

# Apple Store Deployment steps

## Prerequisites

### App Store Icon

You must provide an app icon for your app theme and branding. We need different icon size, the base size we need is 1024 \* 1024. From this image we can generate different app icon from online web tools.

Reference: <https://appicon.co/>

### Splash Screen

For Static splash screen we need to create a 1242 pixels wide and 2436 pixels tall image and keep in assets folder and refer same in app.json

Reference : <https://docs.expo.io/versions/latest/guides/splash-screens/>

### Screen shots

You use *screenshots* and *app previews* to visually communicate your app's user experience through images.

At least 1 and max 5 for each supported devices.

We require below screen shots for App Store submission.

6.5 inch display : For iPhone, screenshots for 6.5-inch iPhone Xs Max

5.5 inch display : 5.5-inch devices (iPhone 6s Plus, iPhone 7 Plus, iPhone 8 Plus)

iPad Pro 3rd Generation 12.9 inch : 12.9-inch iPad Pro (3rd generation) are required

iPad Pro 2nd Generation 12.9 inch : For iPad, screenshots for 12.9-inch iPad Pro (2nd generation)

## Before Build iOS project

Before doing the build process, we have to do some configuration in apple developer account. Before proceeding further we should have an apple

developer account cost around \$99 per year.

## 1. Apple Developer Account : <https://developer.apple.com>

Please login to developer account and navigate to Accounts session.

1.1 Code Sign-in Certificate : This we will use for application build signing for development and production.

The screenshot shows the 'Certificates' section of the Apple Developer portal. On the left, there's a sidebar with links for Certificates, Identifiers, Devices, Profiles, Keys, and More. The main area is titled 'Certificates' and shows two entries:

| NAME       | TYPE                | PLATFORM | CREATED BY | EXPIRATION |
|------------|---------------------|----------|------------|------------|
| [REDACTED] | Apple Push Services | iOS      | [REDACTED] | 2020/11/11 |
| [REDACTED] | iOS Distribution    | iOS      | [REDACTED] | 2020/01/11 |

A red arrow points from the top right towards the '+' button in the 'Certificates' title bar. A red callout bubble contains the text: "We can create a new certificate for development or production".

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Now we will create a new certificate, please click on "+" button on top right of Certificates title.

The screenshot shows the 'Create a New Certificate' wizard on the 'Software' step. There are ten options listed, each with a radio button and a description. The 'Apple Distribution' option is selected and highlighted in red.

- Apple Development  
Sign development versions of your iOS, macOS, tvOS, and watchOS apps. For use in Xcode 11 or later.
- Apple Distribution This certificate we will use for apple store submission  
Sign your apps for submission to the App Store or for Ad Hoc distribution. For use with Xcode 11 or later.
- iOS App Development This certificate we will use for development phase testing  
Sign development versions of your iOS app.
- iOS Distribution (App Store and Ad Hoc) This certificate we will use for staging and internal testing  
Sign your iOS app for submission to the App Store or for Ad Hoc distribution.
- Mac Development  
Sign development versions of your Mac app.
- Mac App Distribution  
This certificate is used to code sign your app and configure a Distribution Provisioning Profile for submission to the Mac App Store.
- Mac Installer Distribution  
This certificate is used to sign your app's Installer Package for submission to the Mac App Store.
- Developer ID Installer  
This certificate is used to sign your app's Installer Package for distribution outside of the Mac App Store.
- Developer ID Application

[Continue](#)

[« All Certificates](#)

## Create a New Certificate

[Continue](#)

### Services

- iOS Apple Push Notification service SSL (Sandbox)** This certificate we will use for pushnotification sandbox certificate  
Establish connectivity between your notification server and the Apple Push Notification service sandbox environment to deliver remote notifications to your app. A separate certificate is required for each app you develop.
- macOS Apple Push Notification service SSL (Sandbox)** This certificate we will use for pushnotification production certificate  
Establish connectivity between your notification server and the Apple Push Notification service sandbox environment. A separate certificate is required for each app you develop.
- Apple Push Notification service SSL (Sandbox & Production)** This certificate we will use for pushnotification production certificate  
Establish connectivity between your notification server, the Apple Push Notification service sandbox, and production environments to deliver remote notifications to your app. When utilizing HTTP/2, the same certificate can be used to deliver app notifications, update ClockKit complication data, and alert background VoIP apps of incoming activity. A separate certificate is required for each app you distribute.
- macOS Apple Push Notification service SSL (Production)**  
Establish connectivity between your notification server and the Apple Push Notification service production environment. A separate certificate is required for each app you distribute.
- Pass Type ID Certificate**  
Sign and send updates to passes in Wallet.
- Website Push ID Certificate**  
Sign and send updates for Websites.
- WatchKit Services Certificate**  
Establish connectivity between your notification server, the Apple Push Notification service sandbox, and production environment to update ClockKit complication data. When utilizing HTTP/2, the same certificate can be used to deliver app notifications, update ClockKit complication data, and alert background VoIP apps of incoming activity. A separate certificate is required for each app you distribute.

