Consultants
Network

บริษัท ศิลา นักปราชญ์ จำกัด
We believe that technology has the power to transform the classroom.

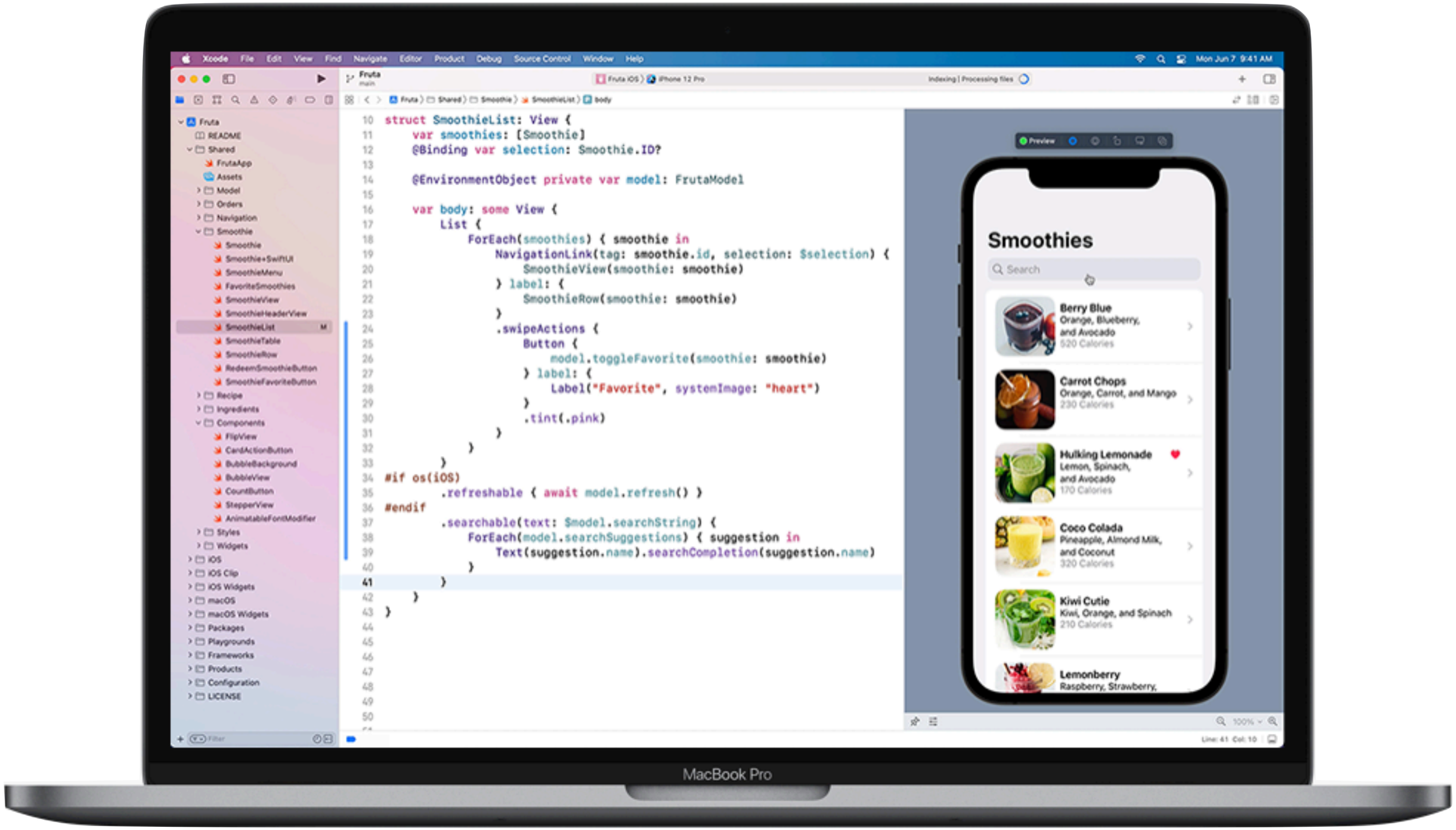
Meet Xcode

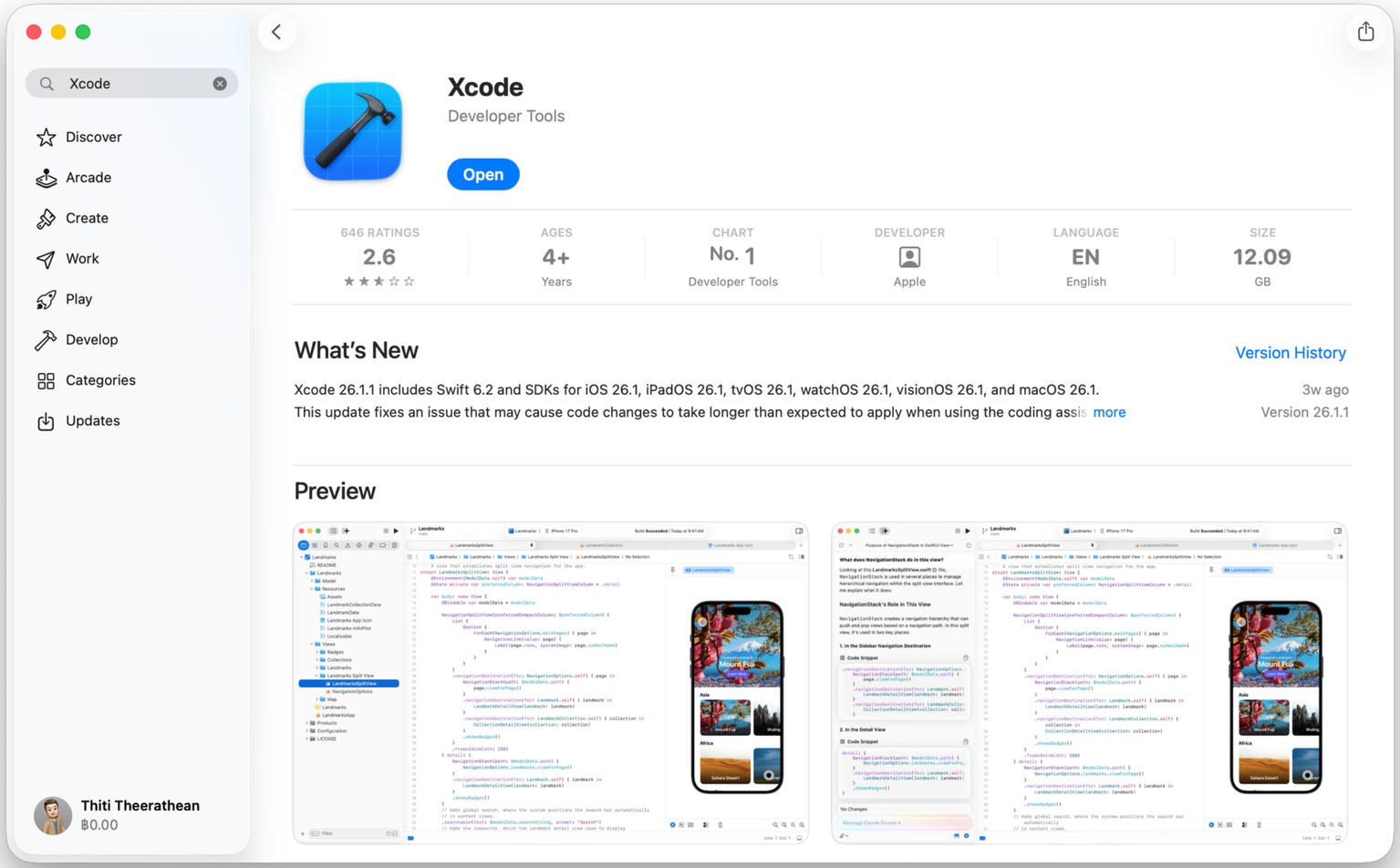
โดย ธิติ ธีระเธียร

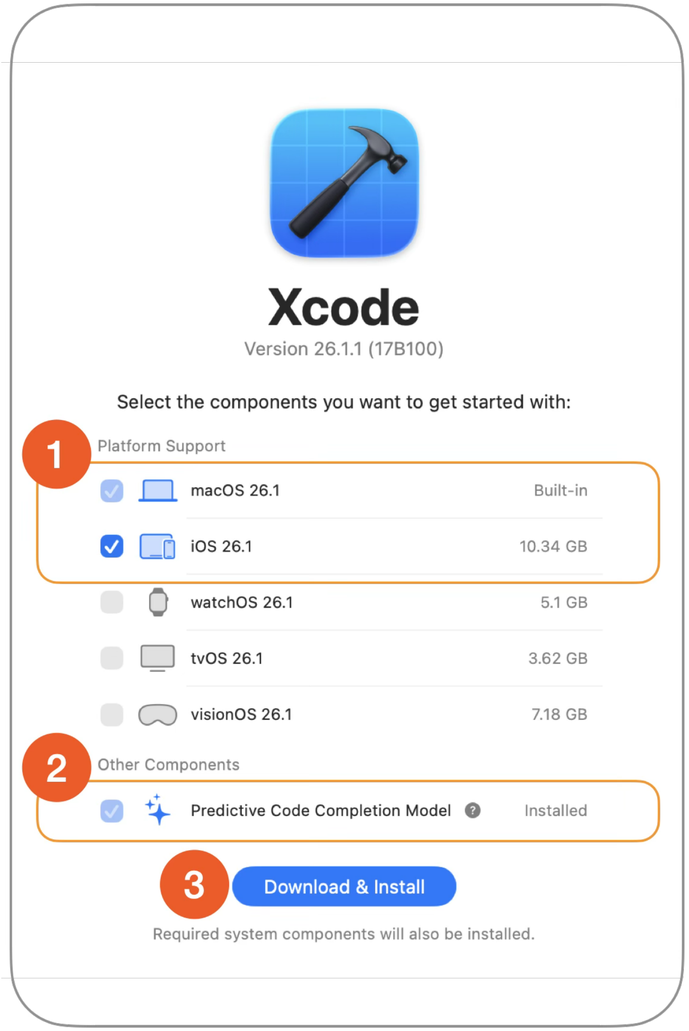
Apple Certified Trainer (App Development with Swift)

