

# **Accessibility Custom Actions**

### Dan Golden, Accessibility Engineer

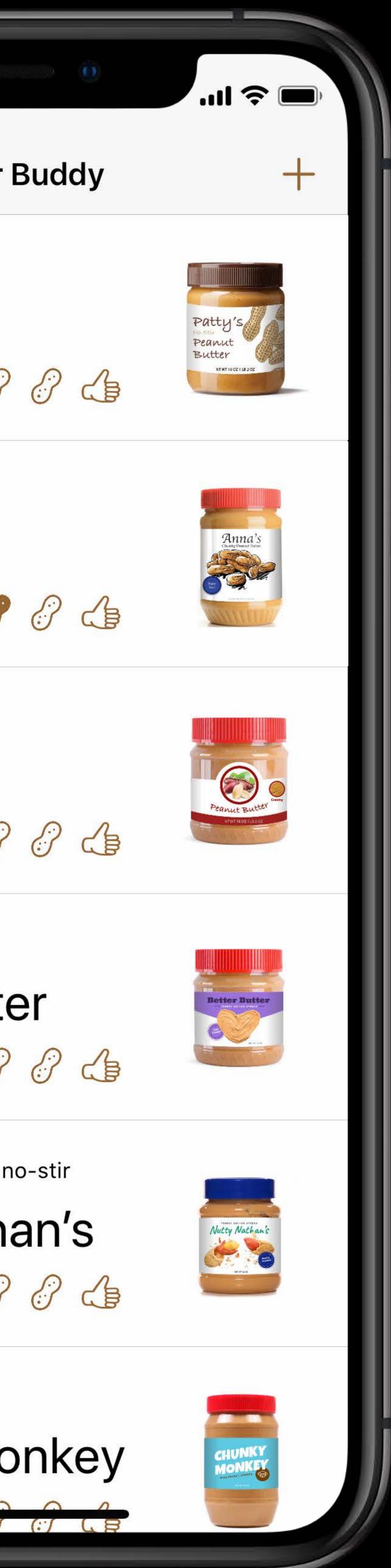
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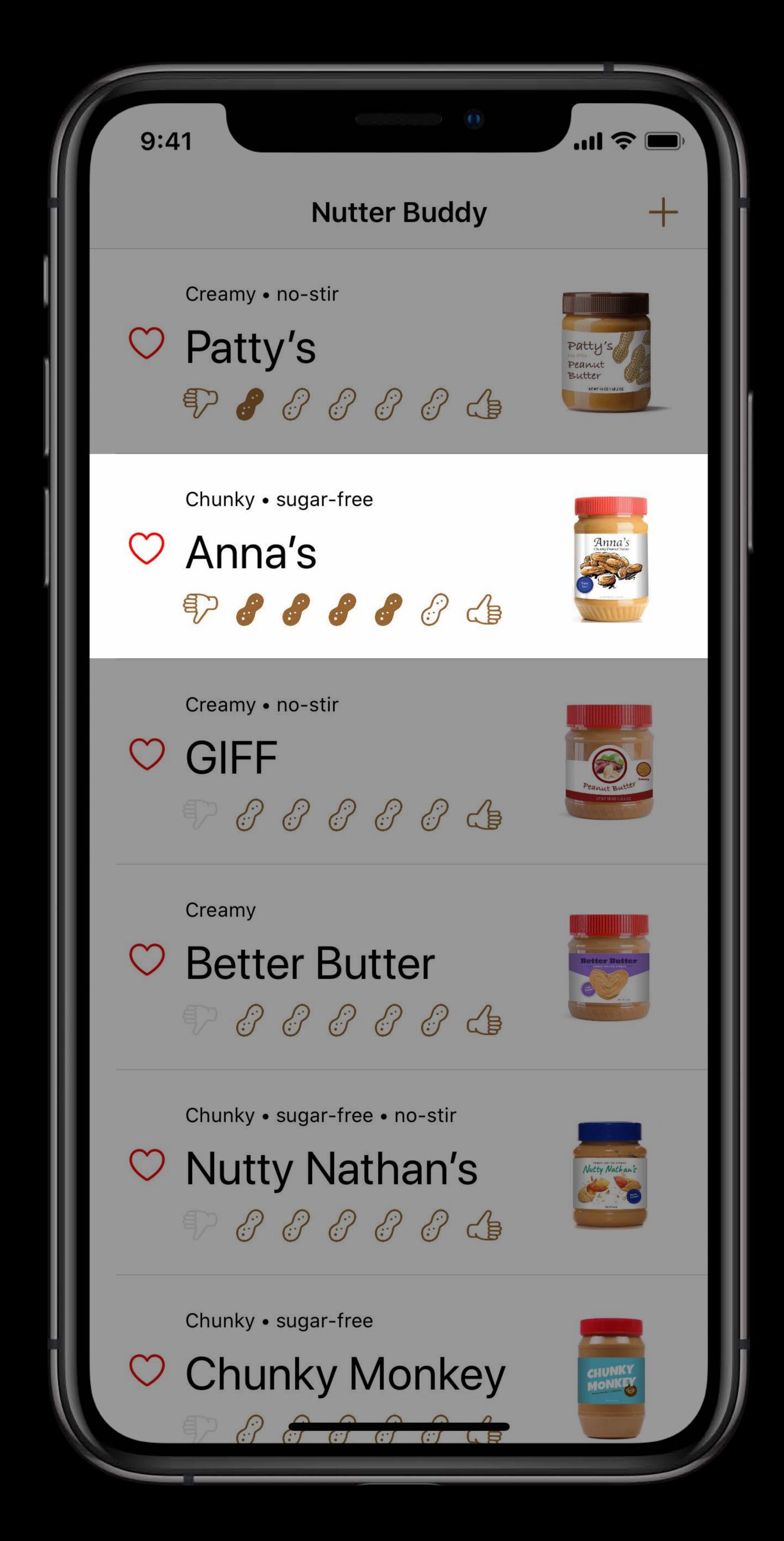
## Reducing Clutter Convenience and Speed