Based on requirement we can select the certificate.

**For submitting the application in apple store we need Distribution certificate & Push Production certificate**

Please create both for Expo projects.

## Certificates, Identifiers & Profiles

[« All Certificates](#)

### Create a New Certificate

[Back](#)

[Continue](#)

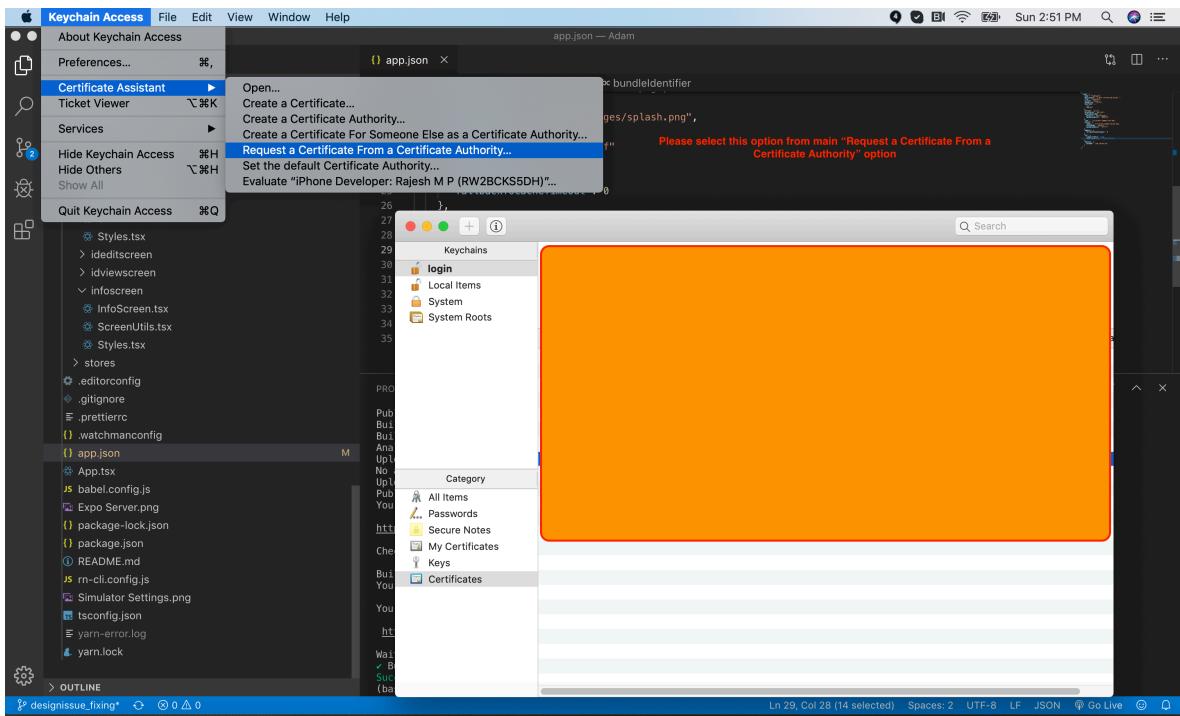
Upload a Certificate Signing Request  
To manually generate a Certificate, you need a Certificate Signing Request (CSR) file from your Mac.  
[Learn more >](#)

[Choose File](#)

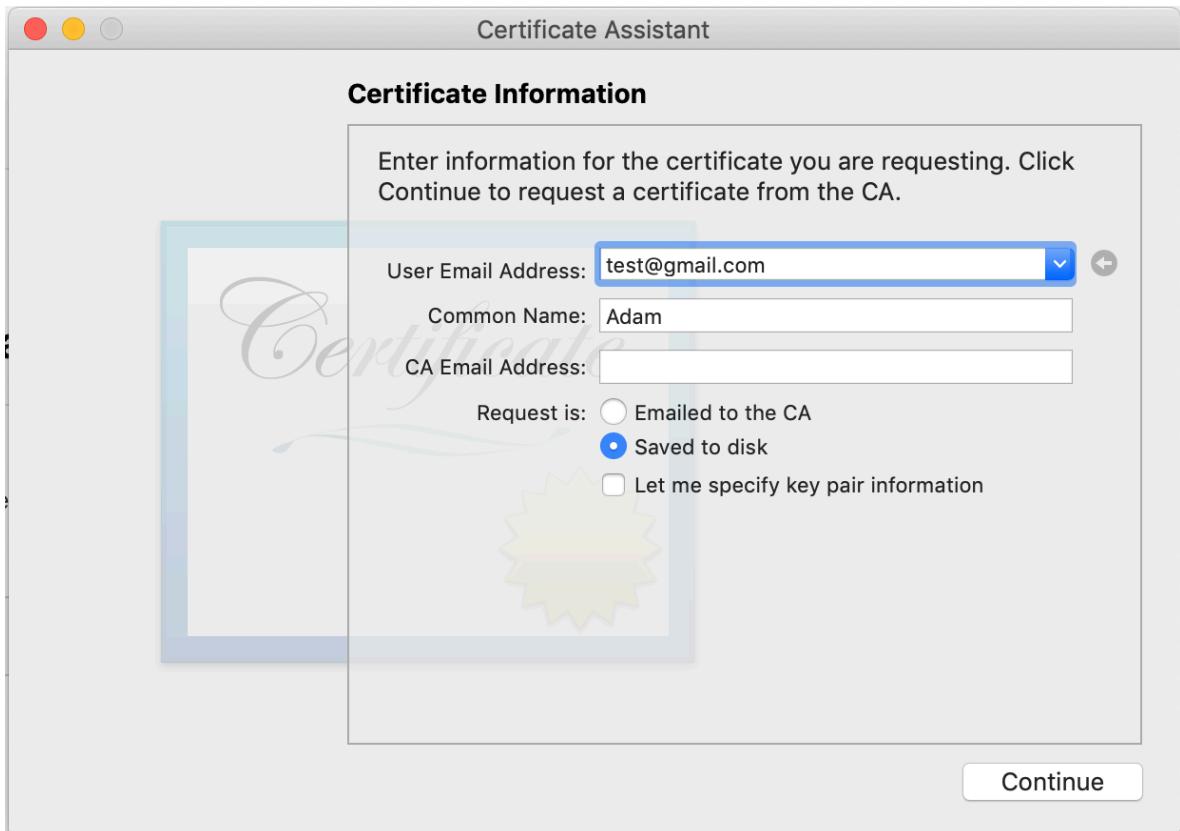
We need to create CSR file from MAC OS and upload here