Issue: Dec 2025

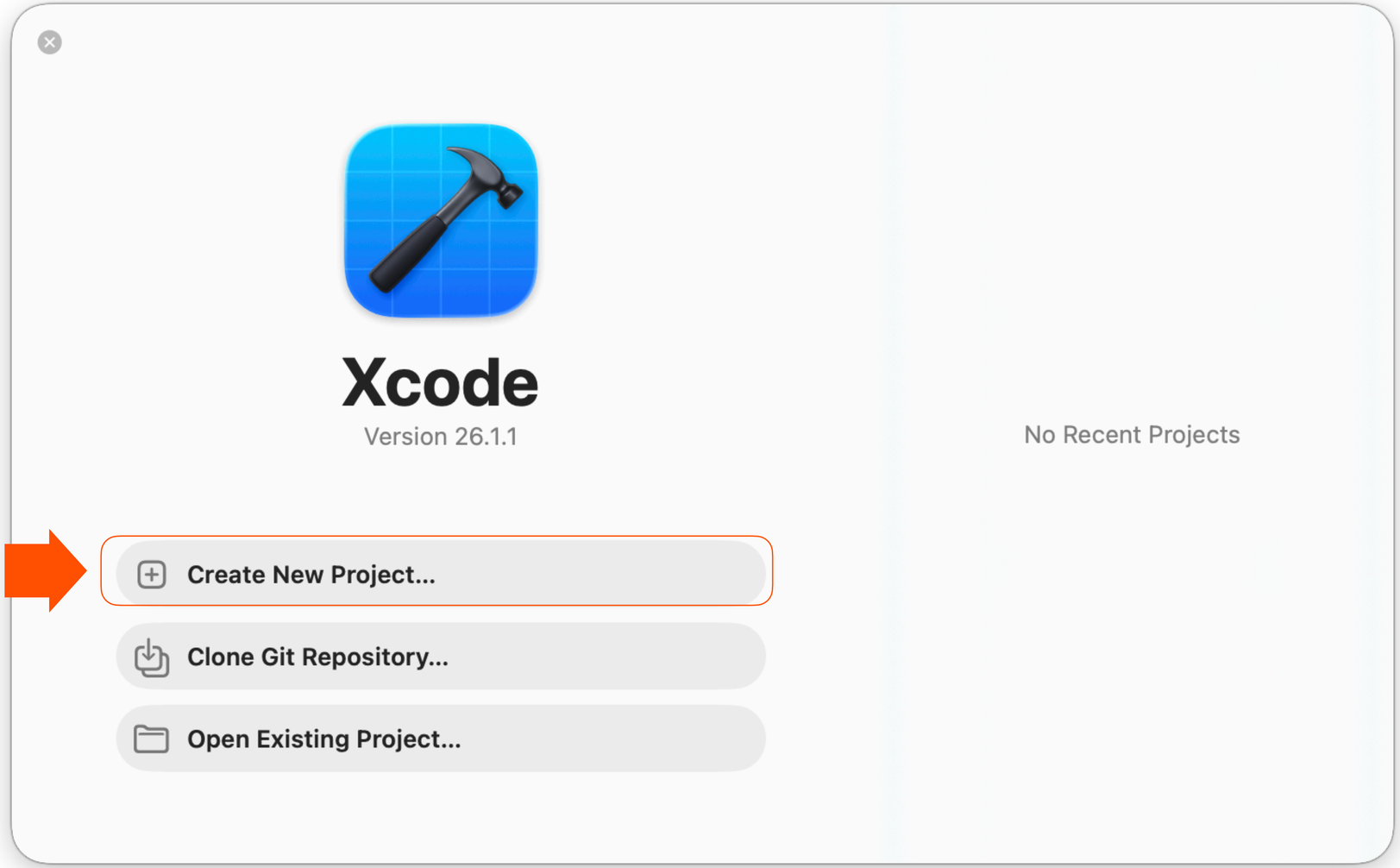

9:41
Clock
Camera
375/500CAL
19/30MIN
4/12HRS
TV
Stocks
Activity
Mail
Files
Photos
App Store
Weather
Health
Home
Chromatica
Lady Gaga
News
Photos
Music

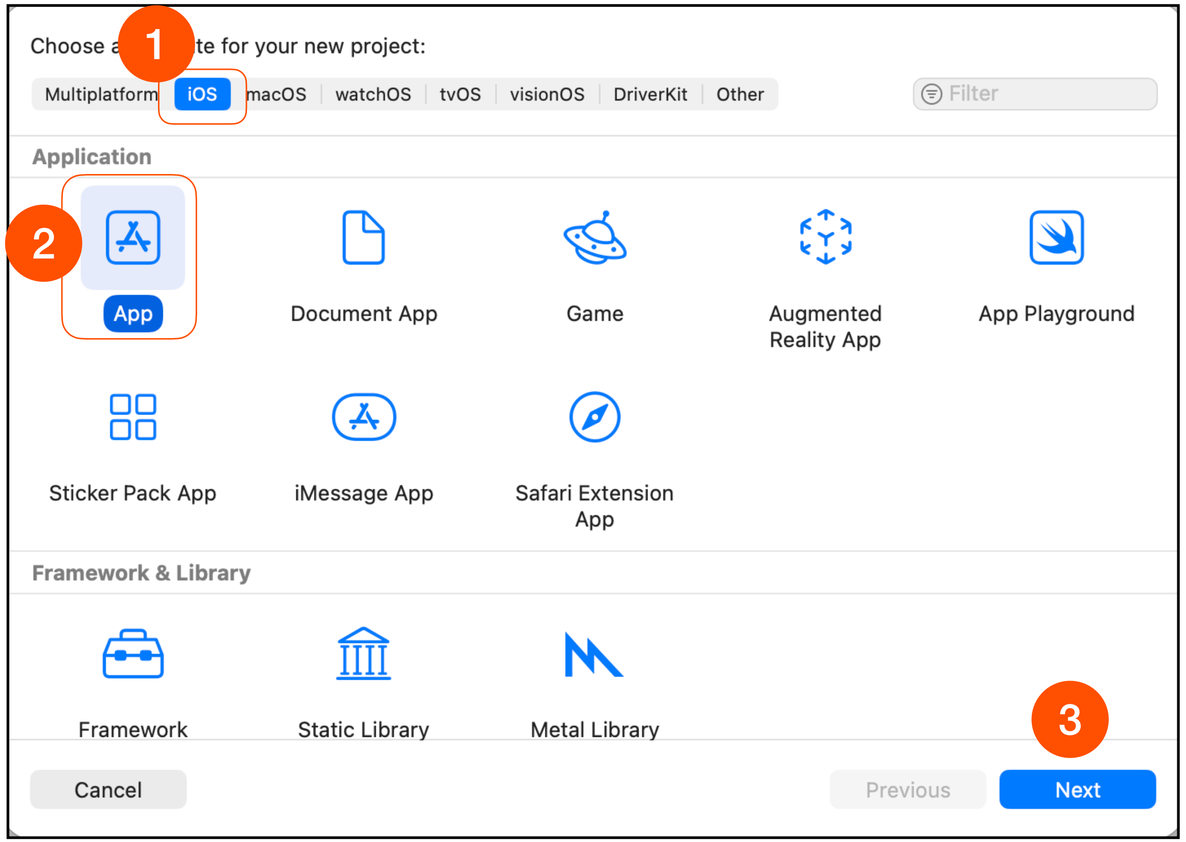

Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help
Mon Jun 7 9:41 AM
Fruta
Fruta iOS iPhone 12 Pro
Indexing | Processing files
Fruta Shared Smoothie SmoothieList body
Fruta
README
Shared
FrutaApp
Assets
Model
Orders
Navigation
Smoothie
Smoothie
Smoothie+SwiftUI
SmoothieMenu
FavoriteSmoothies
SmoothieView
SmoothieHeaderView
SmoothieList
SmoothieTable
SmoothieRow
RedeemSmoothieButton
SmoothieFavoriteButton
Recipe
Ingredients
Components
FlipView
CardActionButton
BubbleBackground
BubbleView
CountButton
StepperView
AnimatableFontModifier
Styles
Widgets
iOS
iOS Clip
iOS Widgets
macOS
macOS Widgets
Packages
Playgrounds
Frameworks
Products
Configuration
LICENSE
10 struct SmoothieList: View {
11 var smoothies: [Smoothie]
12 @Binding var selection: Smoothie.ID?
13
14 @EnvironmentObject private var model: FrutaModel
15
16 var body: some View {
17 List {
18 ForEach(smoothies) { smoothie in
19 NavigationLink(tag: smoothie.id, selection: $selection) {
20 SmoothieView(smoothie: smoothie)
21 } label: {
22 SmoothieRow(smoothie: smoothie)
23 }
24 .swipeActions {
25 Button {
26 model.toggleFavorite(smoothie: smoothie)
27 } label: {
28 Label("Favorite", systemImage: "heart")
29 }
30 .tint(.pink)
31 }
32 }
33 }
34 #if os(iOS)
35 .refreshable { await model.refresh() }
36 #endif
37 .searchable(text: $model.searchString) {
38 ForEach(model.searchSuggestions) { suggestion in
39 Text(suggestion.name).searchCompletion(suggestion.name)
40 }
41 }
42 }
43 }
Preview
Smoothies
Search
Berry Blue
Orange, Blueberry, and Avocado
320 Calories
Carrot Chops
Orange, Carrot, and Mango
230 Calories
Hulking Lemonade
Lemon, Spinach, and Avocado
170 Calories
Coco Colada
Pineapple, Almond Milk, and Coconut
320 Calories
Kiwi Cutie
Kiwi, Orange, and Spinach
210 Calories
Lemonberry
Raspberry, Strawberry,
100%
Line: 41 Col: 10
MacBook Pro

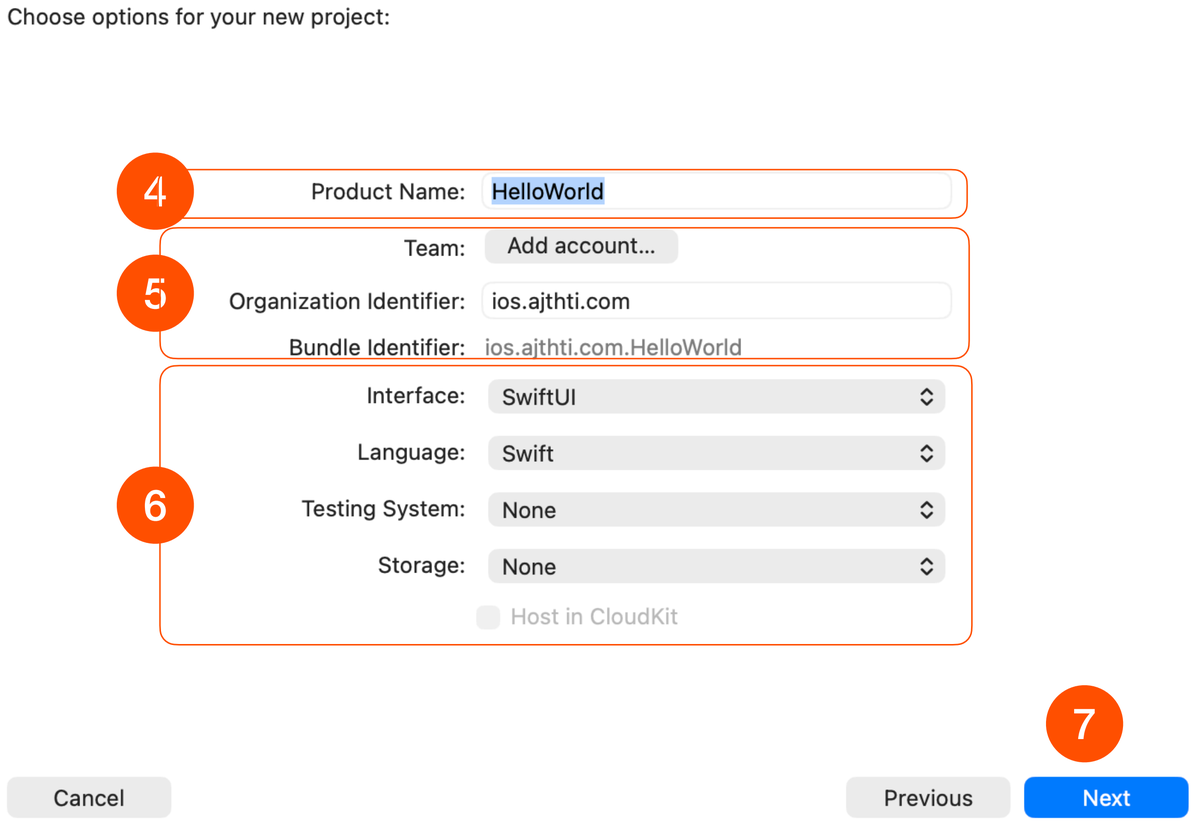

Xcode
Discover
Arcade
Create
Work
Play
Develop
Categories
Updates
Thiti Theerathean
฿0.00
Xcode
Developer Tools
Open
646 RATINGS
2.6
AGES
4+
Years
CHART
No. 1
Developer Tools
DEVELOPER
Apple
LANGUAGE
EN
English
SIZE
12.09
GB
What's New
Version History
Xcode 26.1.1 includes Swift 6.2 and SDKs for iOS 26.1, iPadOS 26.1, tvOS 26.1, watchOS 26.1, visionOS 26.1, and macOS 26.1.
This update fixes an issue that may cause code changes to take longer than expected to apply when using the coding assis more
3w ago
Version 26.1.1
Preview

