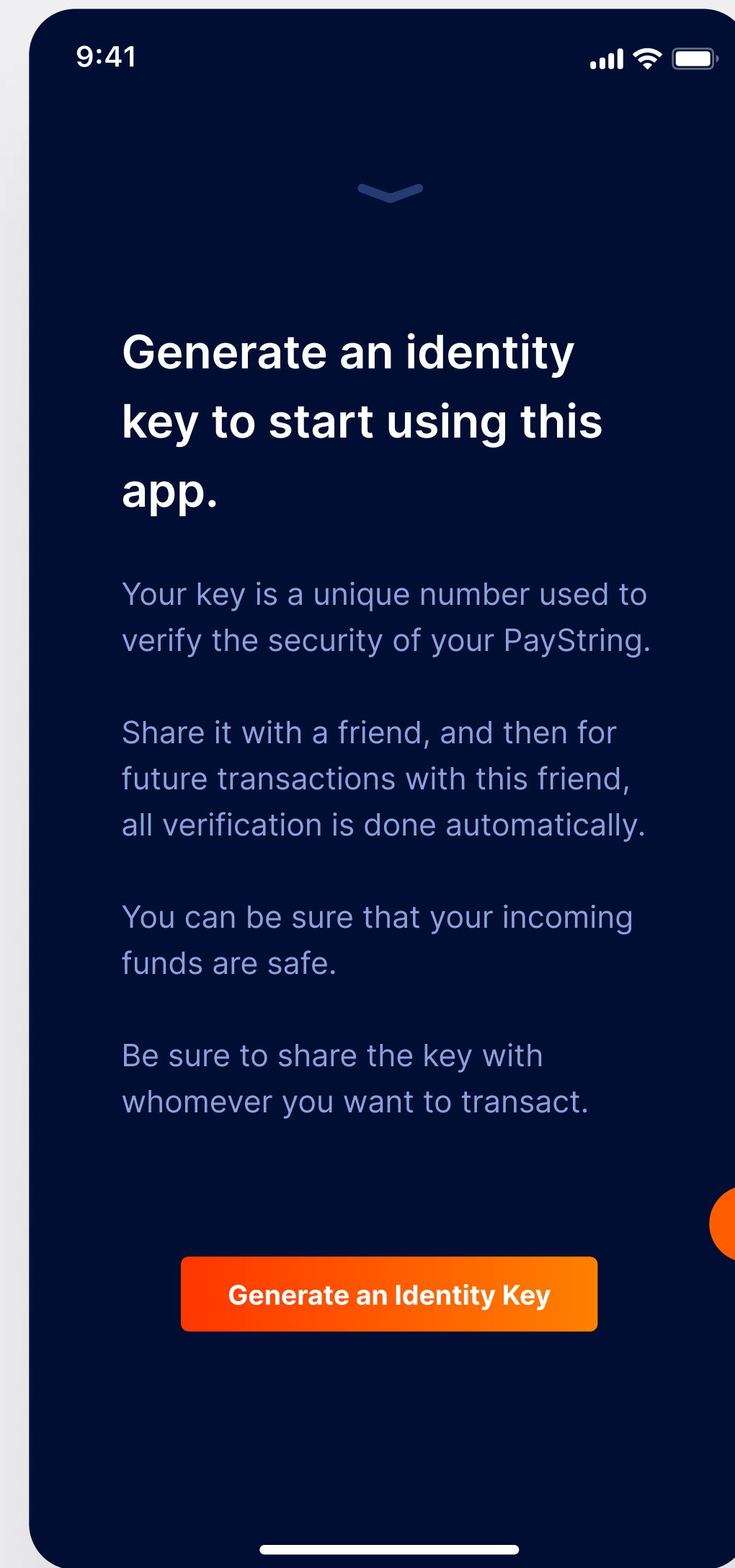
## Verifiable PayString

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.