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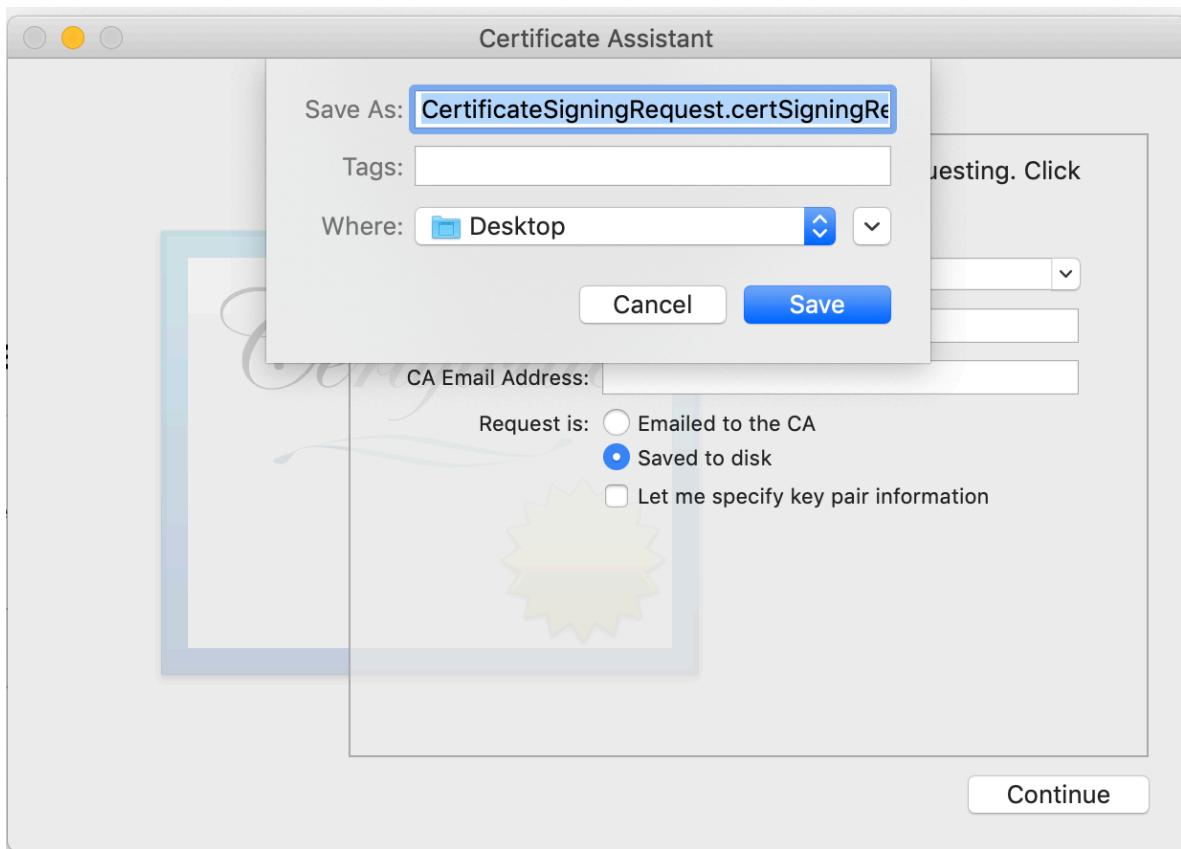
For Creating the CSR file, we need a Mac OS. Search “Keychain Access” application and open.