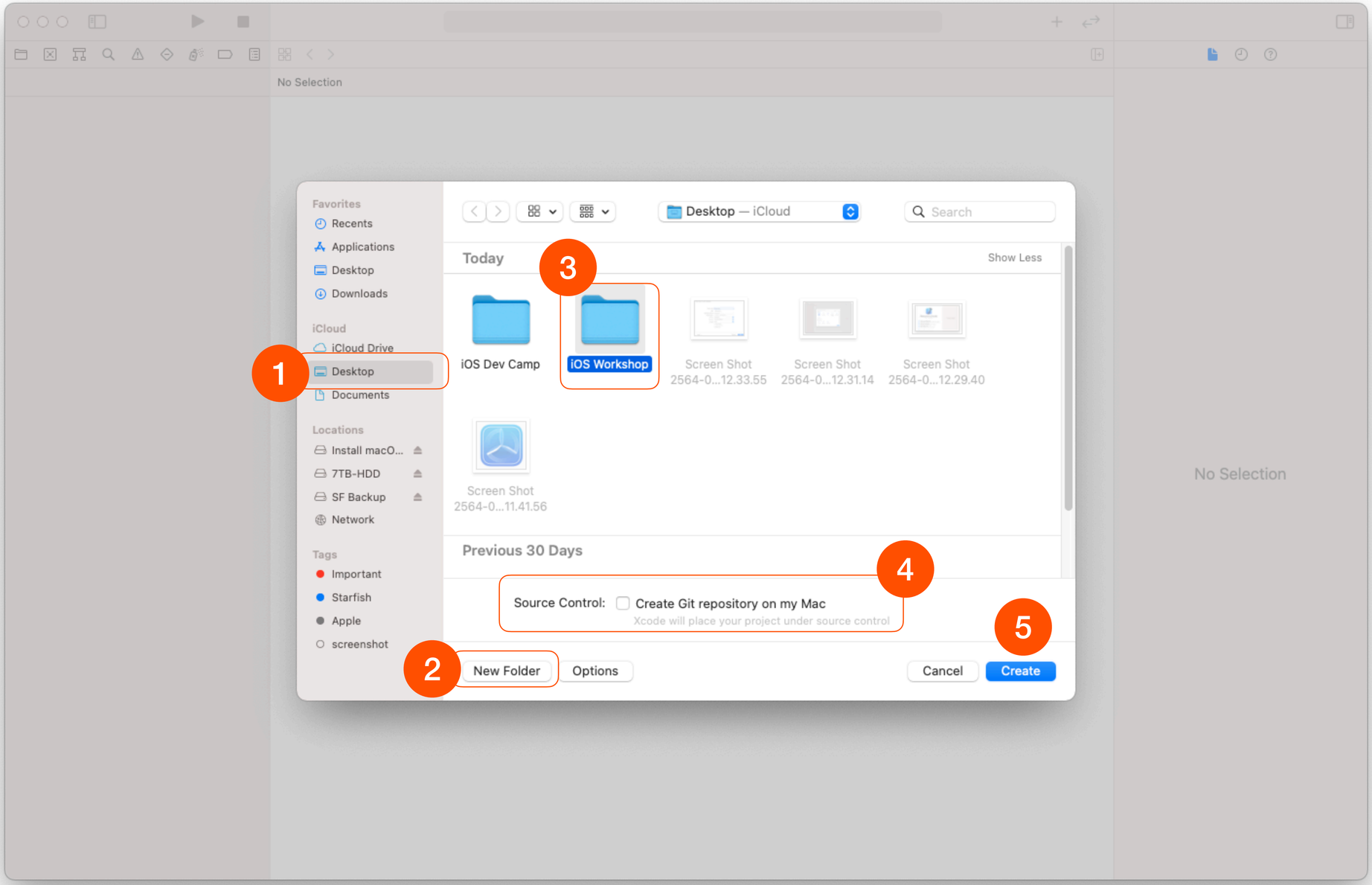

Xcode
Version 26.1.1 (17B100)
Select the components you want to get started with:
1
Platform Support
macOS 26.1
Built-in
iOS 26.1
10.34 GB
watchOS 26.1
5.1 GB
tvOS 26.1
3.62 GB
visionOS 26.1
7.18 GB
2
Other Components
Predictive Code Completion Model
Installed
3
Download & Install
Required system components will also be installed.

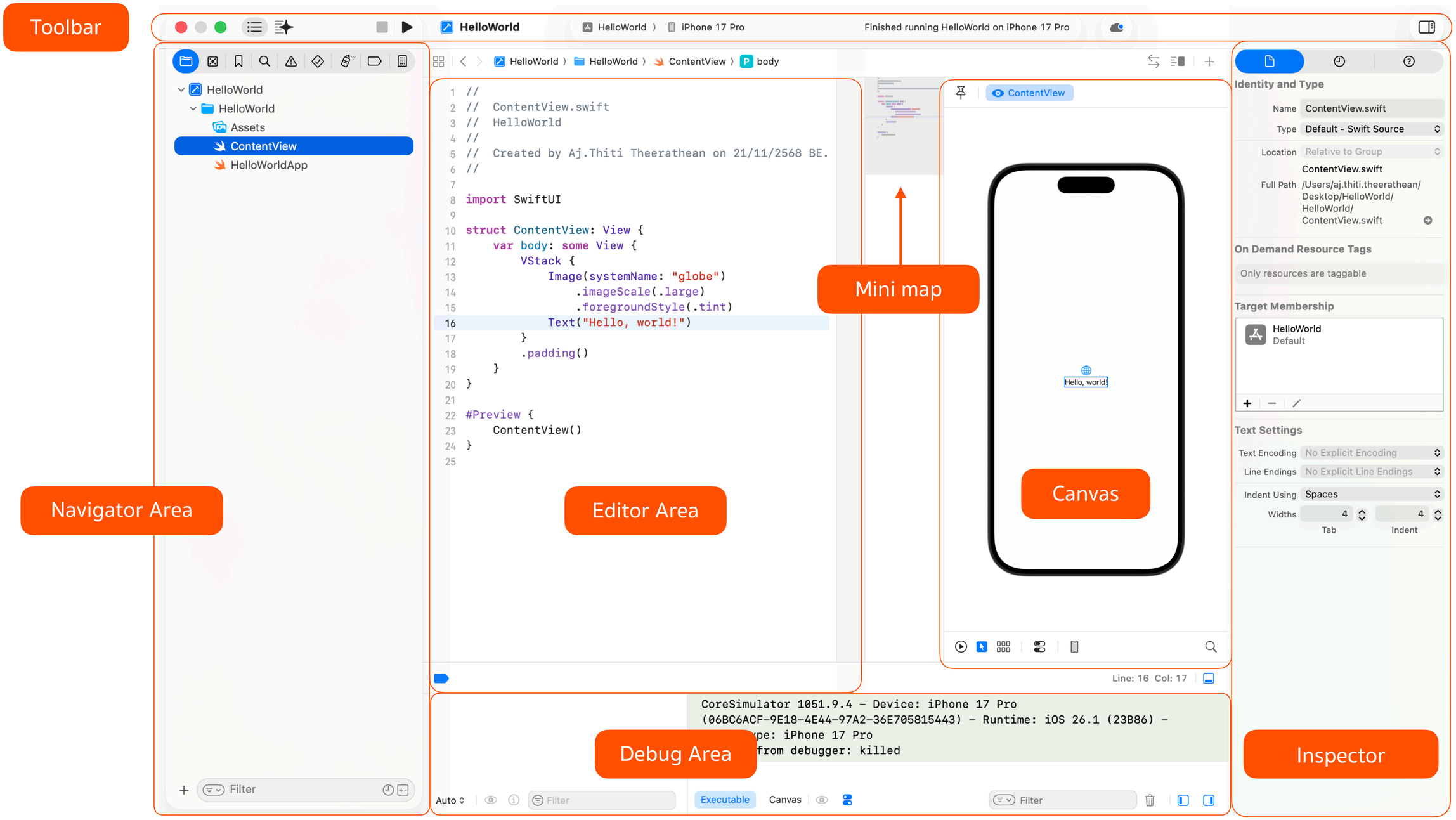
Create your Hello World App for iOS Device with SwiftUI

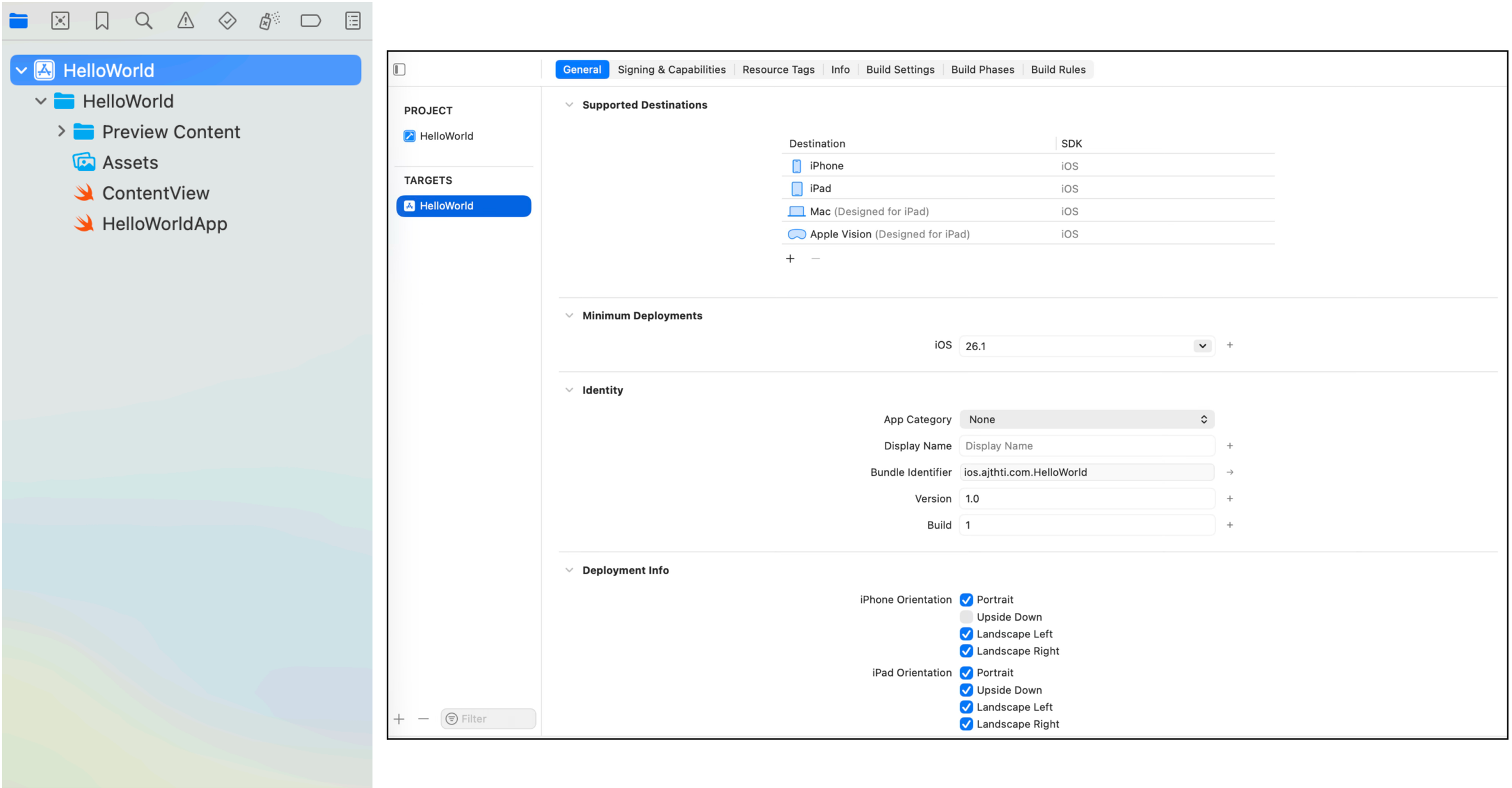

Xcode
Version 26.1.1
No Recent Projects
Create New Project...
Clone Git Repository...
Open Existing Project...