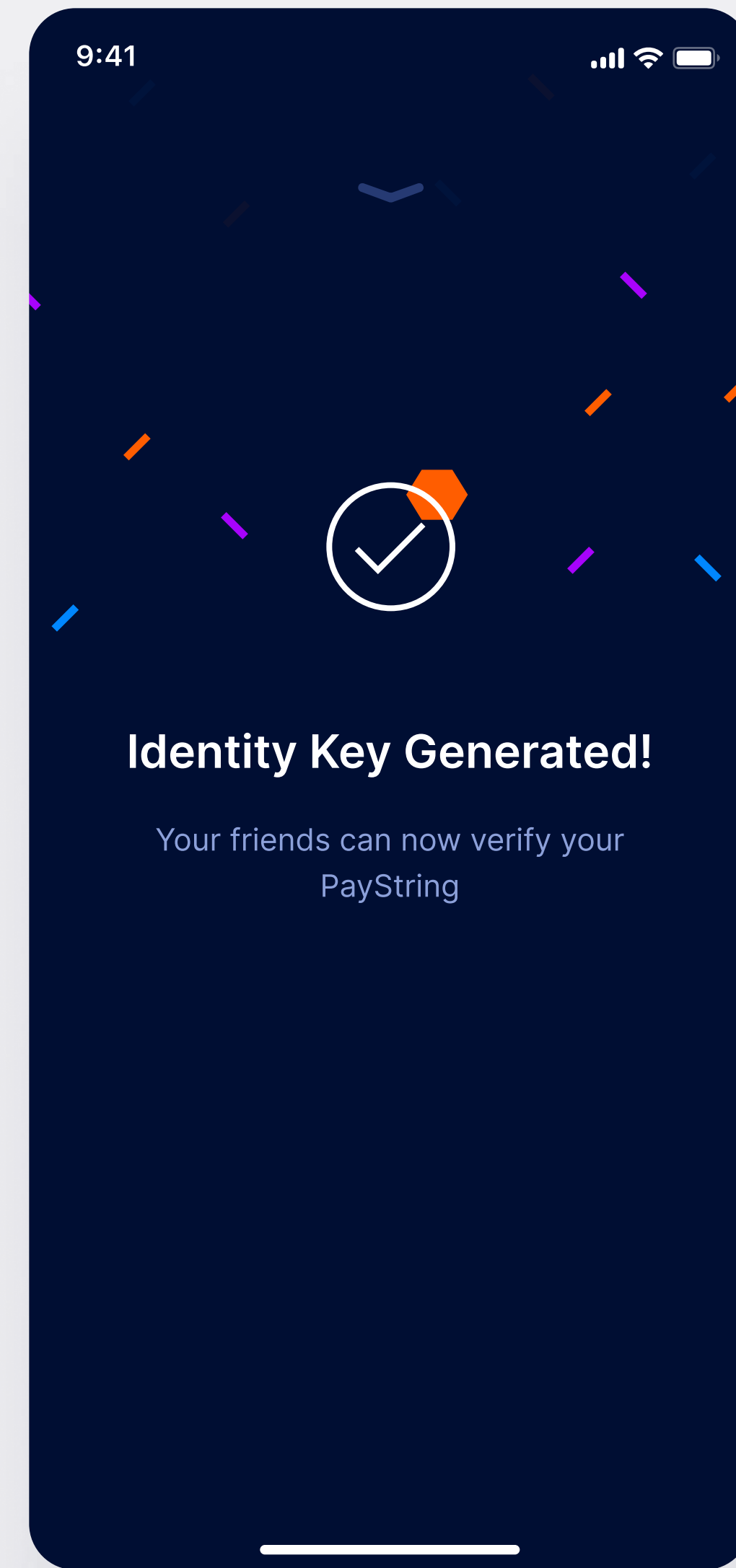
Generate a key to allow your friends to verify your PayString.