When we click on "Request a certificate..." option, navigate to this



After enter email and select saved to disk option and click on continue



This will download a new CSR file in our local system. This new CSR we need to upload in Apple developer account.

## Certificates, Identifiers & Profiles

[All Certificates](#)

### Create a New Certificate

Upload a Certificate Signing Request  
To manually generate a Certificate, you need a Certificate Signing Request (CSR) file from your Mac.  
[Learn more >](#)

[Choose File](#) CertificateSigningRequest.certSigningRequest No file chosen

[Back](#) [Continue](#)

## Certificates, Identifiers & Profiles

< All Certificates

### Download Your Certificate

Download the certificate [Download](#)

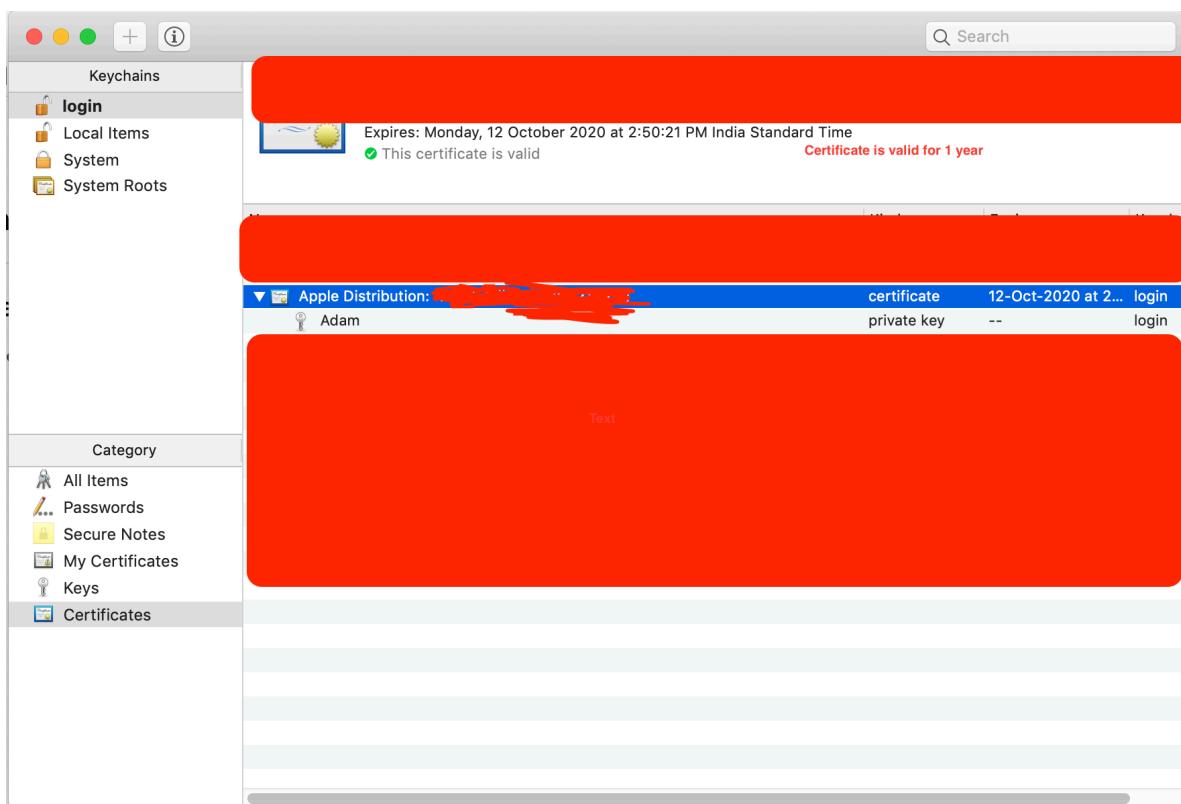
**Certificate Details**

|                                   |  |   |
|-----------------------------------|--|---|
| Certificate Name<br>Rajesh Pillai | Certificate Type<br>Distribution                     | Download your certificate to your Mac, then double click the .cer file to install in Keychain Access. Make sure to save a backup copy of your private and public keys somewhere secure. |
| Expiration Date<br>2020/10/12     | Created By<br>Rajesh Pillai (retheesh@rakshatpa.com) |   |

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After downloading the certificate we will get a .cer file in our local.

Please double click on the file , certificate will install in keychain access and verify the certificate.



We can export this certificate as p12 file from keychain, right click on the certificate select export option.

This will ask to save location , then enter a password to protect the certificate

and enter system password for export.

## For same method we can create "Push certificate " too

### 1.2 Apple ID: This we will use for application unique identifier in the app.

Please select identifiers from left side options

The screenshot shows the 'Identifiers' section of the Apple Developer portal. On the left, there's a sidebar with links: Certificates, Identifiers (which is selected and highlighted in grey), Devices, Profiles, Keys, and More. The main area has a heading 'Identifiers +' and a sub-instruction 'Please click on "+" button to create a new app id'. A large red rectangular box covers the central content area where new identifiers would be listed.