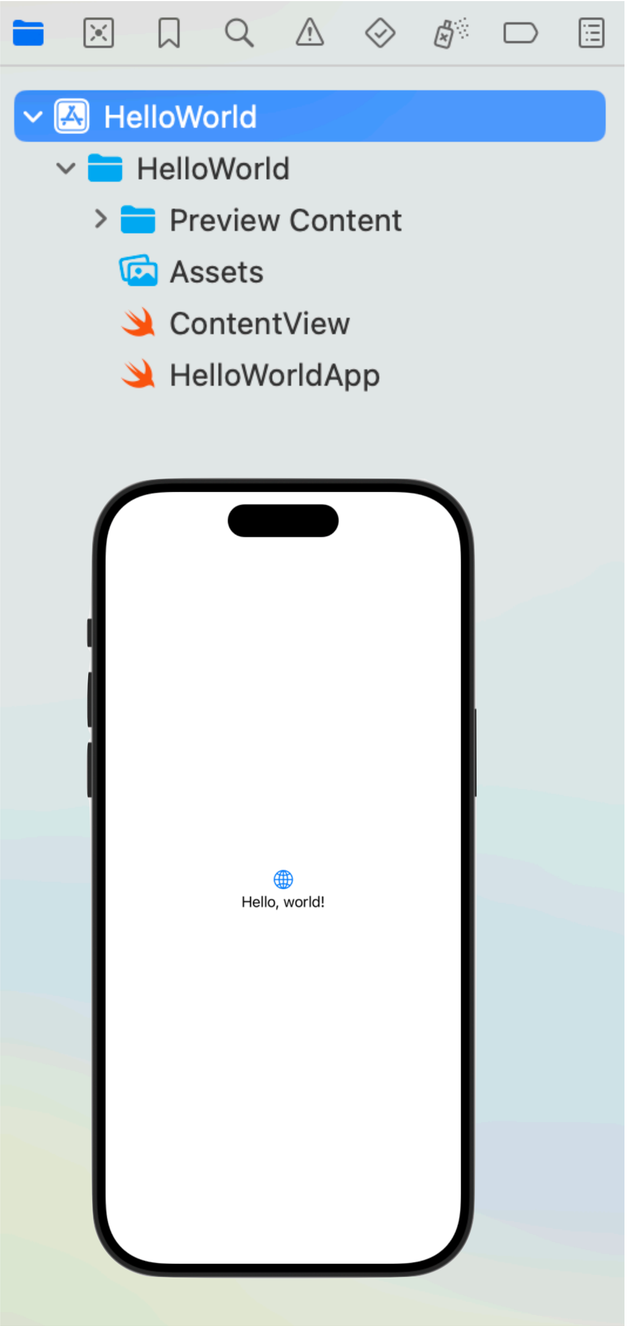

Choose a te for your new project:
1
Multiplatform
iOS
macOS
watchOS
tvOS
visionOS
DriverKit
Other
Filter
Application
2
App
Document App
Game
Augmented Reality App
App Playground
Sticker Pack App
iMessage App
Safari Extension App
Framework & Library
Framework
Static Library
Metal Library
3
Cancel
Previous
Next


Choose options for your new project:
4
Product Name:
HelloWorld
5
Team:
Add account...
Organization Identifier:
ios.ajthti.com
Bundle Identifier:
ios.ajthti.com.HelloWorld
6
Interface:
SwiftUI
Language:
Swift
Testing System:
None
Storage:
None
Host in CloudKit
7
Cancel
Previous
Next


No Selection
Favorites
Recents
Applications
Desktop
Downloads
iCloud
iCloud Drive
Desktop
Documents
Locations
Install macO...
7TB-HDD
SF Backup
Network
Tags
Important
Starfish
Apple
screenshot
Desktop — iCloud
Search
Today
Show Less
iOS Dev Camp
iOS Workshop
Screen Shot 2564-0...12.33.55
Screen Shot 2564-0...12.31.14
Screen Shot 2564-0...12.29.40
Screen Shot 2564-0...11.41.56
Previous 30 Days
Source Control:
Create Git repository on my Mac
Xcode will place your project under source control
New Folder
Options
Cancel
Create
1
2
3
4
5
No Selection


Toolbar
HelloWorld
HelloWorld ⟩ iPhone 17 Pro
Finished running HelloWorld on iPhone 17 Pro
HelloWorld
HelloWorld
Assets
ContentView
HelloWorldApp
HelloWorld ⟩ HelloWorld ⟩ ContentView ⟩ body
1 //
2 // ContentView.swift
3 // HelloWorld
4 //
5 // Created by Aj.Thiti Theerathean on 21/11/2568 BE.
6 //
7
8 import SwiftUI
9
10 struct ContentView: View {
11 var body: some View {
12 VStack {
13 Image(systemName: "globe")
14 .imageScale(.large)
15 .foregroundStyle(.tint)
16 Text("Hello, world!")
17 }
18 .padding()
19 }
20 }
21
22 #Preview {
23 ContentView()
24 }
25
Mini map
ContentView
Hello, world!
Canvas
Identity and Type
Name ContentView.swift
Type Default - Swift Source
Location Relative to Group
ContentView.swift
Full Path /Users/aj.thiti.theerathean/Desktop/HelloWorld/HelloWorld/ContentView.swift
On Demand Resource Tags
Only resources are taggable
Target Membership
HelloWorld
Default
Text Settings
Text Encoding No Explicit Encoding
Line Endings No Explicit Line Endings
Indent Using Spaces
Widths 4 Tab 4 Indent
Navigator Area
Editor Area
Line: 16 Col: 17
CoreSimulator 1051.9.4 - Device: iPhone 17 Pro
(06BC6ACF-9E18-4E44-97A2-36E705815443) - Runtime: iOS 26.1 (23B86) -
pe: iPhone 17 Pro
from debugger: killed
Debug Area
Inspector
Auto
Filter
Executable
Canvas


HelloWorld
HelloWorld
Preview Content
Assets
ContentView
HelloWorldApp
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
HelloWorld
TARGETS
HelloWorld
Supported Destinations
Destination
SDK
iPhone
iOS
iPad
iOS
Mac (Designed for iPad)
iOS
Apple Vision (Designed for iPad)
iOS
Minimum Deployments
iOS
26.1
Identity
App Category
None
Display Name
Display Name
Bundle Identifier
ios.ajthti.com.HelloWorld
Version
1.0
Build
1
Deployment Info
iPhone Orientation
Portrait
Upside Down
Landscape Left
Landscape Right
iPad Orientation
Portrait
Upside Down
Landscape Left
Landscape Right
Filter



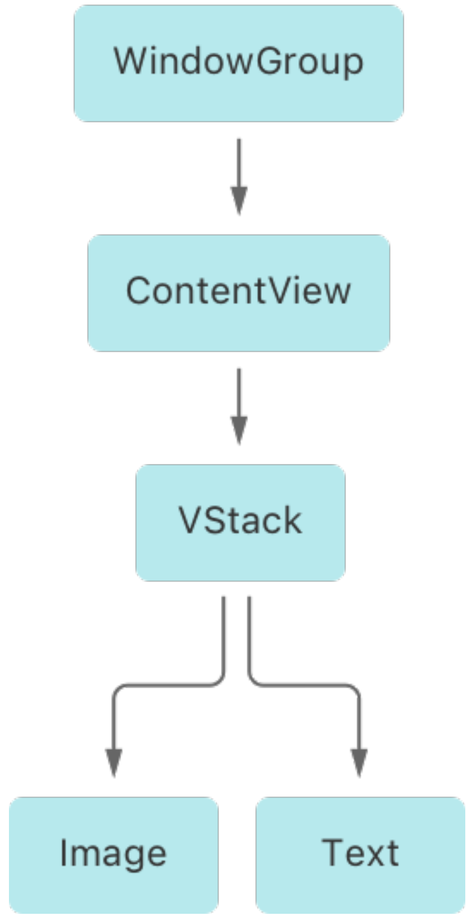
HelloworldApp.swift

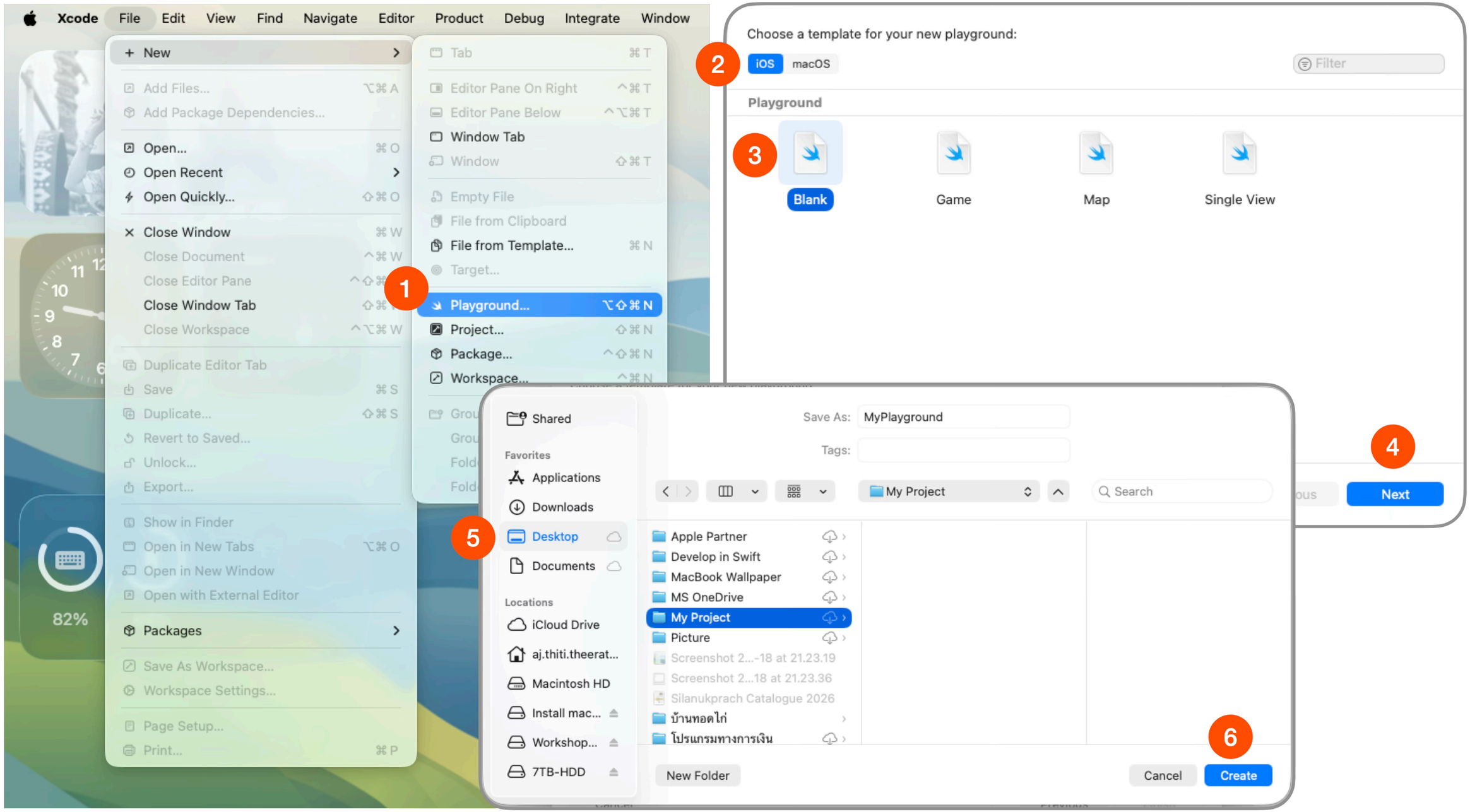
```swift
import SwiftUI

@main
struct HelloWorldApp: App {
    var body: some Scene {
        WindowGroup {
            ContentView()
        }
    }
}
```