## 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.



## Verifiable PayString

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

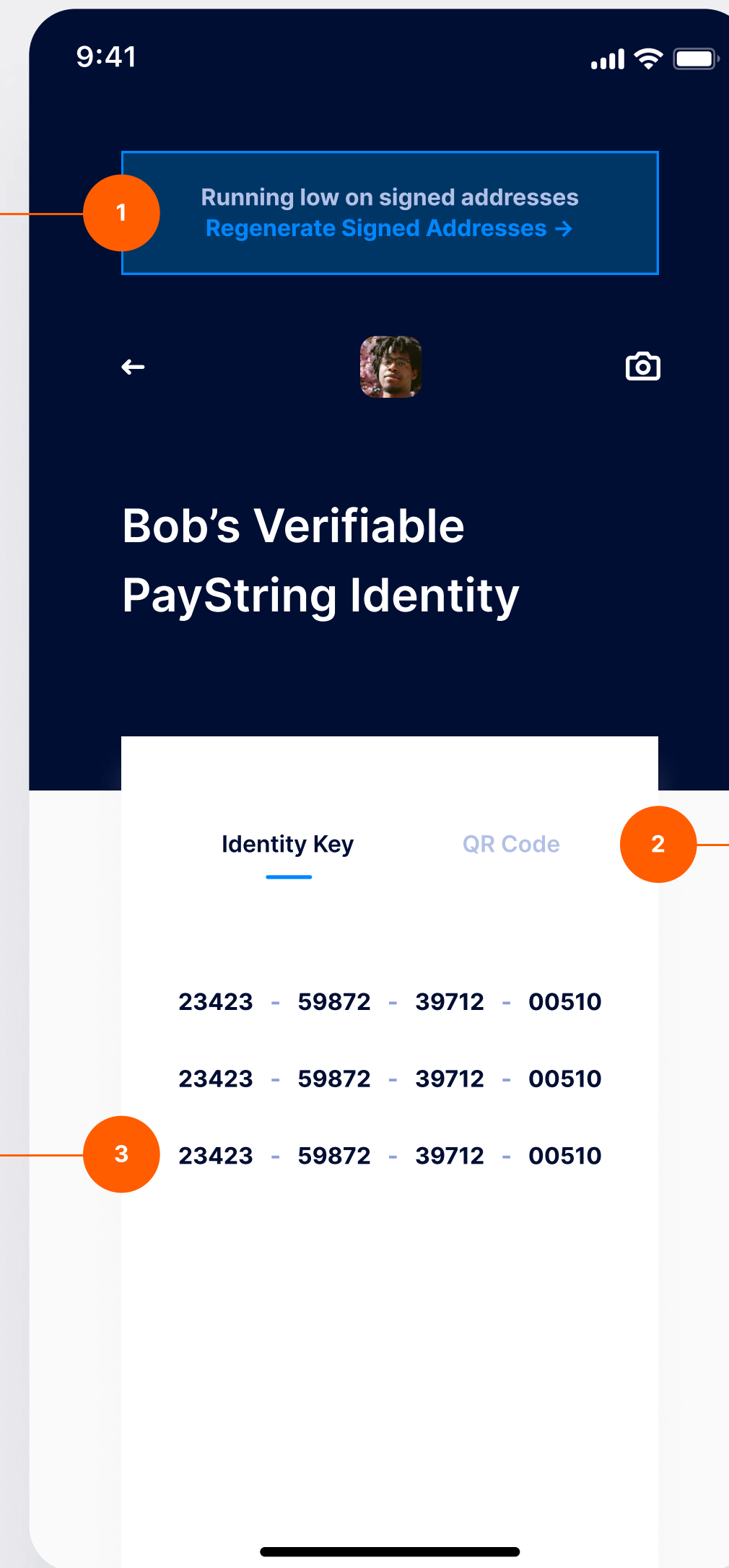
First, you can share your Identity Key and let your friend compare it on their device.

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.