Click on plus button

### Certificates, Identifiers & Profiles

The screenshot shows the 'Register a New Identifier' form. At the top, there's a back-link '< All Identifiers' and a 'Continue' button. The title 'Register a New Identifier' is centered above a list of identifier types. Each type has a radio button and a brief description. The 'App IDs' option is selected (radio button is checked). Other options include 'Services IDs', 'Pass Type IDs', 'Website Push IDs', 'iCloud Containers', and 'App Groups'. A note at the bottom states: 'You must have an active App ID before you can register a Website Push ID or an iCloud Container.'

Select App ID and continue

## Certificates, Identifiers & Profiles

< All Identifiers

### Register an App ID

[Back](#) [Continue](#)

#### Platform

iOS, tvOS, watchOS  macOS

#### App ID Prefix

ZH7QYZR462 (Team ID)

#### Description

[App id description](#)

Test ID

enter app unique id here

Bundle ID  Explicit  Wildcard

com.test.id

We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (\*).

#### Capabilities

We can select capabilities from below option like Push Notification etc...

##### ENABLED NAME

 Access WiFi Information

 App Groups

 Apple Pay Payment Processing

## Certificates, Identifiers & Profiles

< All Identifiers

### Confirm your App ID

[Back](#) [Register](#)

#### Platform

iOS, tvOS, watchOS

#### App ID Prefix

ZH7QYZR462 (Team ID)

#### Description

Test ID

#### Bundle ID

com.test.id (explicit)

#### Capabilities

##### ENABLED NAME

 Access WiFi Information

 App Groups

 Apple Pay Payment Processing

 Associated Domains

When we click on register , new app id will register new app id will create and we can use the same in the application.

## Certificates, Identifiers & Profiles

Certificates

Identifiers

Devices

Profiles

Keys

More

### Identifiers +

 App IDs ▾

NAME ▾

IDENTIFIER

PLATFORM

Test ID

com.test.id123

This id we can use in our application bundle identifier

iOS

## 1.3 Create Profile

Click on Profile option in the left

### Certificates, Identifiers & Profiles

< All Profiles

#### Register a New Provisioning Profile

Continue

##### Development

- iOS App Development**  
Create a provisioning profile to install development apps on test devices.
- tvOS App Development**  
Create a provisioning profile to install development apps on tvOS test devices.
- macOS App Development**  
Create a provisioning profile to install development apps on test devices.

##### Distribution

- Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered devices.
- tvOS Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered tvOS devices.
- App Store**  
Create a distribution provisioning profile to submit your app to the App Store.
- tvOS App Store**

### Select App Store

- iOS App Development**  
Create a provisioning profile to install development apps on test devices.
- tvOS App Development**  
Create a provisioning profile to install development apps on tvOS test devices.
- macOS App Development**  
Create a provisioning profile to install development apps on test devices.

##### Distribution

- Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered devices.
- tvOS Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered tvOS devices.
- App Store**  
Create a distribution provisioning profile to submit your app to the App Store.
- tvOS App Store**  
Create a distribution provisioning profile to submit your tvOS app to the App Store.
- Mac App Store**  
Create a distribution provisioning profile to submit your app to the Mac App Store.
- Developer ID**  
Create a Developer ID provisioning profile to use Apple services with your Developer ID signed applications.

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Select app id from the list and continue

## Certificates, Identifiers & Profiles

< All Profiles

### Generate a Provisioning Profile

Back

Continue

Select Type > Configure > Generate > Download

#### Select an App ID

If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (\*) as the last digit in the Bundle ID field.

App ID:

Test ID (ZH7QYZR462.com.test.id123)

Select app id generated previously

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## Select certificate

## Certificates, Identifiers & Profiles

< All Profiles

### Generate a Provisioning Profile

Back

Continue

Select Type > Configure > Generate > Download

#### Select Certificates

Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.

Rajesh Pillai (iOS Distribution) Jan 11, 2020

Select certificate which we generated previously

Rajesh Pillai (Distribution) For use in Xcode 11 or later Oct 12, 2020

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## Enter profile name and click generate

## Certificates, Identifiers & Profiles

< All Profiles

### Generate a Provisioning Profile

Back

Generate

Select Type > Configure > Generate > Download

#### Review, Name and Generate.

The name you provide will be used to identify the profile in the portal.