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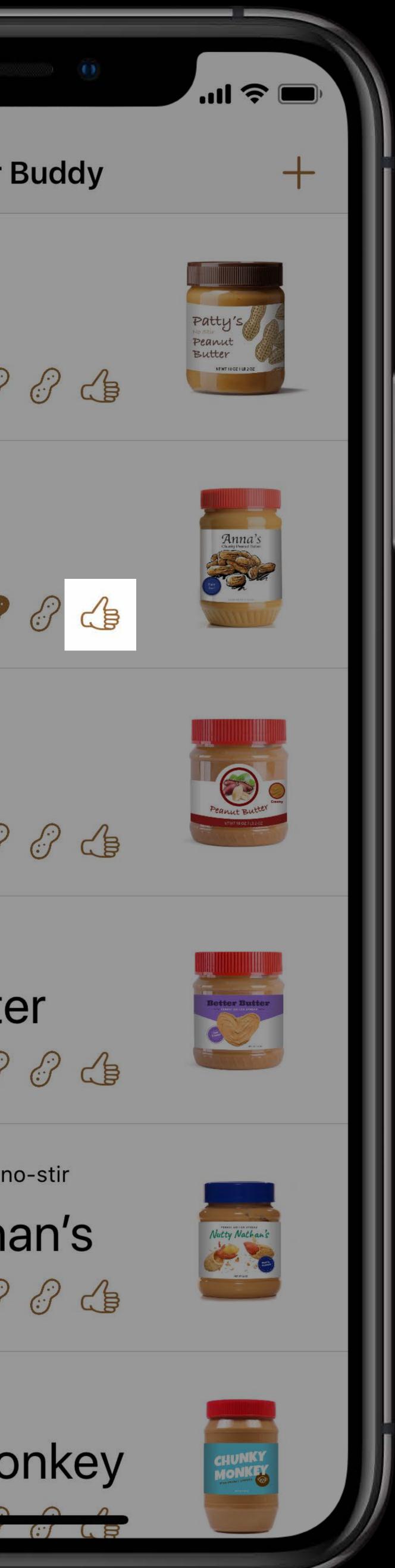


9:41 Nutter Buddy Creamy • no-stir ♥ Patty's Chunky • sugar-free ♥ Anna's Creamy • no-stir ♡ GIFF Creamy  $\heartsuit$ **Better Butter** Chunky • sugar-free • no-stir Vutty Nathan's P 8 8 8 8 4 Chunky • sugar-free Chunky Monkey 