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

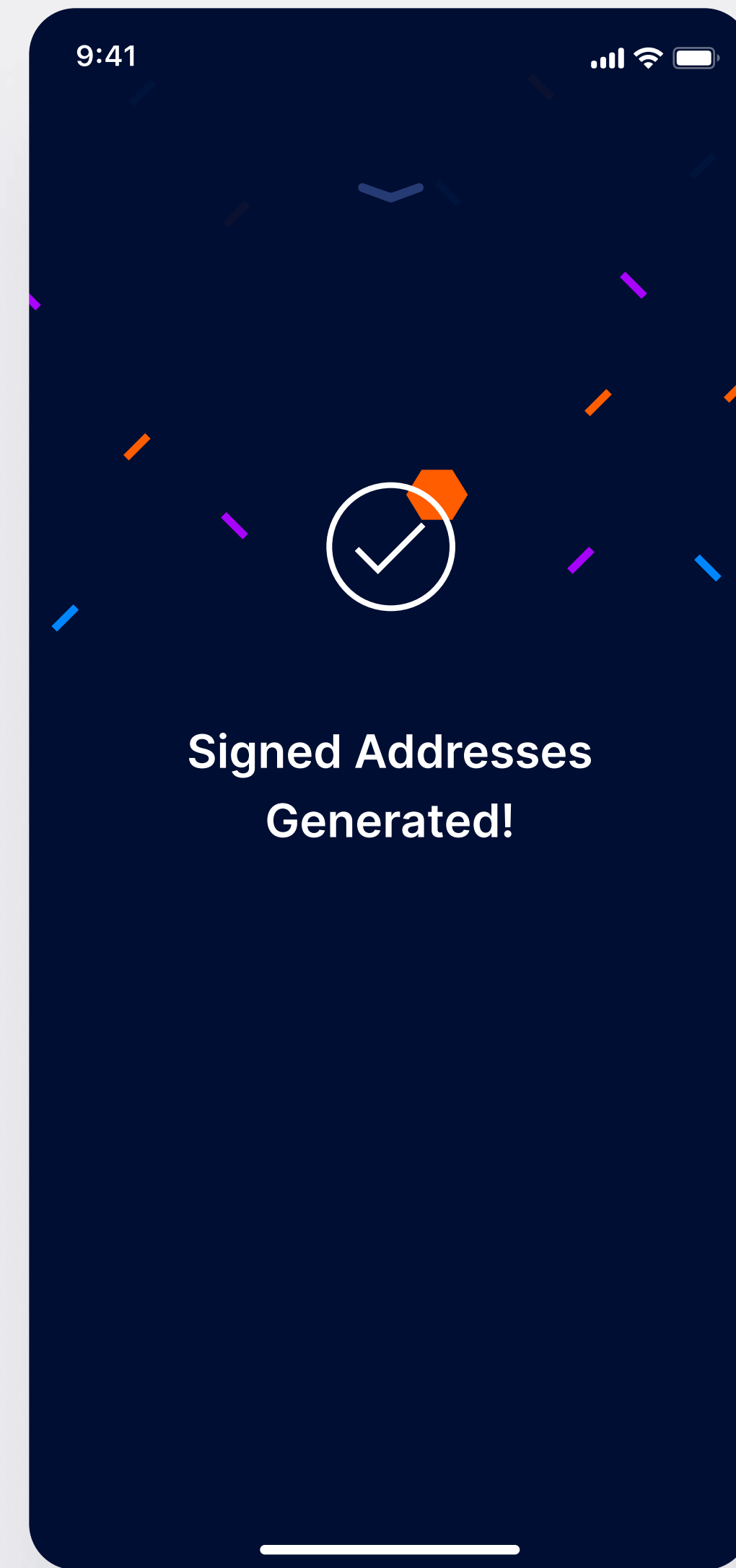
Your QR Code allows your friend to verify before transacting.