##### Provisioning Profile Name

Sample Profile|

Give profile name

Type  
App Store

App ID  
Test ID(ZH7QYZR462.com.test.id123)

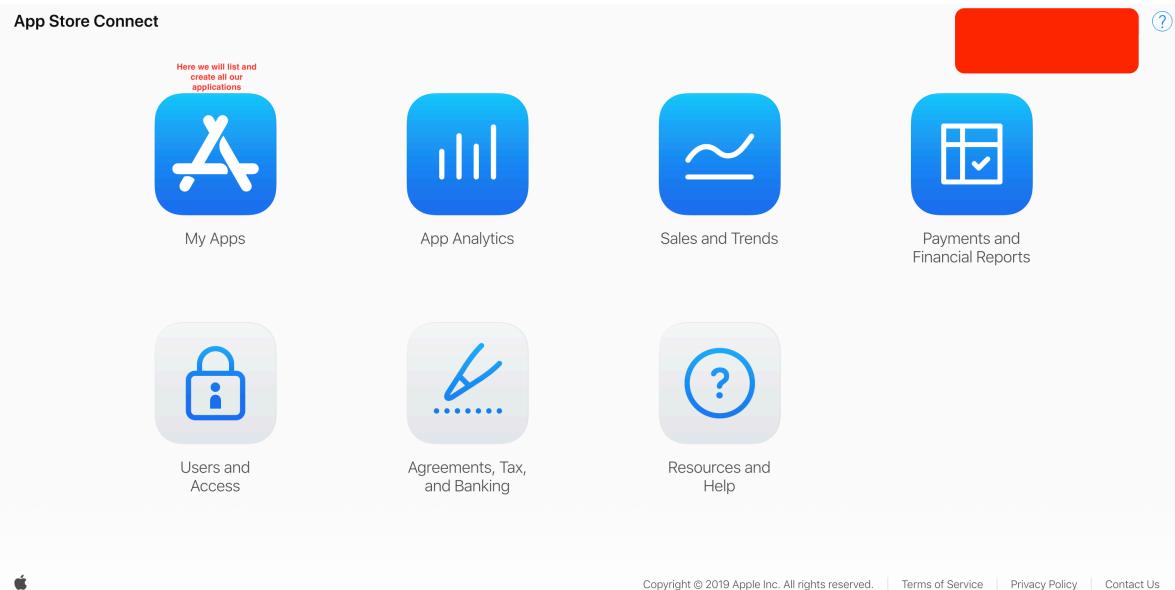
Certificates  
1 Selected

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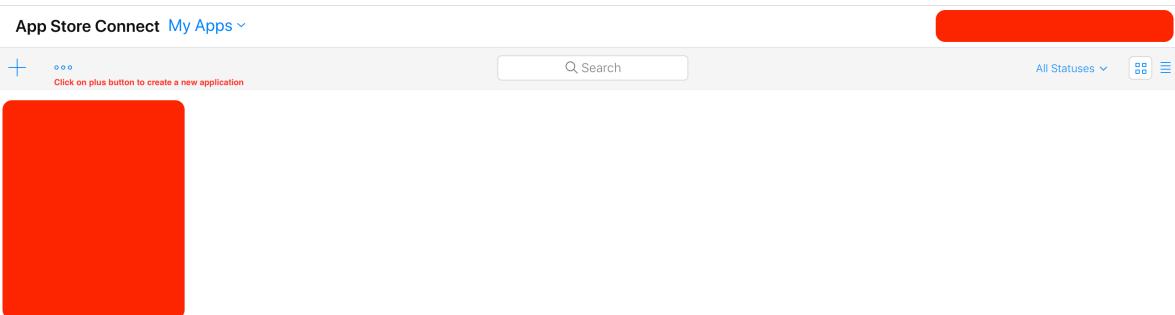
Download the profile file and keep in separate folder.

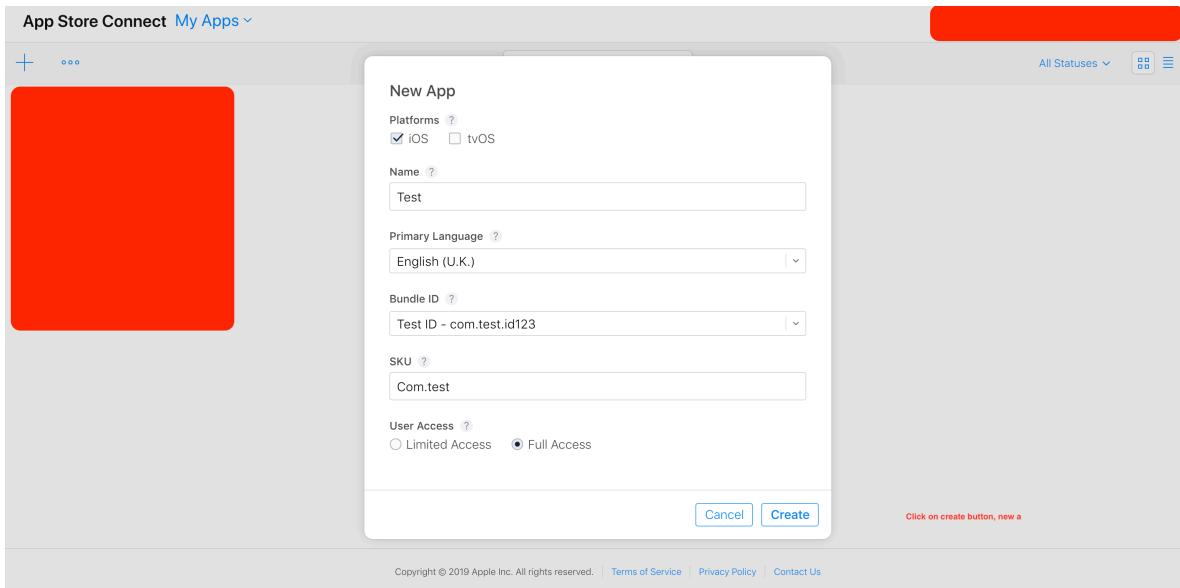
**iTunes Connect Account : <https://appstoreconnect.apple.com/>**