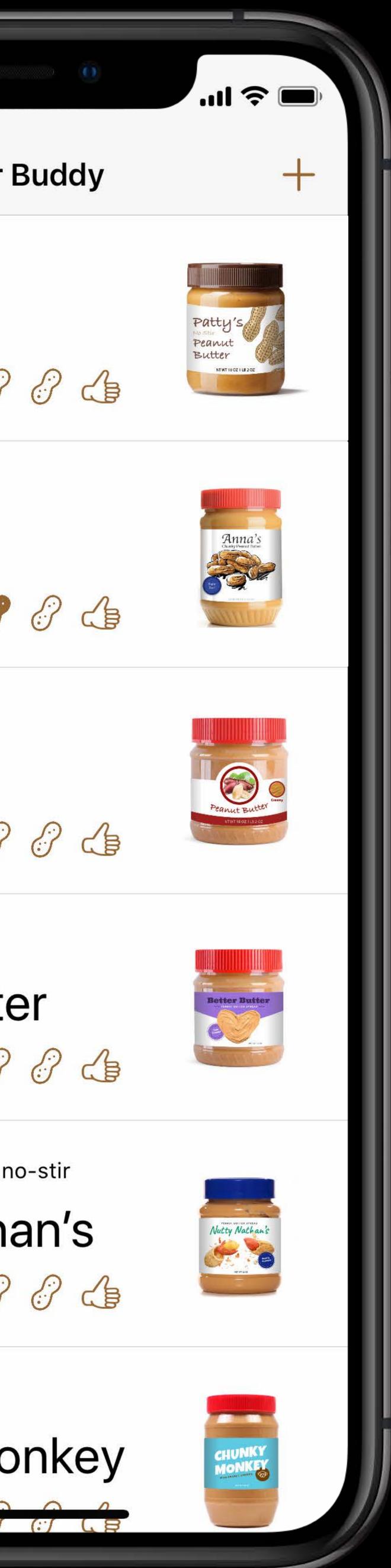


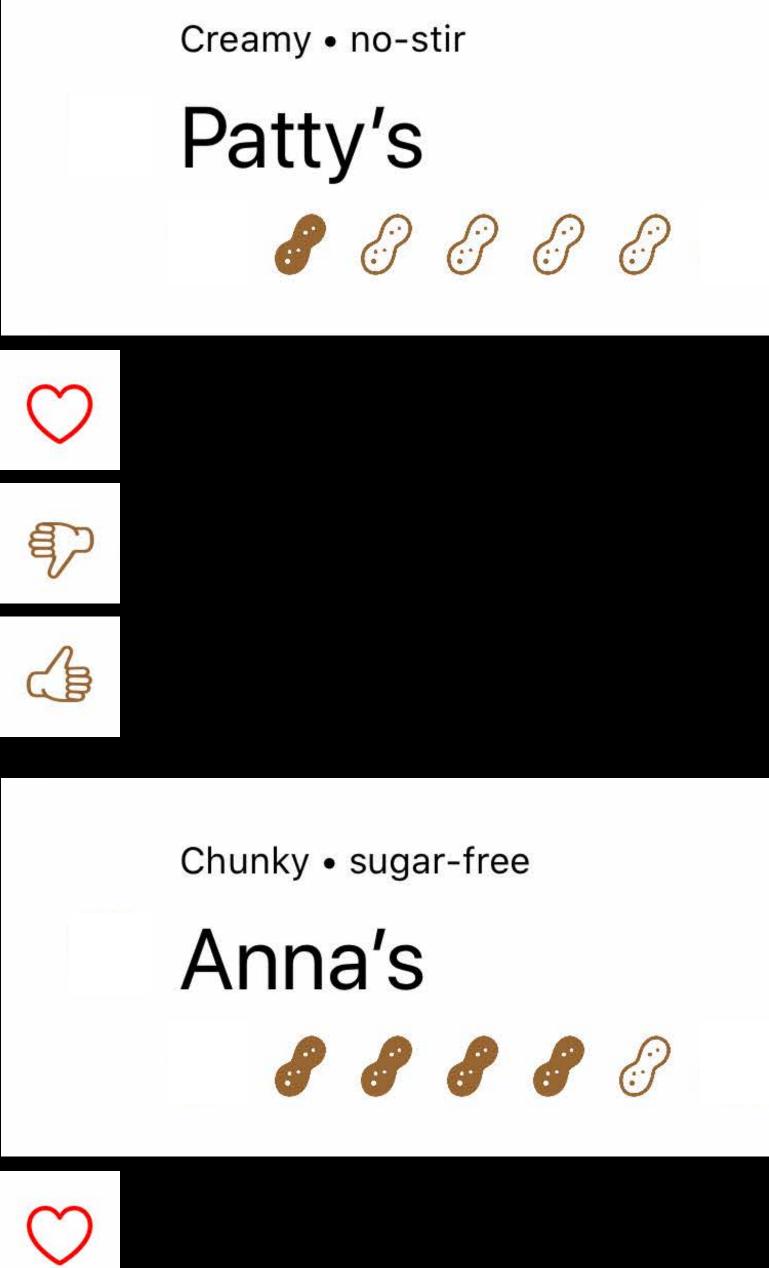


9:41 Nutter B
Creamy • no-stir          O       Patty's         Image: Complexity of the second sec
Chunky • sugar-free
Creamy • no-stir COGIFF
Creamy Better Butte
Chunky • sugar-free • no <b>Nutty Natha</b>
Chunky • sugar-free



9:41 Nutter Buddy Creamy • no-stir Patty's Chunky • sugar-free ♥ Anna's Creamy • no-stir ♡ GIFF Creamy  $\heartsuit$ **Better Butter** Chunky • sugar-free • no-stir Vutty Nathan's P 8 8 8 8 4 Chunky • sugar-free Chunky Monkey 