## Verifiable PayString

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

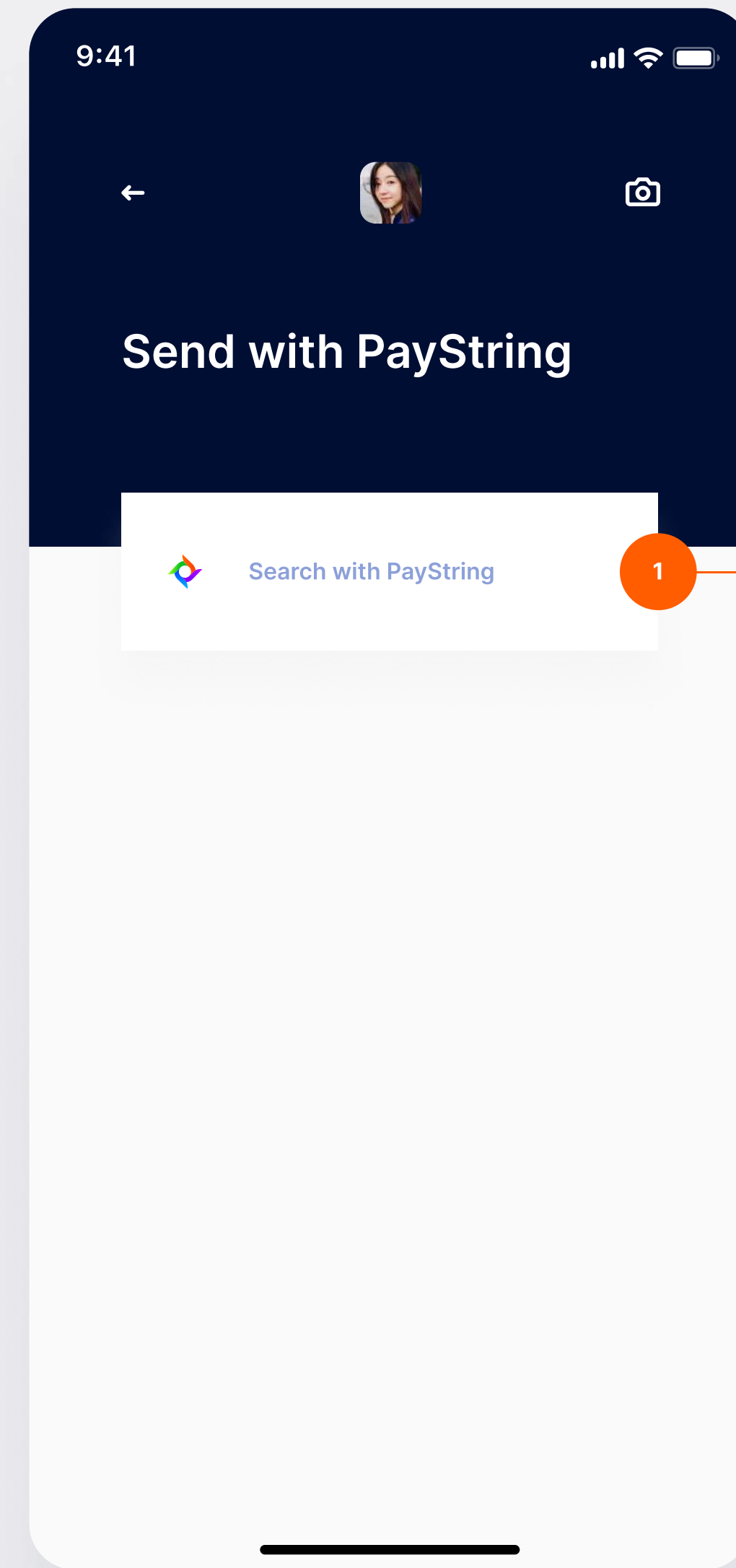




## Verifiable PayString

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