# git clone https://github.com/sidsharma27/OpenLive-iOS -b StartProject

Podfile should already be in your starter project, open the Podfile via Terminal

open Podfile

#### Double check the dependency is included in the Podfile

```
target 'OpenLive' do
    use_frameworks!
    pod 'AgoraRtcEngine_iOS'
end
```

#### Install the pod & open the newly created .xcworkspace file

pod install

### **Add Privacy Settings - Info.plist**



# 2) Create & Initialize 'AgoraRtcEngineKit' object

Create the 'AgoraRtcEngineKit' object and initialize it class as a singleton instance

```
import AgoraRtcEngineKit

var rtcEngine : AgoraRtcEngineKit!
func loadAgoraKit() {
    rtcEngine = AgoraRtcEngineKit.sharedEngine(withAppId: KeyCenter.AppID, delegate: self)
}
```

# 3) Set Channel Profile

#### Set the Channel Profile to Live Broadcast

rtcEngine.setChannelProfile(.channelProfile\_LiveBroadcasting)

### 4) Enable Video Mode

Enables video data to be sent to stream, without this -> Audio Only

```
rtcEngine.enableVideo()
```

### 5) Set Channel Profile

Tells AgoraRtcEngine what type of channel it is in order to optimize the particular call

```
engine.setChannelProfile(.channelProfile_LiveBroadcasting)
```

# 6) Set video resolution

#### Sets the video encoding profile (FPS / Resolution)

engine.setVideoProfile(videoProfile, swapWidthAndHeight:true)

### 7) Set user role

# Tells RtcEngine which role the member is: Audience or Broadcaster

rtcEngine.setClientRole(clientRole, withKey: nil)

### 8) Enable dual stream mode

# Allows the ability to have two different types of stream modes (high and low)

rtcEngine.enableDualStreamMode(true)

### 9) Set Remote Video Stream

# Adjust stream type based on size of UI windows to save bandwidth & calculation resources (in setStreamType())

```
rtcEngine.setRemoteVideoStream(UInt(session.uid), type: (session == fullScreenSession ? .videoSt
rtcEngine.setRemoteVideoStream(UInt(session.uid), type: .videoStream_High)
```

### 10) Join Channel

Join the channel with App ID as Key (unsecure alternative instead of Dynamic Key - demo purposes only)

```
rtcEngine.joinChannel(byKey: KeyCenter.AppID, channelName: roomName, info: nil, uid: 0, joinSuces
```

## 11) Leave Channel

Stop the local preview, unbind the view, and leave the channel (in leaveChannel())

```
rtcEngine.setupLocalVideo(nil)
rtcEngine.leaveChannel(nil)
```

### 12) Set the local/remote video view

VideoSession is an object that contains the information regarding an individual video session

```
var canvas: AgoraRtcVideoCanvas!
canvas = AgoraRtcVideoCanvas()
canvas.uid = Uint(uid)
canvas.renderMode = .render_Hidden
canvas.view = hostingView
```

Set remote video view in rtcEngine callback

### (didJoinedOfUid)

```
rtcEngine.setupRemoteVideo(userSession.canvas)
```

#### Set local video view in addLocalSession()

```
rtcEngine.setupLocalVideo(localSession.canvas)
```

# 13) Setup additional features

### Switch camera (toggle front/back)

```
@IBAction func doSwitchCameraPressed (_sender:UIButton) {
    rtcEngine?.switchCamera()
}
```

### Mute Local Audio Stream (don't send audio stream)

```
fileprivate var isMuted = false {
    didSet{
        rtcEngine?.muteLocalAudioStream(isMuted)
    }
}
```

# Join broadcast (audience member joins as Guest broadcaster)

```
@IBAction func doBroadcastPressed(_sender:UIButton) {
   if isBroadcaster{
      clientRole= .clientRole_Audience
   } else {
      clientRole= .clientRole_Broadcaster
```

```
}
rtcEngine.setClientRole(clientRole, withKey: nil)
}
```

# Run the app!