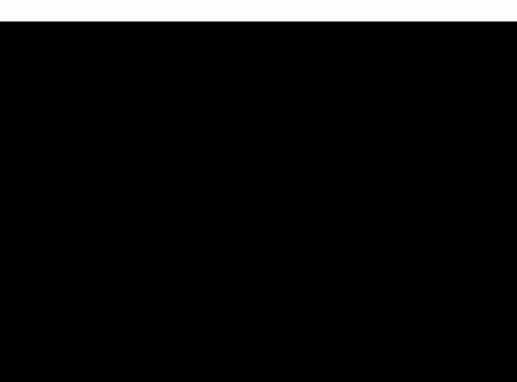


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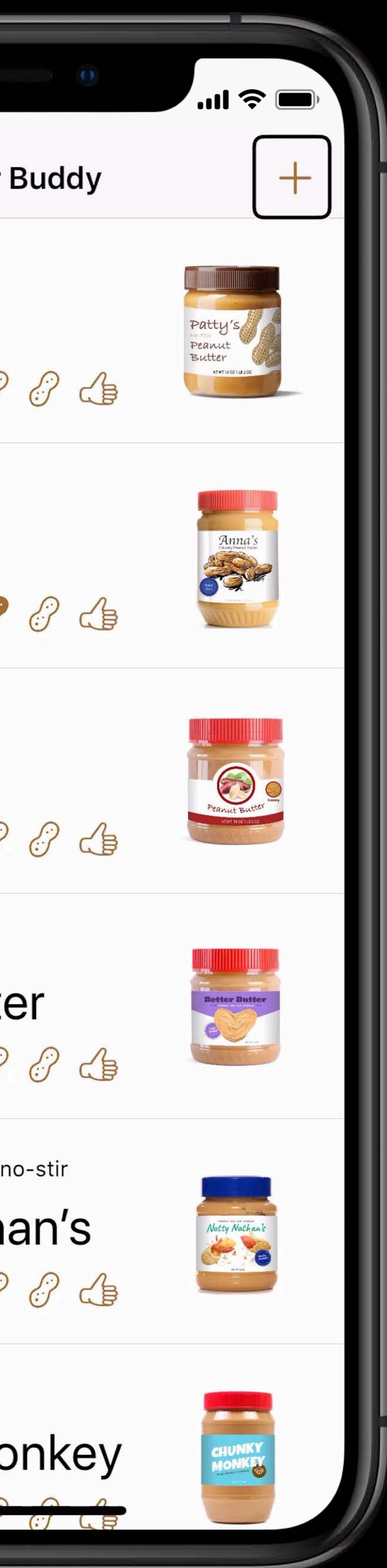
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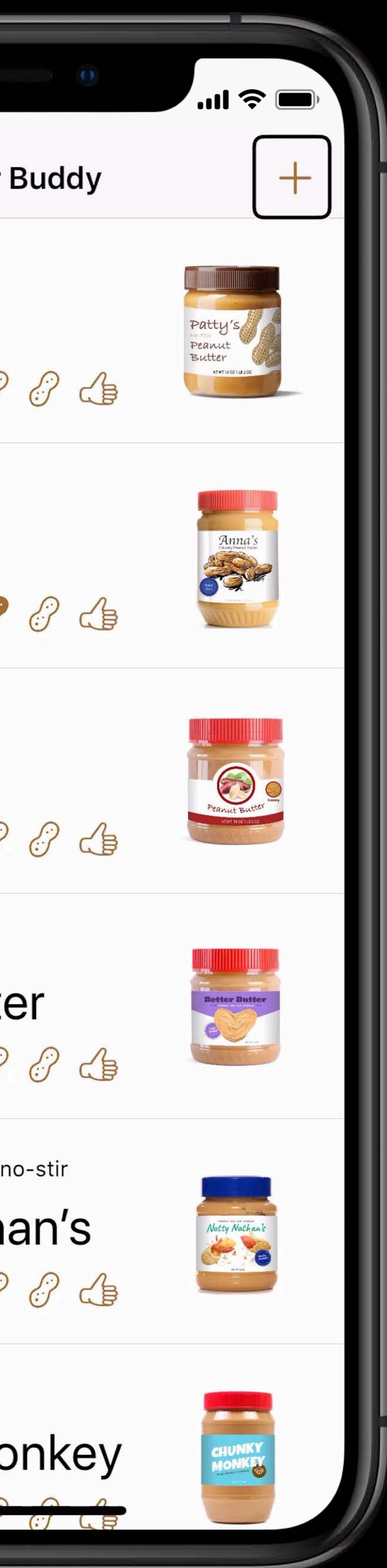




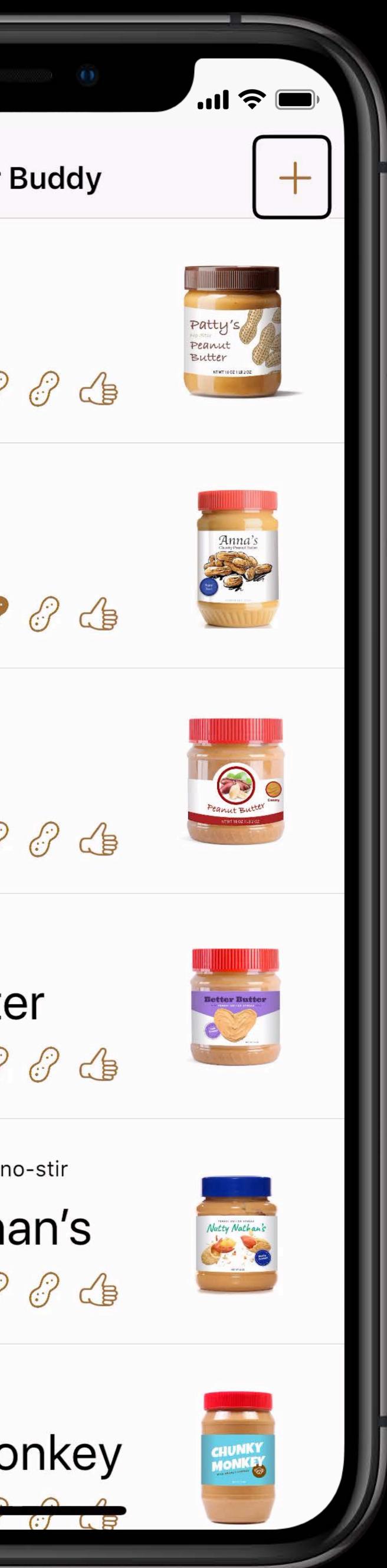
9:41 Nutter Buddy Creamy • no-stir ♥ Patty's Chunky • sugar-free ♥ Anna's Creamy • no-stir ♡ GIFF 8888 Creamy  $\bigcirc$ **Better Butter** P 3 3 3 3 3 4 Chunky • sugar-free • no-stir 8888 Chunky • sugar-free Chunky Monkey