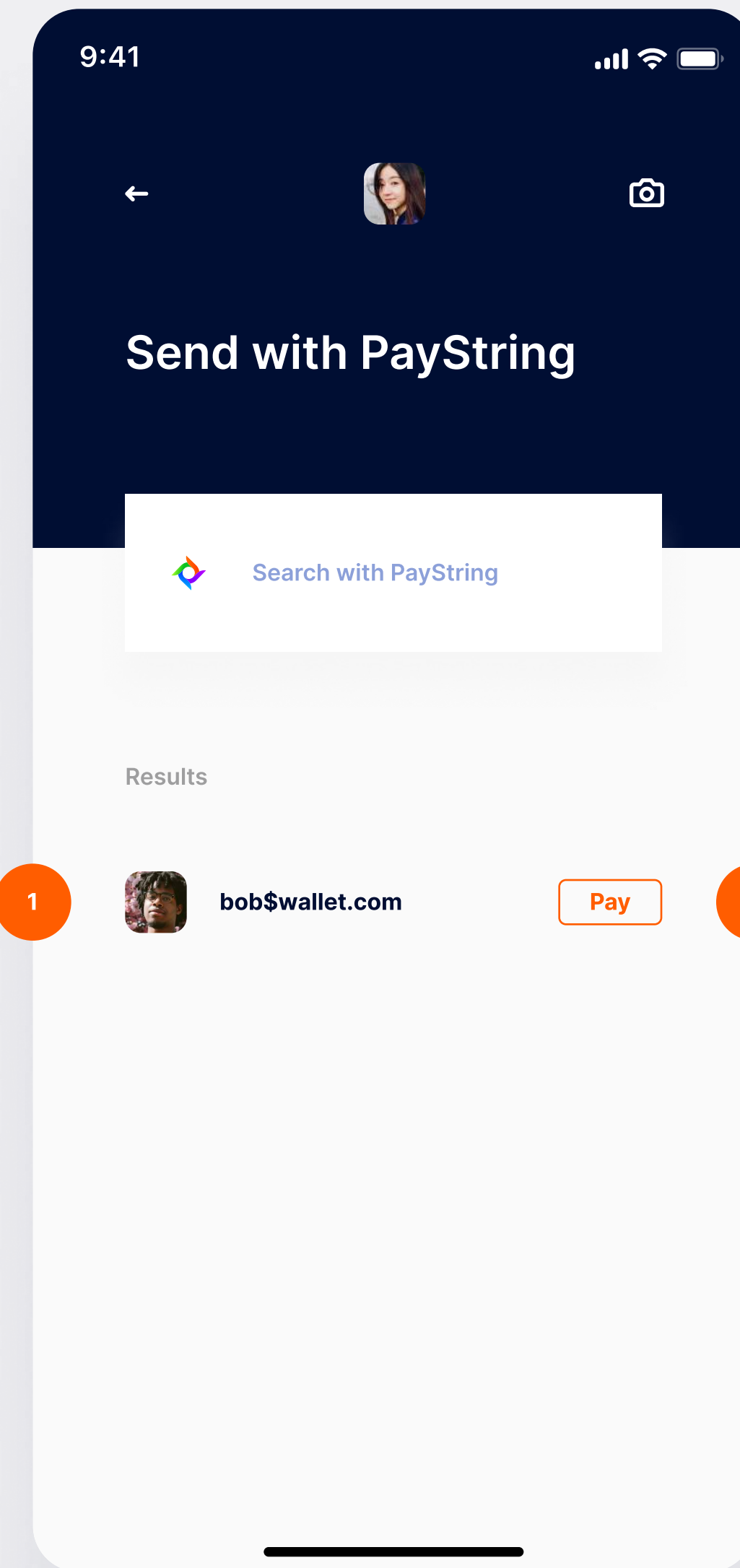
Searching with PayString should be straightforward. Enter their wallet name in the address field on your app to get results.