Please login to application, will navigate to like this

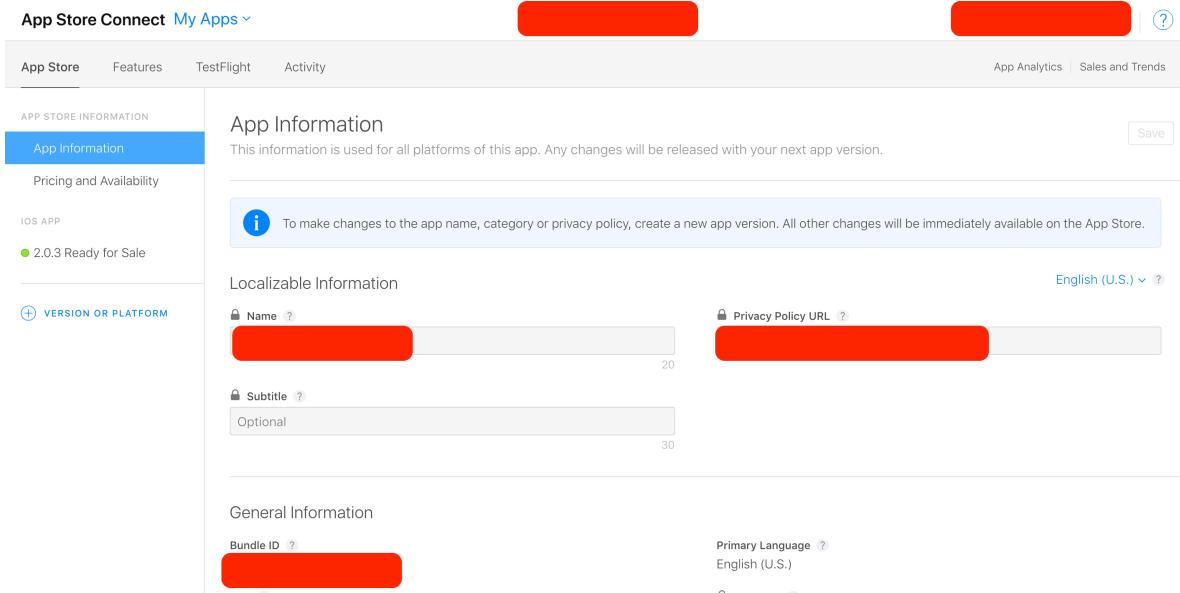


Select "My Apps" section





After creating the application, will display in app list. Please select that app.



We need to add some basic information in this screen.

Application privacy URL : Web url

Application category : app belong to which category, select option from the list

App Store Features TestFlight Activity App Analytics | Sales and Trends

APP STORE INFORMATION

App Information

Pricing and Availability

Save

IOS APP

● 2.0.3 Ready for Sale

VERSION OR PLATFORM

Price ? Start Date ? End Date ?

All Prices and Currencies

INR 0 (Free) Other Currencies Select app is free or paid. will decide here Oct 13, 2019 No End Date

Plan a Price Change

Availability

All territories selected Edit Remove from sale

Distribution for Business and Education

Available on the App Store, for volume purchasing on Apple Business Manager, and for volume purchasing at a reduced price on Apple School Manager

Available on the App Store and for volume purchasing on Apple Business Manager and Apple School Manager

Select “Version OR Platform” option, from here we can add a new application version. Select iOS option.

App Store Features TestFlight Activity App Analytics | Sales and Trends

APP STORE INFORMATION

App Information

Pricing and Availability

Save

IOS APP

● 2.0.3 Ready for Sale

VERSION OR PLATFORM

Price ? Start Date ? End Date ?

All Prices and Currencies

INR 0 (Free) Other Currencies Oct 13, 2019 No End Date

Plan a Price Change

Availability

All territories selected Edit Remove from sale

We need to give a version number here

The screenshot shows the 'Pricing and Availability' section of the App Store dashboard. On the left, there's a sidebar with 'App Store', 'Features', 'TestFlight', 'Activity', 'App Analytics', and 'Sales and Trends'. Under 'APP STORE INFORMATION', it says 'App Information' and 'Pricing and Availability' (which is selected). In the main area, there's a 'Price Schedule' table with one row: 'INR 0 (Free)'. Below it is a 'Plan a Price Change' button. A modal window titled 'New Version' is open, prompting for a 'Store Version Number' (with a placeholder '1.0'). At the bottom of the modal are 'Cancel' and 'Create' buttons. To the right of the modal, there are fields for 'Start Date' (set to '13, 2019') and 'End Date' (set to 'No End Date'). Below the modal, there's an 'Availability' section with a radio button for 'All territories selected' (selected) and another for 'Remove from sale'. At the bottom, there's a 'Distribution for Business and Education' section with two options: 'Available on the App Store, for volume purchasing on Apple Business Manager, and for volume purchasing at a reduced price on Apple School Manager' (selected) and 'Available on the App Store and for volume purchases on Apple Business Manager and Apple School Manager'.

