# How to Add Microphone Permission

## Method 1: Using Xcode UI (Recommended)

### Step-by-Step Instructions:

1. **Open the project** in Xcode:

open DebateFeedback.xcodeproj

1. **Select the target**:
   * In the left sidebar (Project Navigator), click on the **DebateFeedback** project (blue icon at the top)
   * In the center panel under "TARGETS", select **DebateFeedback**
2. **Go to Info tab**:
   * Click the **Info** tab at the top (next to "General", "Signing & Capabilities")
3. **Add the permission**:
   * Look for the section "Custom iOS Target Properties"
   * Click the **+** button (or right-click and select "Add Row")
   * In the dropdown that appears, start typing: **"Privacy - Microphone"**
   * Select: **"Privacy - Microphone Usage Description"**
   * In the "Value" column, paste this text:

We need access to the microphone to record debate speeches.

1. **Verify**:
   * You should now see a row that looks like:

Privacy - Microphone Usage Description | String | We need access to the microphone to record debate speeches.

1. **Build**:
   * Press **⌘B** to build (should succeed)

## Method 2: If You Can't Find the Key

If you can't find "Privacy - Microphone Usage Description" in the dropdown:

1. Follow steps 1-3 above
2. Click the **+** button
3. **Type the raw key name exactly**: NSMicrophoneUsageDescription
4. Press Enter/Return
5. Change the Type to **String** (if it's not already)
6. Set the Value to: We need access to the microphone to record debate speeches.

## Method 3: Create Info.plist File (Alternative)

If the above methods don't work:

1. In Xcode, right-click on the **DebateFeedback** folder (yellow folder in left sidebar)
2. Select **New File...**
3. Choose **Property List** under "Resource"
4. Name it **Info.plist**
5. Make sure it's added to the **DebateFeedback** target (checkbox)
6. Click **Create**
7. Right-click on the new Info.plist file
8. Select **Open As** → **Source Code**
9. Replace the contents with:

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">

<plist version="1.0">

<dict>

<key>NSMicrophoneUsageDescription</key>

<string>We need access to the microphone to record debate speeches.</string>

</dict>

</plist>

1. Save the file (⌘S)
2. Clean build folder (⌘⇧K)
3. Build (⌘B)

## Verification

After adding the permission:

1. Build the project (⌘B) - should succeed
2. Run on a device (⌘R)
3. When you first try to record, you should see a system alert that says:

"DebateFeedback" Would Like to Access the Microphone

We need access to the microphone to record debate speeches.

[Don't Allow] [OK]

If you see this alert, the permission is correctly configured! ✅

## Troubleshooting

### "Can't find the key in dropdown"

* Use the raw key name: NSMicrophoneUsageDescription
* Make sure you're in the **Info** tab, not "Build Settings"

### "Still getting permission error"

* Clean build folder: **⌘⇧K**
* Delete app from device/simulator
* Build and run again

### "I don't see 'Custom iOS Target Properties'"

* Make sure you're viewing the **target's** Info tab, not the project's
* The target is under "TARGETS" section, not "PROJECT" section

## Quick Visual Guide

**Where to find things:**

Xcode Window

├── Left Sidebar (Project Navigator)

│ └── DebateFeedback (blue icon) ← Click this

│

├── Center Panel

│ ├── PROJECT: DebateFeedback ← Not this

│ └── TARGETS: DebateFeedback ← Click this!

│

└── Top Tabs

├── General

├── Signing & Capabilities

├── Resource Tags

├── Info ← Click this!

├── Build Settings

└── Build Phases

In the Info tab, look for a section with rows like:

Key | Type | Value

---------------------------------------|--------|------------------

Bundle name | String | $(PRODUCT\_NAME)

Bundle identifier | String | com.yourapp...

Privacy - Microphone Usage Description | String | We need access... ← Add this

## After Adding Permission

Once the permission is added:

1. **Build** (⌘B) - Should succeed ✅
2. **Run** (⌘R) on a real device
3. **Test the app**:
   * Login as Guest
   * Setup debate
   * Tap START
   * Grant microphone permission when prompted
   * Recording should work!

**If you're still having trouble, let me know and I can provide alternative solutions!**