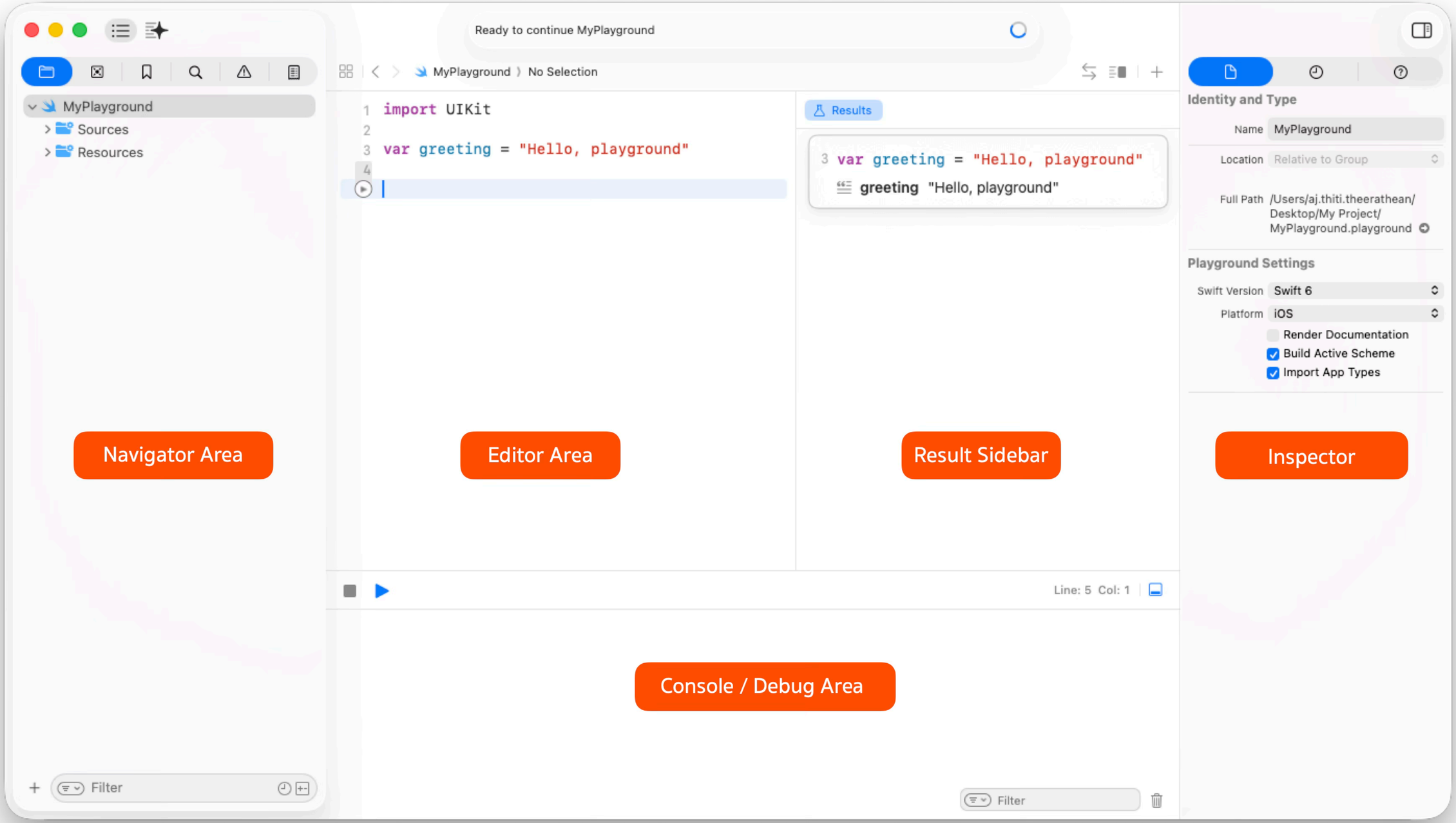
ContentView.swift

```swift
import SwiftUI

struct ContentView: View {
    var body: some View {
        VStack {
            Image(systemName: "globe")
                .imageScale(.large)
                .foregroundStyle(.tint)
            Text("Hello, world!")
        }
        .padding()
    }
}

#Preview {
    ContentView()
}
```

App structure

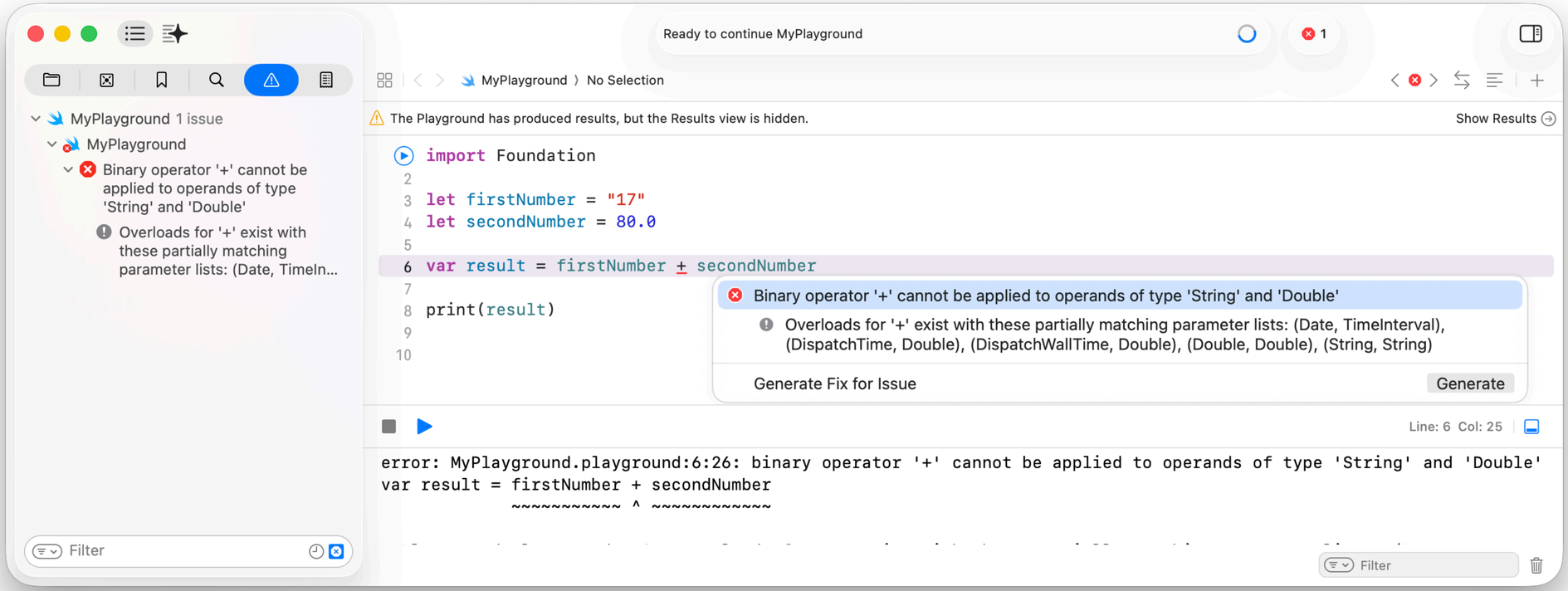


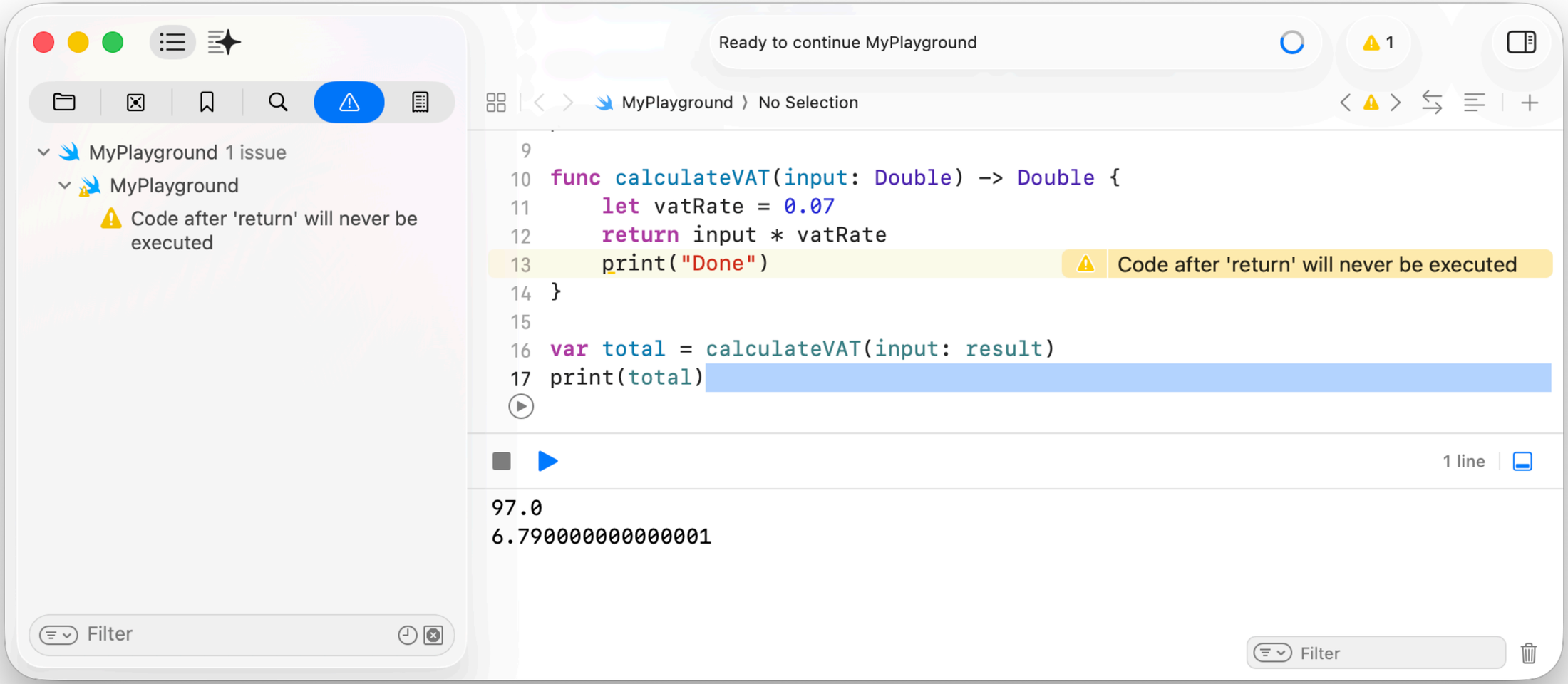

Xcode
File
Edit
View
Find
Navigate
Editor
Product
Debug
Integrate
Window
New
Add Files...
Add Package Dependencies...
Open...
Open Recent
Open Quickly...
Close Window
Close Document
Close Editor Pane
Close Window Tab
Close Workspace
Duplicate Editor Tab
Save
Duplicate...
Revert to Saved...
Unlock...
Export...
Show in Finder
Open in New Tabs
Open in New Window
Open with External Editor
Packages
Save As Workspace...
Workspace Settings...
Page Setup...
Print...
Tab
Editor Pane On Right
Editor Pane Below
Window Tab
Window
Empty File
File from Clipboard
File from Template...
Target...
Playground...
Project...
Package...
Workspace...
1
Choose a template for your new playground:
2
iOS
macOS
Filter
Playground
3
Blank
Game
Map
Single View
4
Next
Shared
Favorites
Applications
Downloads
Desktop
Documents
Locations
iCloud Drive
aj.thiti.theerat...
Macintosh HD
Install mac...
Workshop...
7TB-HDD
5
Save As:
MyPlayground
Tags:
My Project
Search
Apple Partner
Develop in Swift
MacBook Wallpaper
MS OneDrive
My Project
Picture
Screenshot 2...-18 at 21.23.19
Screenshot 2...18 at 21.23.36
Silanukprach Catalogue 2026
บ้านทอดไก่
โปรแกรมทางการเงิน
New Folder
Cancel
Create
6
82%