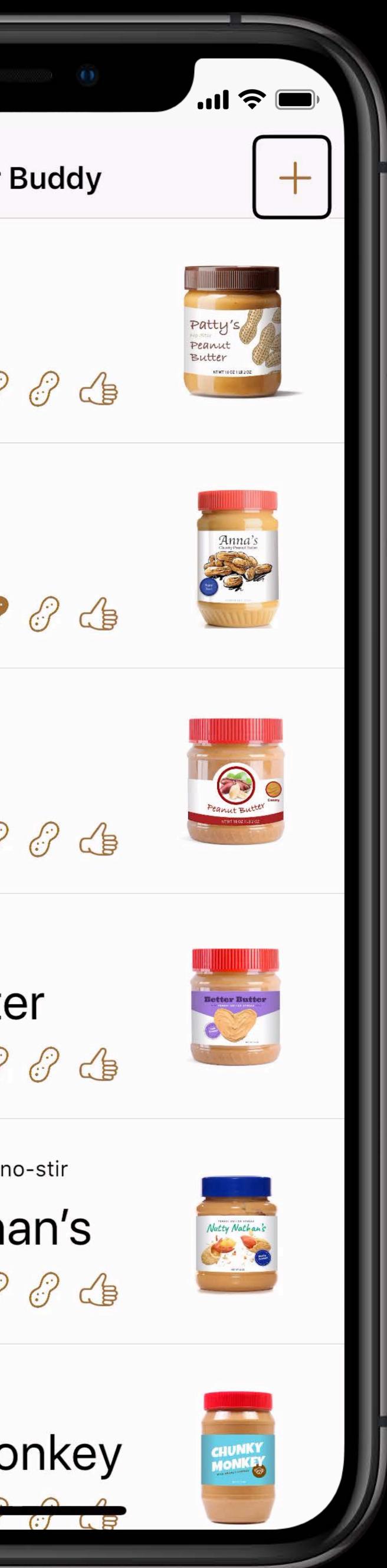
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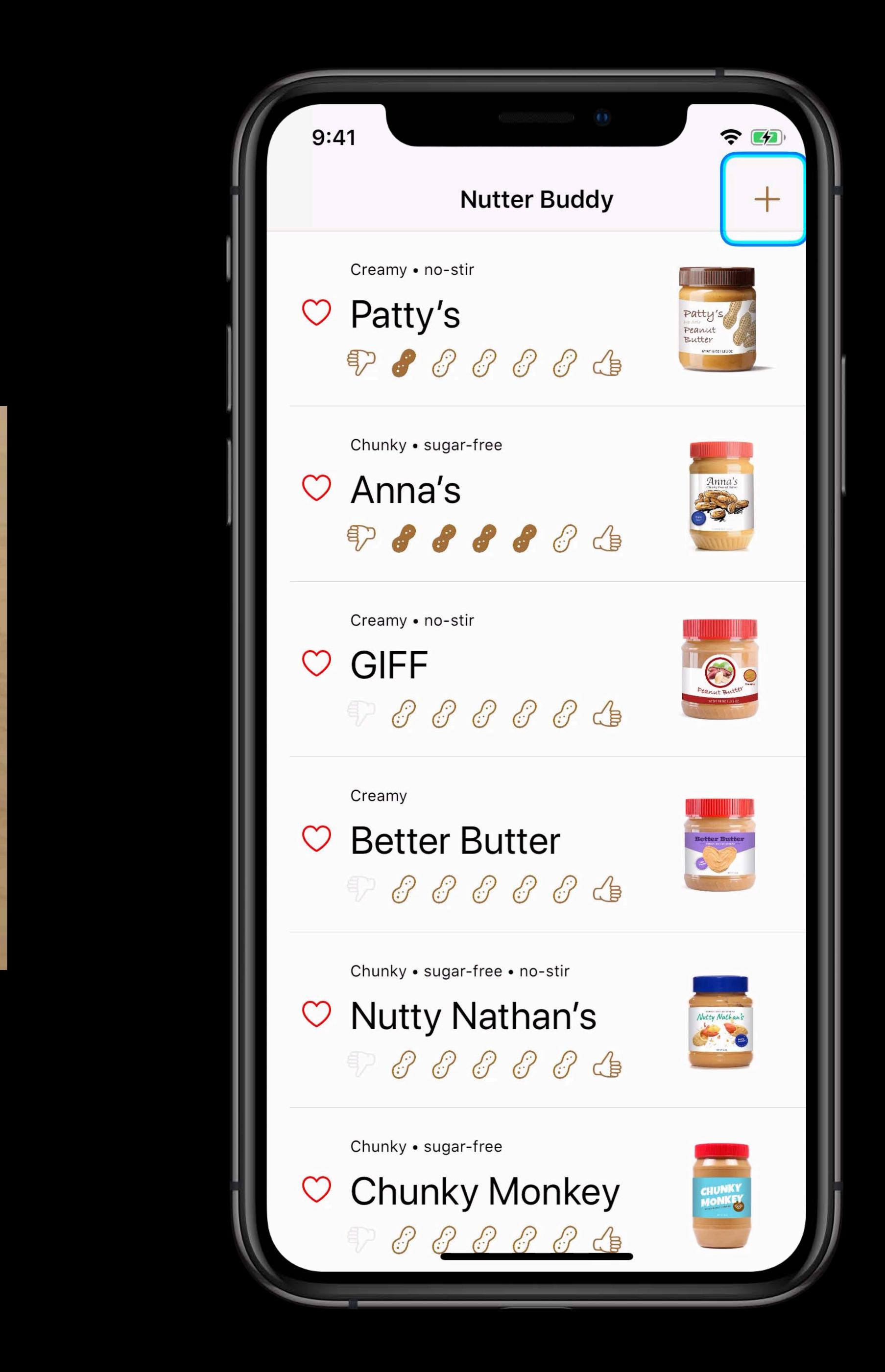
## Reducing Clutter