After creating the version, details will display here

The screenshot shows the updated app details after creating a new version. The sidebar now shows 'App Store', 'Features', 'TestFlight', 'Activity', 'App Analytics', and 'Sales and Trends'. Under 'APP STORE INFORMATION', it says 'App Information' and 'Pricing and Availability' (which is selected). The main area shows the app's name as 'iOS App 2.0.3' and its status as 'Ready for Sale'. A note says 'here we will add application description, screenshots and all' with a 'Save' button. Below it is a 'Version Information' section with a 'What's New in This Version' field containing 'Chat enabled'. A language dropdown shows 'English (U.S.)'. Under 'App Previews and Screenshots', there are icons for iPhone 6.5" Display, iPhone 5.5" Display, iPad Pro (3rd Gen) 12.9" Display, iPad Pro (2nd Gen) 12.9" Display, and a link 'View All Sizes in Media Manager'. A large red rectangular box covers the bottom half of the screen.

Keywords : keyword for searching application in "insurance,"

Support URL : web url for support url

Description: Application description in will display in apple store

Screen shots we need to updated in here, will display here

General App Information : General info and address too

App Review Information : We need to app login information to test app while reviewing the code. Only required for login mandatory applications only.

## Create build for iOS

## Please make below changes in our source code

```
1 {  
2   "expo": {  
3     "name": "FreeKidsId",  
4     "description": "A very interesting project.",  
5     "slug": "freekidsid",  
6     "privacy": "public",  
7     "sdkVersion": "33.0.0",  
8     "platforms": [  
9       "ios",  
10      "android"  
11    ],  
12    "version": "1.0.0",  
13    "orientation": "portrait",  
14    "androidStatusBar": {  
15      "barStyle": "dark-content",  
16      "backgroundColor": "#00CCCC"  
17    },  
18    "icon": "./src/assets/images/icon.png",  
19    "splash": {  
20      "image": "./src/assets/images/splash.png",  
21      "resizeMode": "contain",  
22      "backgroundColor": "#ffffff"  
23    },  
24    "updates": {  
25      "fallbackToCacheTimeout": 0  
26    },  
27    "ios": {  
28      "supportsTablet": true,  
29      "bundleIdentifier": "com.yourcompany.yourappname"  
30    },  
31    "android": {  
32      "package": "com.yourcompany.yourappname"  
33    }  
34  }  
35 }
```

please update bundle identifier here

## Before build please setup expo account in CLI.

Please follow below steps

Please signup and login in Expo browser.

<https://expo.io>

We need to login in Expo with same user in CLI.

login ` ` ` expo login` ` `

logout ` ` ` expo logout` ` `

Reference Links: <https://docs.expo.io/versions/v35.0.0/workflow/expo-cli/>

## Navigate to project base folder and run ` ` ` expo build:ios` ` ` `

While creating a build in terminal , ask for apple login. Please login

Link created certificate & p12 file in to terminal.

after executing new build will generate and like this

Reference Link: <https://docs.expo.io/versions/latest/>

## distribution/building-standalone-apps/

The screenshot shows the VS Code interface with the Explorer, Editor, Problems, Output, and Terminal tabs. In the Editor tab, the file `app.json` is open, showing configuration for an iOS build. The terminal output shows the build process starting, including steps like 'Uploading assets' and 'Uploading JavaScript bundles'. A message in the terminal says 'Published Your URL is https://exp.host/@rajeshmp/freekidsid'. A callout bubble points to this URL with the text: 'After deploying the build, we will get build path in command terminal, please copy paste in browser'.

**After completing this build process, we will get build path from terminal output, please copy paste into browser. We will navigate to below page.**

<https://expo.io/builds/d23863b7-6cbd-4d32-9928-9b0f38dee529>

The screenshot shows the 'Build logs' page on expo.io. It displays a list of completed tasks for an iOS build, including 'creating keychain', 'importing certificate into keychain', 'icons setup', 'configuring NSBundle', 'reading manifest', 'configuring NSBundle', 'building and signing IPA', 'deleting keychain', and 'uploading to S3'. There are 'Download' and 'Cancel' buttons at the top right. A note at the bottom states: 'These are the raw build logs from Xcode / Android Studio. The meaning of particular messages may not be obvious to you if you do not have experience with these tools. If you need help interpreting an error, please post it along with any other relevant information to <https://forums.expo.io>'.

[Feedback?](#)

Click on download the application, the new app ".ipa" file will be downloaded.

## **How to upload .ipa to apple store**

Please refer below link to upload build to apple store

<https://docs.expo.io/versions/latest/distribution/uploading-apps/>