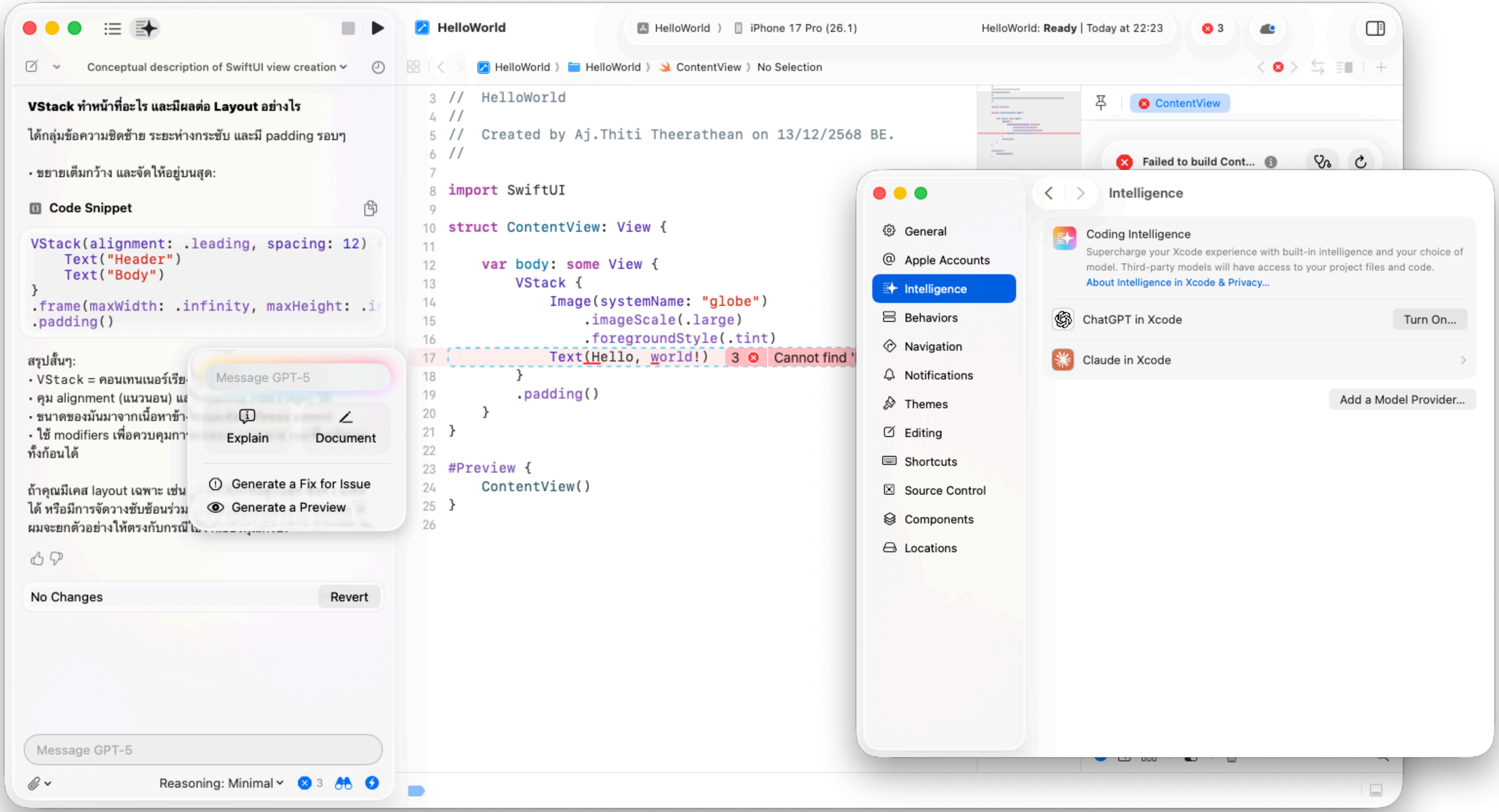

Ready to continue MyPlayground
MyPlayground
No Selection
MyPlayground
Sources
Resources
1 import UIKit
2
3 var greeting = "Hello, playground"
4
Results
3 var greeting = "Hello, playground"
greeting "Hello, playground"
Identity and Type
Name MyPlayground
Location Relative to Group
Full Path /Users/aj.thiti.theerathean/Desktop/My Project/MyPlayground.playground
Playground Settings
Swift Version Swift 6
Platform iOS
Render Documentation
Build Active Scheme
Import App Types
Line: 5 Col: 1
Filter
Filter
Navigator Area
Editor Area
Result Sidebar
Inspector
Console / Debug Area

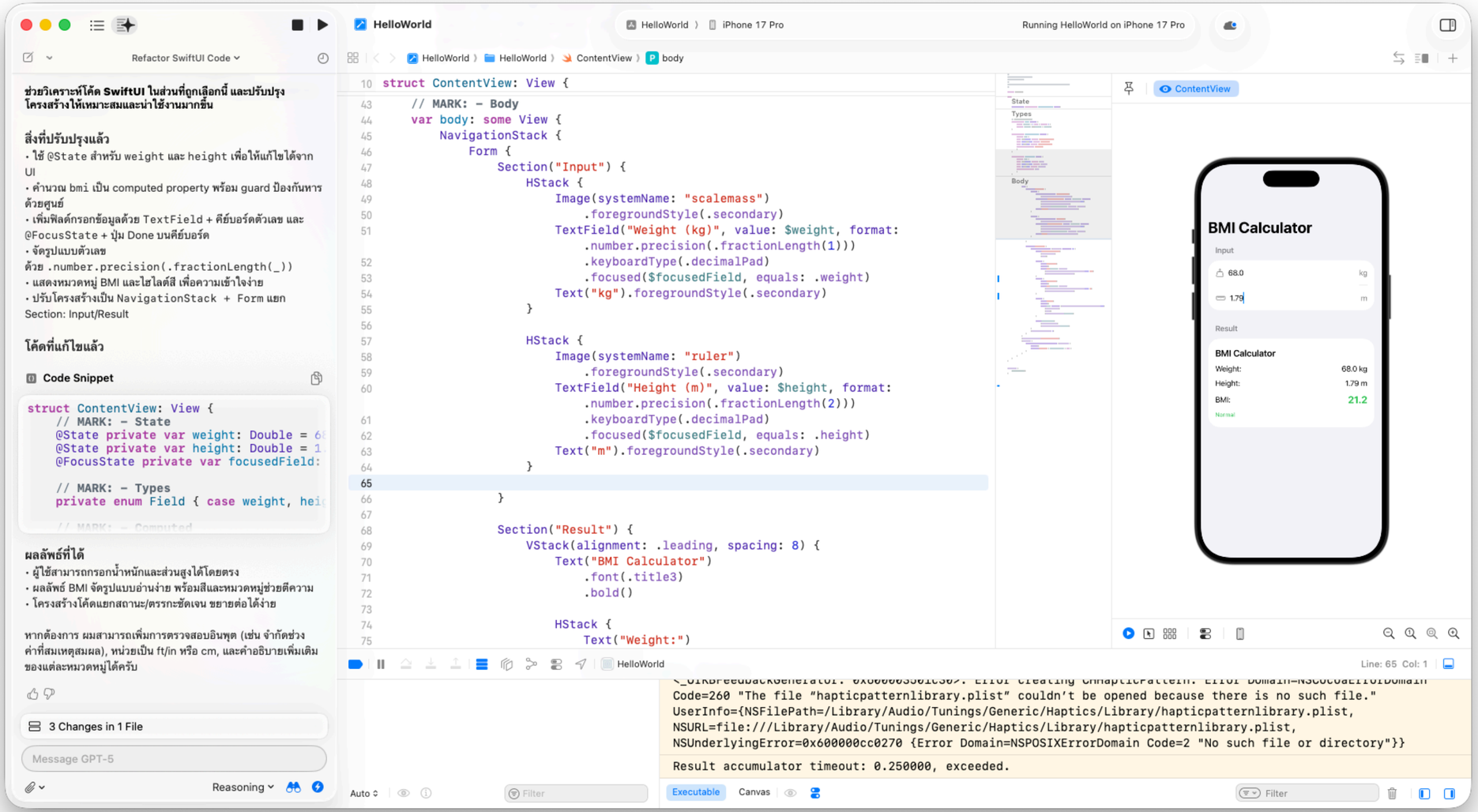
```swift
import Foundation

var numbers = [42, 18, 30, 15, 50]

for i in 0..<numbers.count {
    for j in 0..<numbers.count - i - 1 {
        if numbers[j] > numbers[j + 1] {
            let temp = numbers[j]
            numbers[j] = numbers[j + 1]
            numbers[j + 1] = temp
        }
    }
}

print(numbers)
```

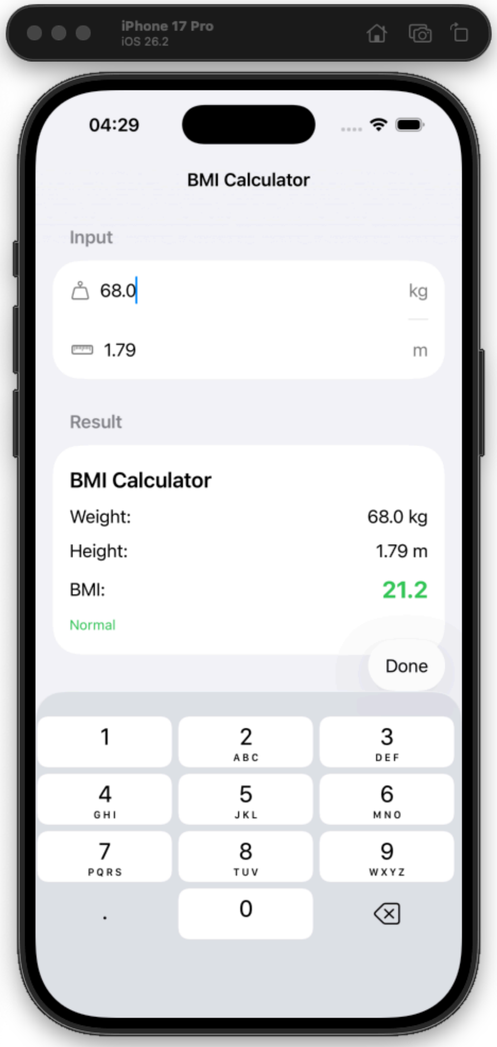
```swift
import Foundation

let firstNumber = "17"
let secondNumber = 80.0

var result = firstNumber + secondNumber

print(result)
```

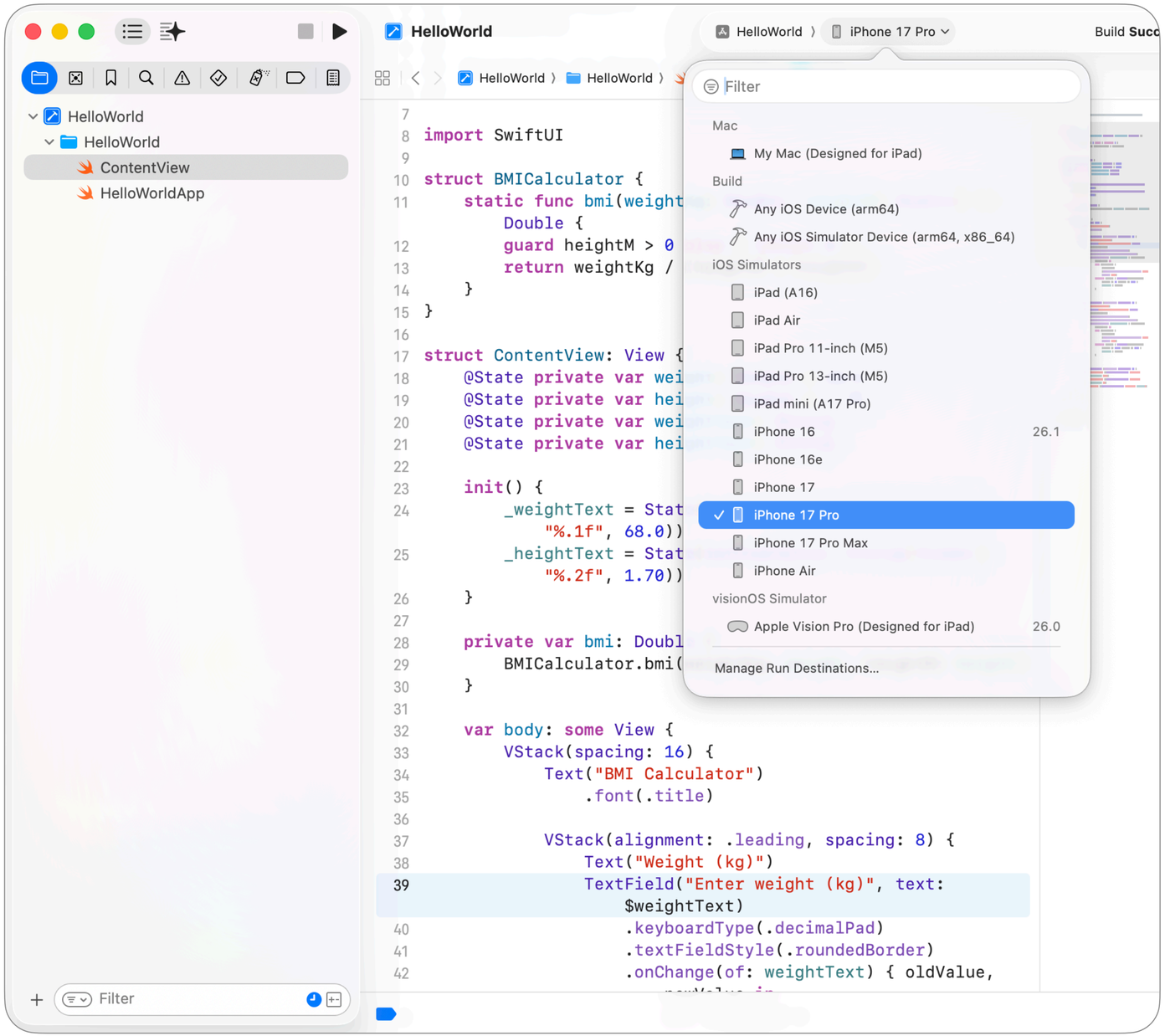



Ready to continue MyPlayground
1
MyPlayground 1 issue
MyPlayground
Code after 'return' will never be executed
Filter
MyPlayground
No Selection
9
10 func calculateVAT(input: Double) -> Double {
11 let vatRate = 0.07
12 return input * vatRate
13 print("Done")
Code after 'return' will never be executed
14 }
15
16 var total = calculateVAT(input: result)
17 print(total)
1 line
97.0
6.790000000000001
Filter