Removed repetitive controls Reduced cognitive load Simplified the experience

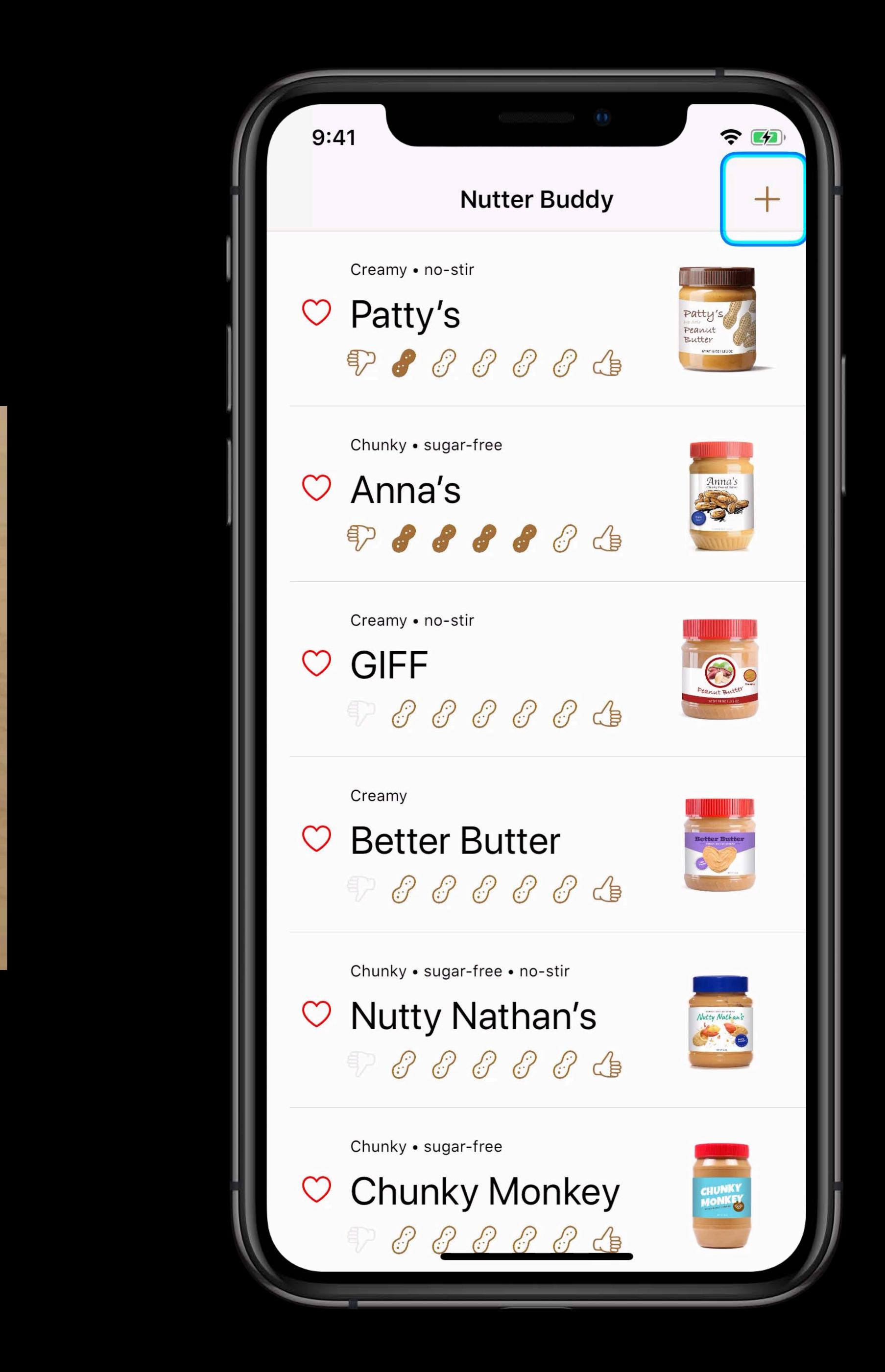
## Reducing Clutter Convenience and Speed