Search box allows you to find PayStrings

## Verifiable PayString

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



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

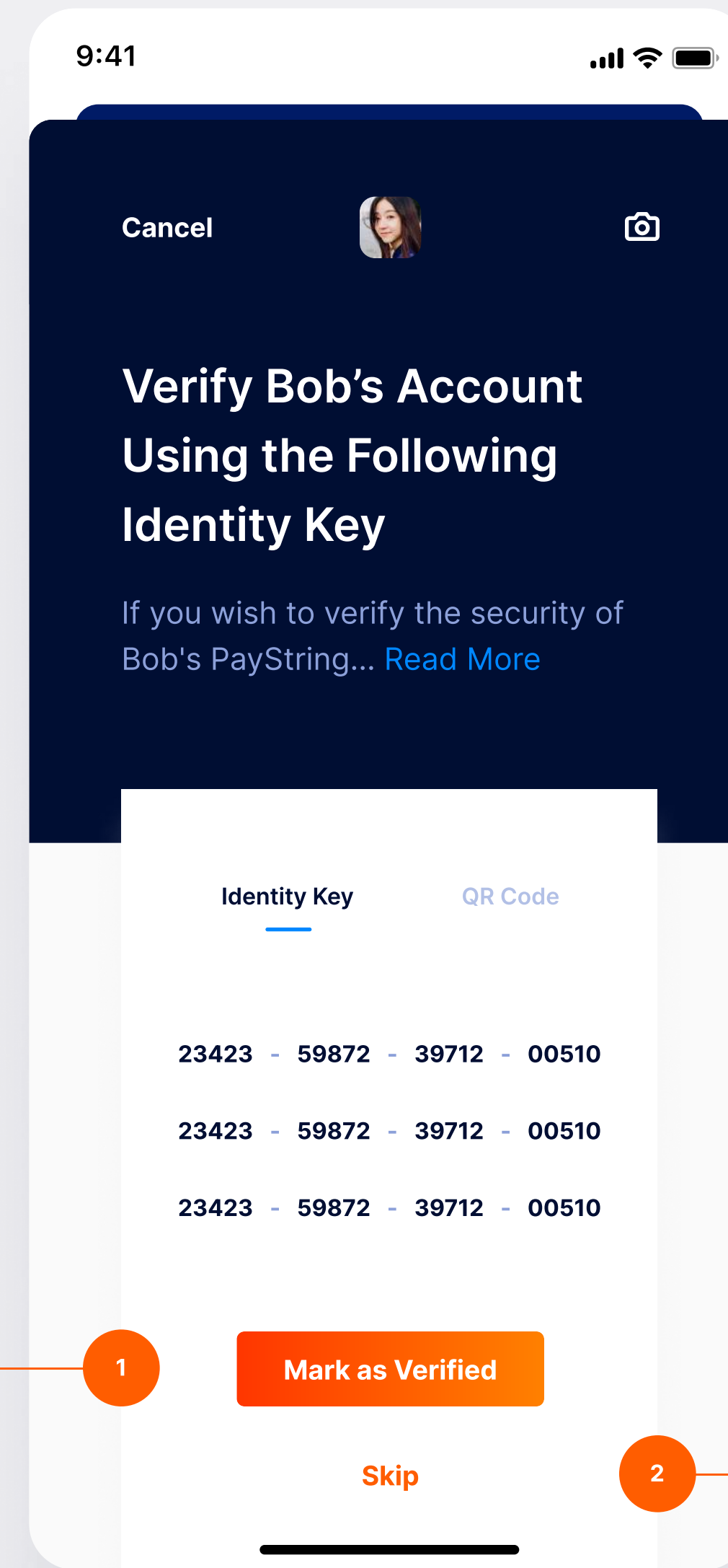
## Verifiable PayString

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.