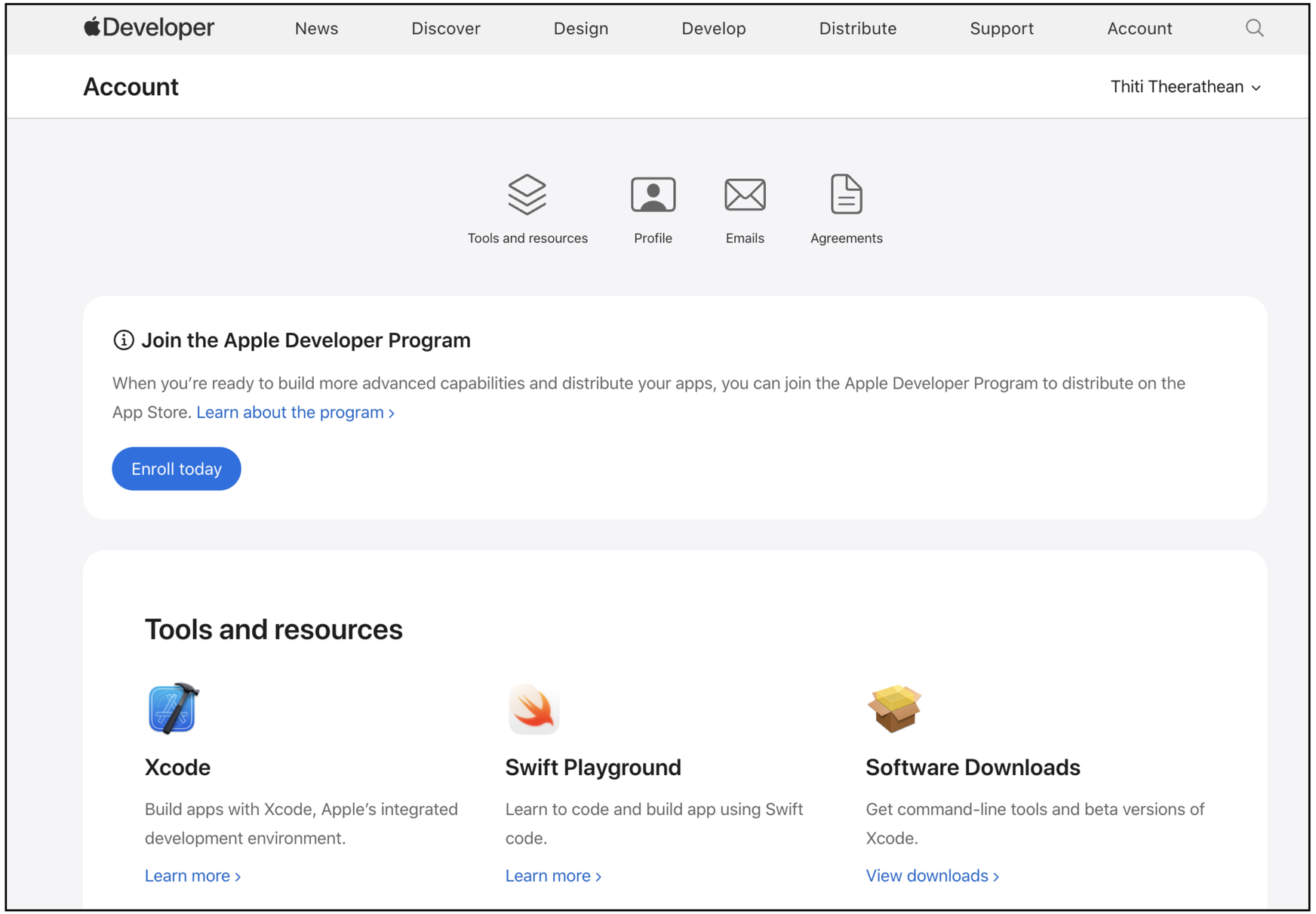

HelloWorld
HelloWorld ⟩ iPhone 17 Pro (26.1)
HelloWorld: Ready | Today at 22:23
Conceptual description of SwiftUI view creation
VStack ทำหน้าที่อะไร และมีผลต่อ Layout อย่างไร
ได้กลุ่มข้อความชิดซ้าย ระยะห่างกระชับ และมี padding รอบๆ
• ขยายเต็มกว้าง และจัดให้อยู่บนสุด:
Code Snippet
VStack(alignment: .leading, spacing: 12)
Text("Header")
Text("Body")
.frame(maxWidth: .infinity, maxHeight: .i
.padding()
สรุปสั้นๆ:
• VStack = คอนเทนเนอร์เรีย
• คุม alignment (แนวนอน) แล
• ขนาดของมันมาจากเนื้อหาข้า
• ใช้ modifiers เพื่อควบคุมกา
ทั้งก้อนได้
ถ้าคุณมีเคส layout เฉพาะ เช่น
ได้ หรือมีการจัดวางซับซ้อนร่วม
ผมจะยกตัวอย่างให้ตรงกับกรณีใ
Message GPT-5
Explain
Document
Generate a Fix for Issue
Generate a Preview
No Changes
Revert
Message GPT-5
Reasoning: Minimal
HelloWorld ⟩ HelloWorld ⟩ ContentView ⟩ No Selection
// HelloWorld
//
// Created by Aj.Thiti Theerathean on 13/12/2568 BE.
//
import SwiftUI
struct ContentView: View {
var body: some View {
VStack {
Image(systemName: "globe")
.imageScale(.large)
.foregroundStyle(.tint)
Text(Hello, world!) 3 Cannot find '
}
.padding()
}
}
#Preview {
ContentView()
}
ContentView
Failed to build Cont...
Intelligence
General
Apple Accounts
Intelligence
Behaviors
Navigation
Notifications
Themes
Editing
Shortcuts
Source Control
Components
Locations
Coding Intelligence
Supercharge your Xcode experience with built-in intelligence and your choice of model. Third-party models will have access to your project files and code.
About Intelligence in Xcode & Privacy...
ChatGPT in Xcode
Turn On...
Claude in Xcode
Add a Model Provider...


Refactor SwiftUI Code
ช่วยวิเคราะห์โค้ด SwiftUI ในส่วนที่ถูกเลือกนี้ และปรับปรุงโครงสร้างให้เหมาะสมและน่าใช้งานมากขึ้น
สิ่งที่ปรับปรุงแล้ว
• ใช้ @State สำหรับ weight และ height เพื่อให้แก้ไขได้จาก UI
• คำนวณ bmi เป็น computed property พร้อม guard ป้องกันหารด้วยศูนย์
• เพิ่มฟิลด์กรอกข้อมูลด้วย TextField + คีย์บอร์ดตัวเลข และ @FocusState + ปุ่ม Done บนคีย์บอร์ด
• จัดรูปแบบตัวเลขด้วย .number.precision(.fractionLength(_))
• แสดงหมวดหมู่ BMI และไฮไลต์สี เพื่อความเข้าใจง่าย
• ปรับโครงสร้างเป็น NavigationStack + Form แยก Section: Input/Result
โค้ดที่แก้ไขแล้ว
Code Snippet
ผลลัพธ์ที่ได้
• ผู้ใช้สามารถกรอกน้ำหนักและส่วนสูงได้โดยตรง
• ผลลัพธ์ BMI จัดรูปแบบอ่านง่าย พร้อมสีและหมวดหมู่ช่วยตีความ
• โครงสร้างโค้ดแยกสถานะ/ตรรกะชัดเจน ขยายต่อได้ง่าย
หากต้องการ ผมสามารถเพิ่มการตรวจสอบอินพุต (เช่น จำกัดช่วงค่าที่สมเหตุสมผล), หน่วยเป็น ft/in หรือ cm, และคำอธิบายเพิ่มเติมของแต่ละหมวดหมู่ได้ครับ
3 Changes in 1 File
Message GPT-5
Reasoning
HelloWorld
HelloWorld) iPhone 17 Pro
Running HelloWorld on iPhone 17 Pro
HelloWorld) HelloWorld) ContentView) body
struct ContentView: View {
// MARK: - Body
var body: some View {
NavigationStack {
Form {
Section("Input") {
HStack {
Image(systemName: "scalemass")
.foregroundStyle(.secondary)
TextField("Weight (kg)", value: $weight, format:
.number.precision(.fractionLength(1)))
.keyboardType(.decimalPad)
.focused($focusedField, equals: .weight)
Text("kg").foregroundStyle(.secondary)
}
HStack {
Image(systemName: "ruler")
.foregroundStyle(.secondary)
TextField("Height (m)", value: $height, format:
.number.precision(.fractionLength(2)))
.keyboardType(.decimalPad)
.focused($focusedField, equals: .height)
Text("m").foregroundStyle(.secondary)
}
}
Section("Result") {
VStack(alignment: .leading, spacing: 8) {
Text("BMI Calculator")
.font(.title3)
.bold()
HStack {
Text("Weight:")
ContentView
BMI Calculator
Input
68.0 kg
1.79 m
Result
BMI Calculator
Weight: 68.0 kg
Height: 1.79 m
BMI: 21.2
Normal
Line: 65 Col: 1
Code=260 "The file "hapticpatternlibrary.plist" couldn't be opened because there is no such file."
UserInfo={NSFilePath=/Library/Audio/Tunings/Generic/Haptics/Library/hapticpatternlibrary.plist,
NSURL=file:///Library/Audio/Tunings/Generic/Haptics/Library/hapticpatternlibrary.plist,
NSUnderlyingError=0x600000cc0270 {Error Domain=NSPOSIXErrorDomain Code=2 "No such file or directory"}}
Result accumulator timeout: 0.250000, exceeded.
Auto
Filter
Executable
Canvas
Filter


iPhone 17 Pro
iOS 26.2
04:29
BMI Calculator
Input
68.0 kg
1.79 m
Result
BMI Calculator
Weight: 68.0 kg
Height: 1.79 m
BMI: 21.2
Normal
Done
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
0


HelloWorld
HelloWorld 〉 iPhone 17 Pro
Build Succ
HelloWorld
HelloWorld
ContentView
HelloWorldApp
HelloWorld 〉 HelloWorld 〉
Filter
Mac
My Mac (Designed for iPad)
Build
Any iOS Device (arm64)
Any iOS Simulator Device (arm64, x86_64)
iOS Simulators
iPad (A16)
iPad Air
iPad Pro 11-inch (M5)
iPad Pro 13-inch (M5)
iPad mini (A17 Pro)
iPhone 16
26.1
iPhone 16e
iPhone 17
iPhone 17 Pro
iPhone 17 Pro Max
iPhone Air
visionOS Simulator
Apple Vision Pro (Designed for iPad)
26.0
Manage Run Destinations...
import SwiftUI
struct BMICalculator {
static func bmi(weight
Double {
guard heightM > 0
return weightKg /
}
}
struct ContentView: View {
@State private var wei
@State private var hei
@State private var wei
@State private var hei
init() {
_weightText = Stat
"%.1f", 68.0))
_heightText = Stat
"%.2f", 1.70))
}
private var bmi: Doubl
BMICalculator.bmi(
}
var body: some View {
VStack(spacing: 16) {
Text("BMI Calculator")
.font(.title)
VStack(alignment: .leading, spacing: 8) {
Text("Weight (kg)")
TextField("Enter weight (kg)", text:
$weightText)
.keyboardType(.decimalPad)
.textFieldStyle(.roundedBorder)
.onChange(of: weightText) { oldValue,
Filter


iPhone 17 Pro
iOS 26.1
13:14
Fitness
Watch
Contacts
Files
Preview
Utilities
DemoApp
WelcomeScreen
UIKitDemo02
HelloWorld
Search