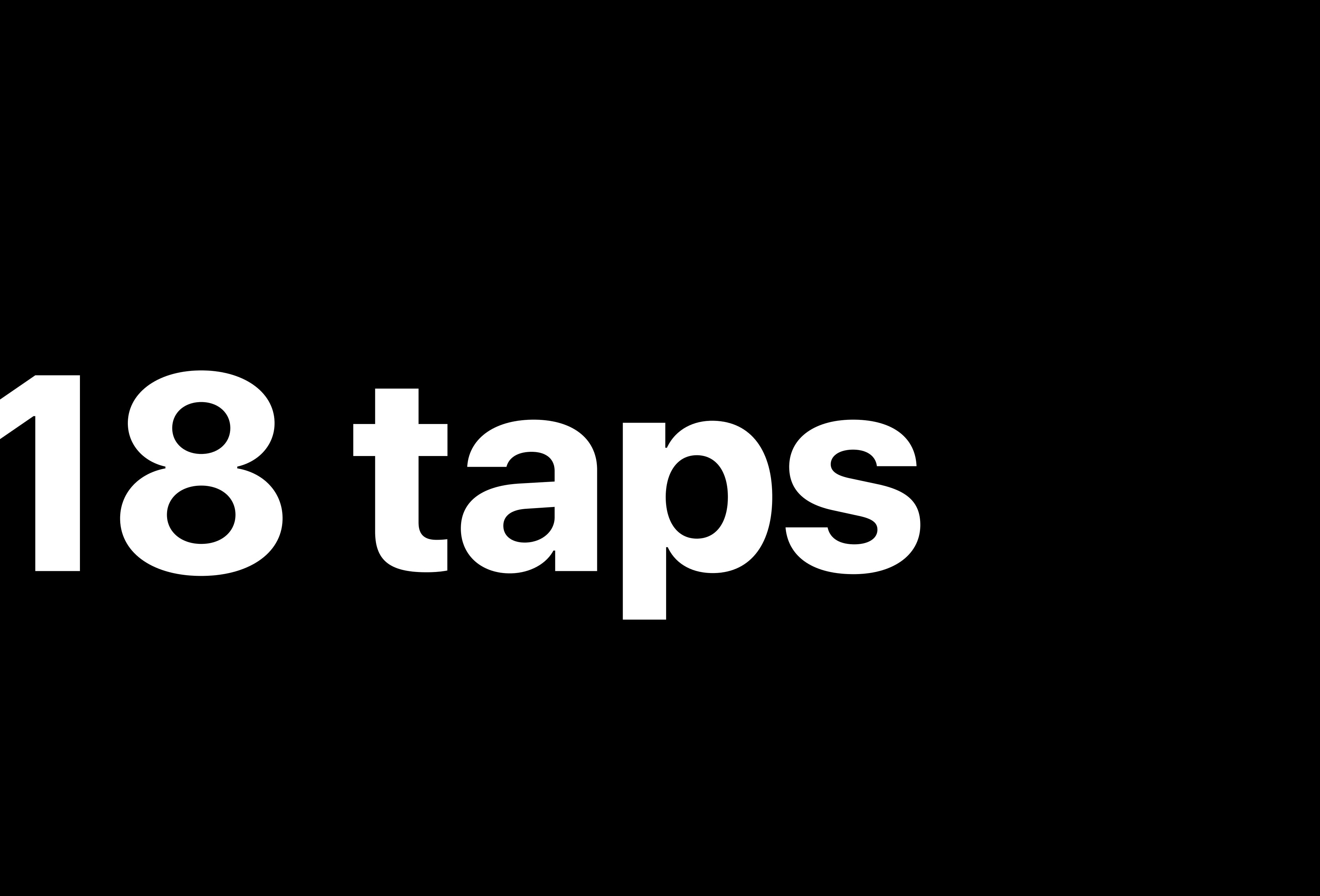




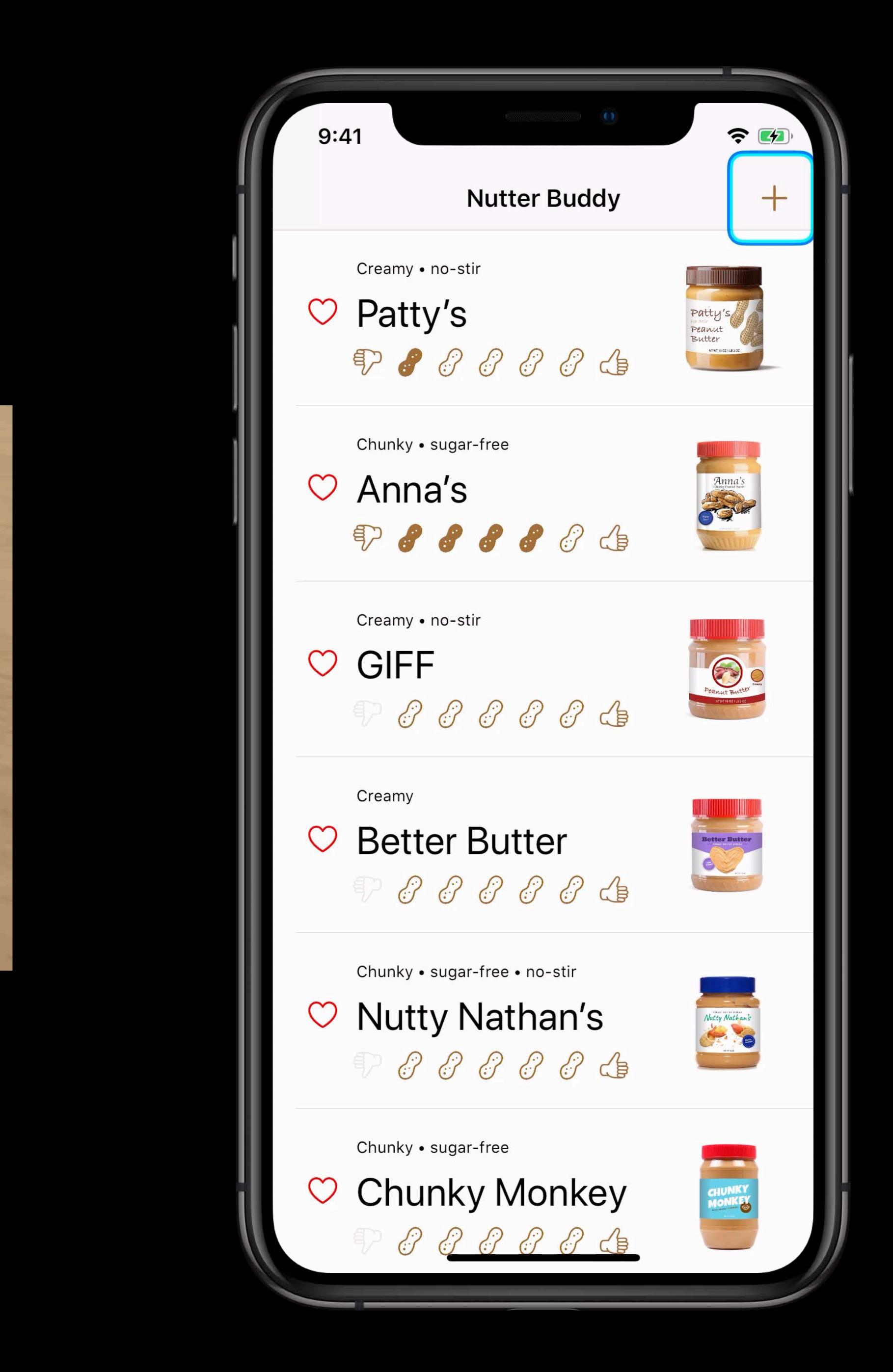




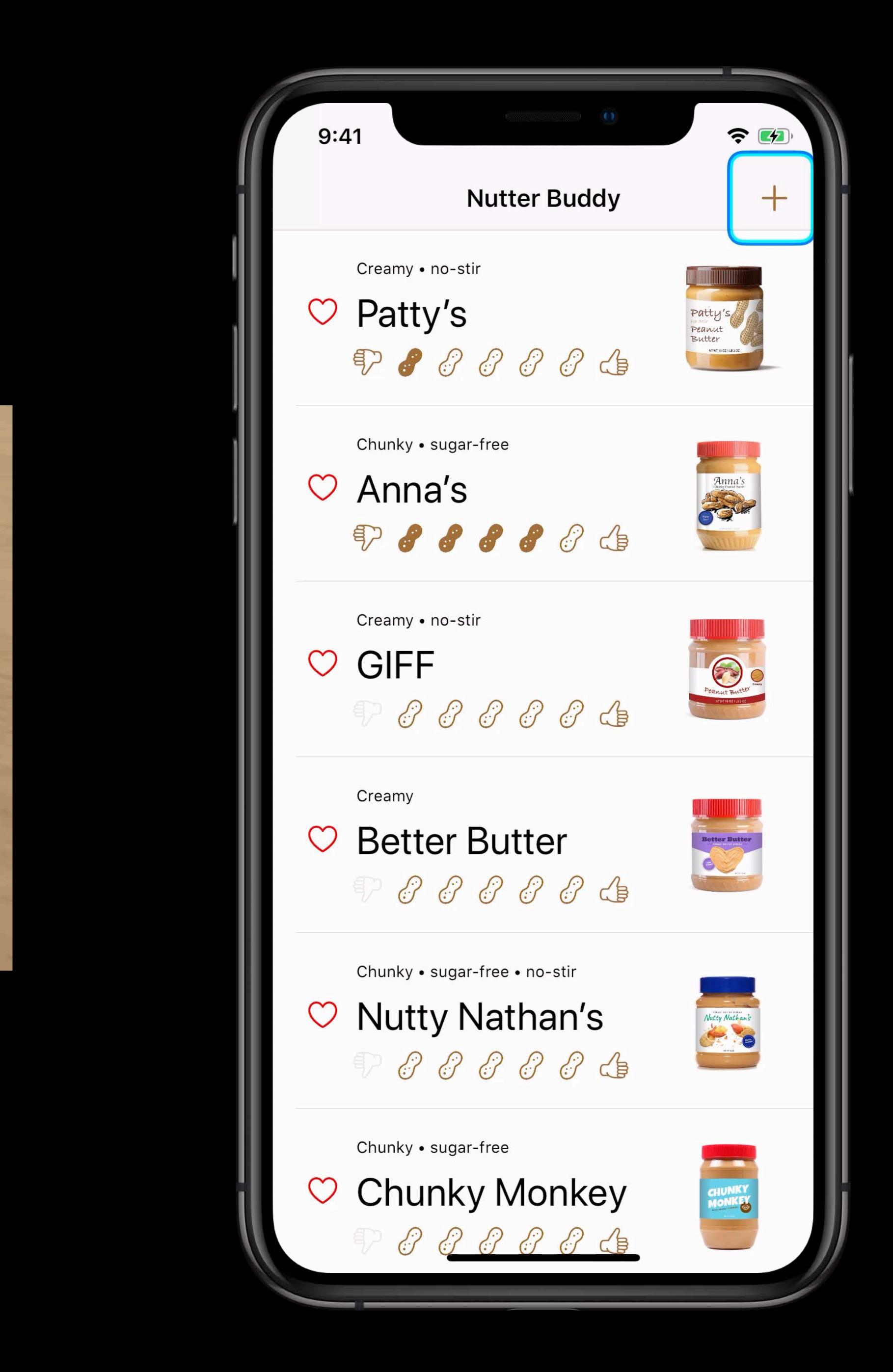
















## 67% fewer taps

## **Convenience and Speed**

Removed cumbersome gestures Sped up interaction

- Improved prominence of interaction options

get { let myAction = UIAccessibilityCustomAction(name: "Custom Action", target: self, selector: #selector(handleAction(\_:)) return [myAction] set {}

@objc func handleAction(\_ action: UIAccessibilityCustomAction) -> Bool { var success = false // action logic return success

}

### override var accessibilityCustomActions: [UIAccessibilityCustomAction]? {

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@objc func handleAction(\_ action: UIAccessibilityCustomAction) -> Bool { var success = false action logic return success

## override var accessibilityCustomActions: [UIAccessibilityCustomAction]? { get { let actions = [UIAccessibilityCustomAction]() let myAction = UIAccessibilityCustomAction(name: "Custom Action") { (customAction: UIAccessibilityCustomAction) -> Bool in var success = false // action logic return success actions.append(myAction) return actions set {}



cellButton1.isAccessibilityElement = false
cellButton2.isAccessibilityElement = false
cellButton3.isAccessibilityElement = false

## Assistive Technology Support

## VoiceOver Switch Control Full Keyboard Access Voice Control

### Accessibility Engineering Lab

### Accessibility Design Lab

### Accessibility in SwiftUI

## **Nore Information** developer.apple.com/wwdc19/250



### Friday, 10:00

### Daily, 9:00

### Tuesday, 10:00 Friday, 11:00