Tap the button if you want to verify

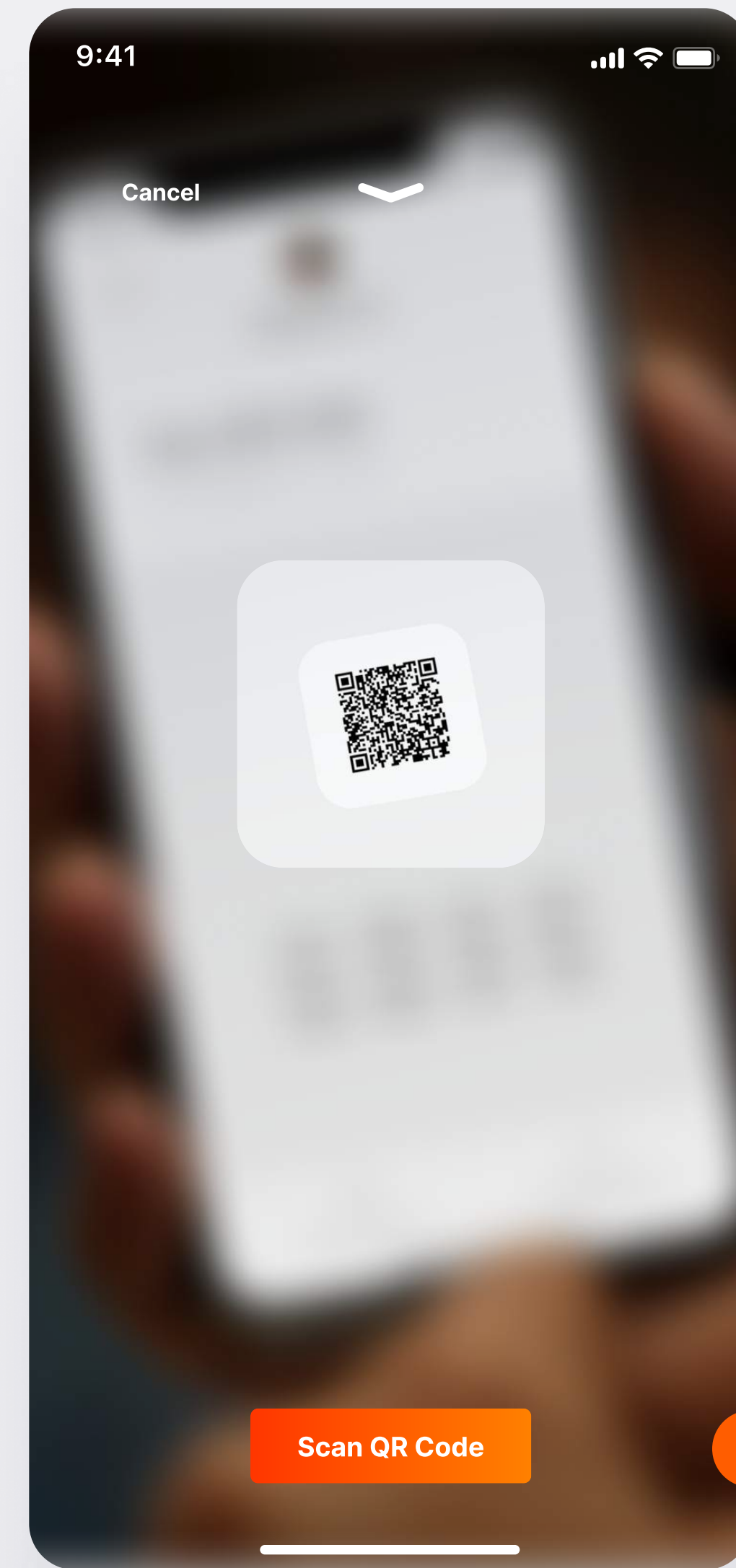
Click the “Skip” button if you want to go to the payment process without verifying.



## 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.](#)



Hit the “Scan QR Code” button when you are ready.

## Verifiable PayString

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