Developer
News
Discover
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Develop
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Support
Account
Account
Thiti Theerathean
Tools and resources
Profile
Emails
Agreements
Join the Apple Developer Program
When you're ready to build more advanced capabilities and distribute your apps, you can join the Apple Developer Program to distribute on the App Store. Learn about the program ›
Enroll today
Tools and resources
Xcode
Build apps with Xcode, Apple's integrated development environment.
Learn more ›
Swift Playground
Learn to code and build app using Swift code.
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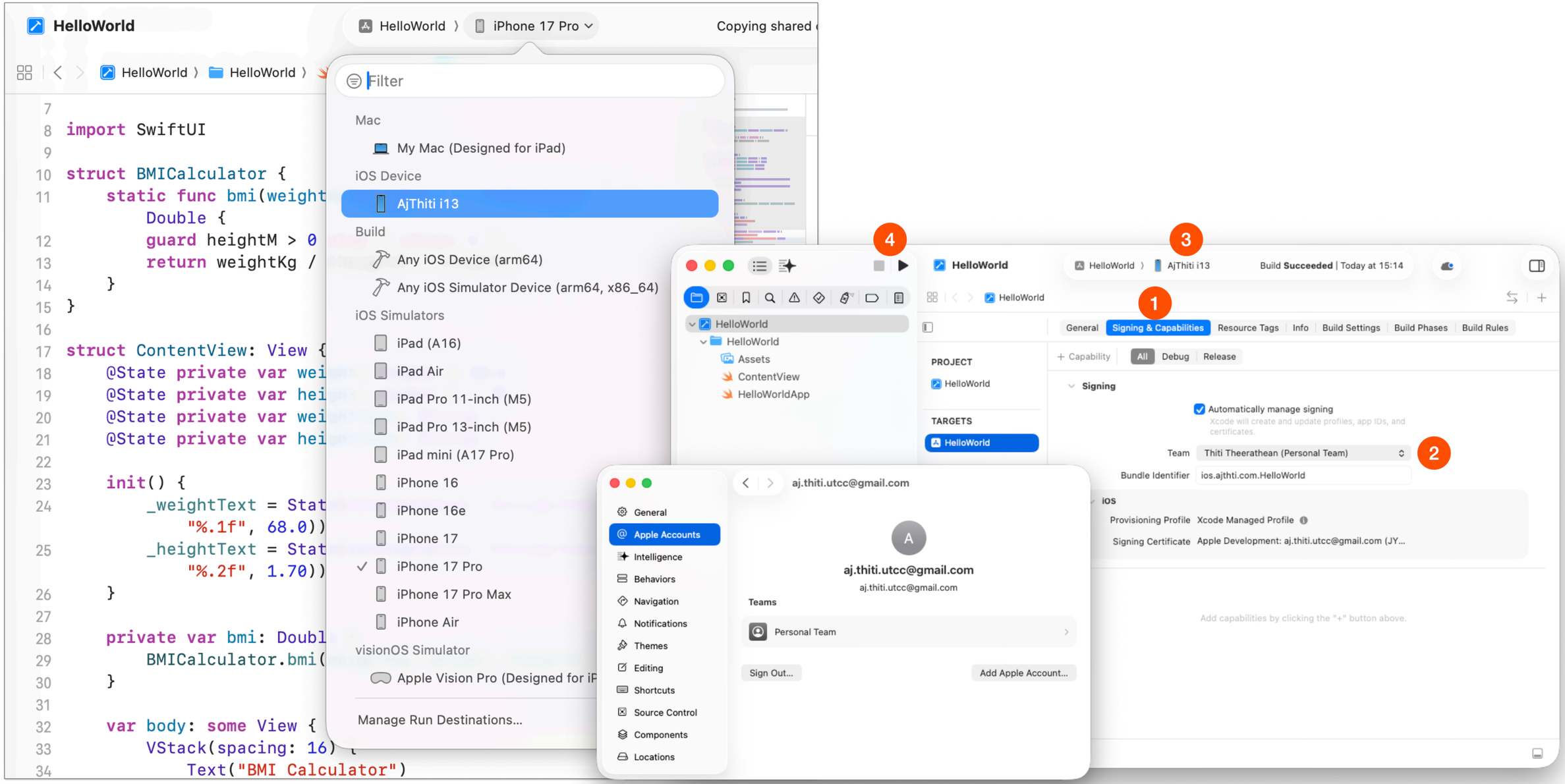
HelloWorld
HelloWorld ⟩ iPhone 17 Pro
Copying shared
HelloWorld ⟩ HelloWorld ⟩
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Double {
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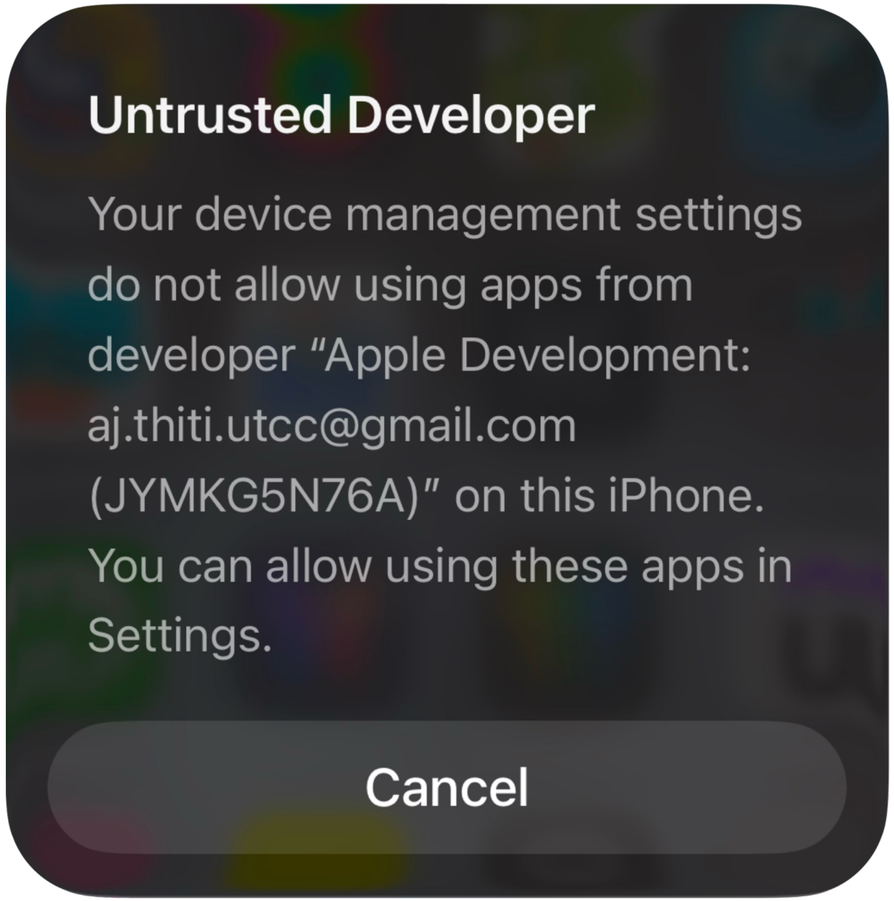
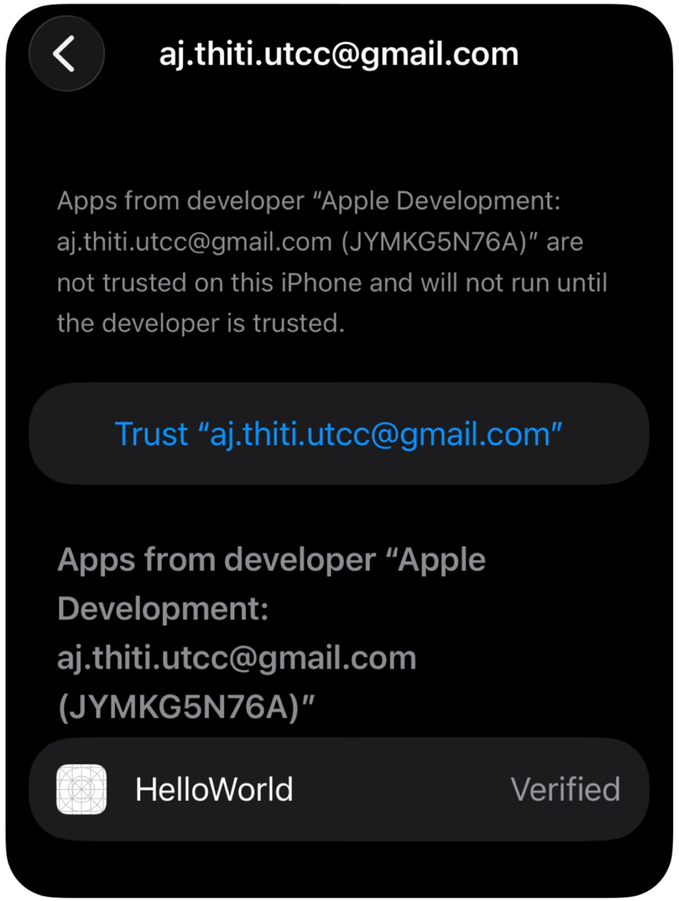
VStack(spacing: 16)
Text("BMI Calculator")
Filter
Mac
My Mac (Designed for iPad)
iOS Device
AjThiti i13
Build
Any iOS Device (arm64)
Any iOS Simulator Device (arm64, x86_64)
iOS Simulators
iPad (A16)
iPad Air
iPad Pro 11-inch (M5)
iPad Pro 13-inch (M5)
iPad mini (A17 Pro)
iPhone 16
iPhone 16e
iPhone 17
iPhone 17 Pro
iPhone 17 Pro Max
iPhone Air
visionOS Simulator
Apple Vision Pro (Designed for iP
Manage Run Destinations...
4
3
HelloWorld
HelloWorld ⟩ AjThiti i13
Build Succeeded | Today at 15:14
HelloWorld
Assets
ContentView
HelloWorldApp
1
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
HelloWorld
TARGETS
HelloWorld
+ Capability
All
Debug
Release
Signing
Automatically manage signing
Xcode will create and update profiles, app IDs, and certificates.
Team
Thiti Theerathean (Personal Team)
2
Bundle Identifier
ios.ajthiti.com.HelloWorld
iOS
Provisioning Profile
Xcode Managed Profile
Signing Certificate
Apple Development: aj.thiti.utcc@gmail.com (JY...
Add capabilities by clicking the "+" button above.
aj.thiti.utcc@gmail.com
General
Apple Accounts
Intelligence
Behaviors
Navigation
Notifications
Themes
Editing
Shortcuts
Source Control
Components
Locations
A
aj.thiti.utcc@gmail.com
aj.thiti.utcc@gmail.com
Teams
Personal Team
Sign Out...
Add Apple Account...


Untrusted Developer
Your device management settings do not allow using apps from developer “Apple Development: aj.thiti.utcc@gmail.com (JYMKG5N76A)” on this iPhone. You can allow using these apps in Settings.
Cancel


aj.thiti.utcc@gmail.com
Apps from developer “Apple Development: aj.thiti.utcc@gmail.com (JYMKG5N76A)” are not trusted on this iPhone and will not run until the developer is trusted.
Trust “aj.thiti.utcc@gmail.com”
Apps from developer “Apple Development: aj.thiti.utcc@gmail.com (JYMKG5N76A)”
HelloWorld
Verified