Lesson - 12

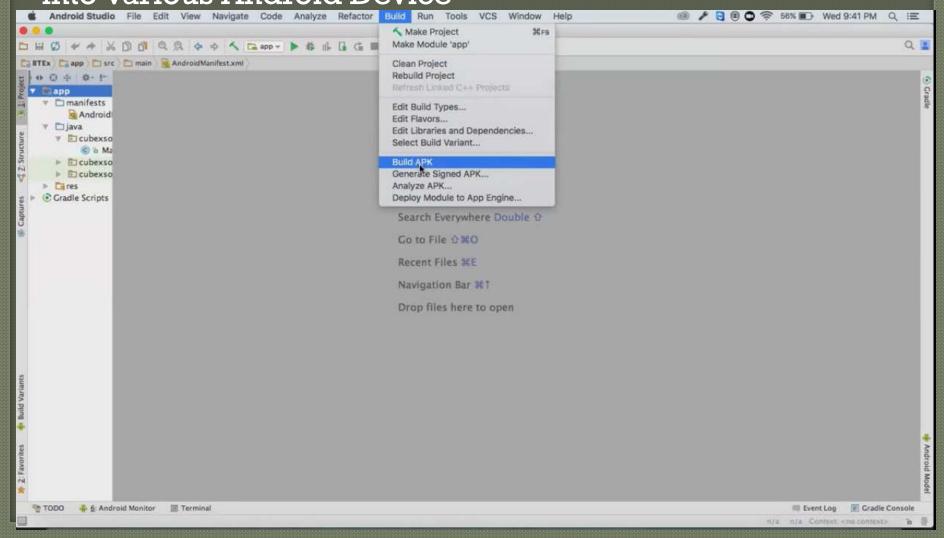
Publish APK

Publish .apk

- After you have created, and fully debugged, your application, you might want to deploy it to the Google Store for others to enjoy.
- Application Before uploading the application in Google Play Store(android market), the basic points to be noted are as follows:
 - Testing the application.
 - Checking the application performance.
 - SDK Compatibility.
 - Remove log data.
- Read: Before publishing to know the check list https://developer.android.com/distribute/bestpractices/launch/launch-checklist.html
- The following sections outline the steps for publishing your applications.

Build APK for Testing Purpose not for Deployment

Step 1 : Click Build → Build APK, will provide APK to test into various Android Device



Build APK for Testing Purpose not for Deployment

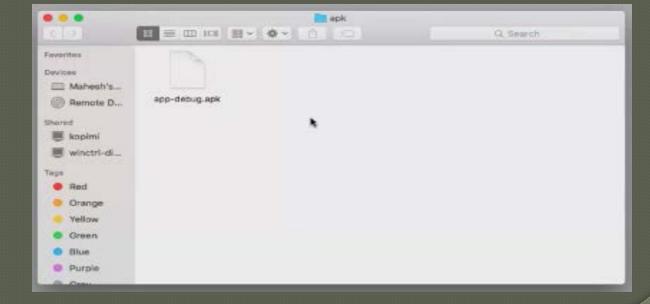
Step 2 : Once the APK is generated you will get this

message.



Step 3 : Click on Reveal in Folder to see the APK. Now you copy this file in any android device and test your

application.

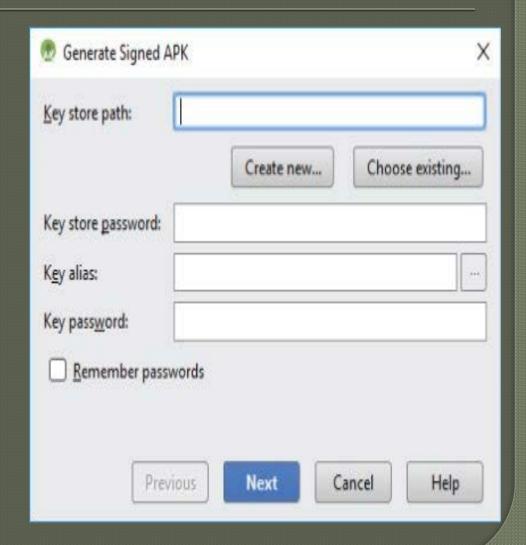


Generating a Signed APK

- To publish your finished application on the Google Play Store, you must generate a signed APK (the Android application package).
- APK is the compiled, executable version of your application.
- Signing it is much like signing your name to a document.
- The signature identifies the app's developer to Google and the users who install your application.
- More importantly, unless your Android Studio is in developer mode, unsigned applications will not run.

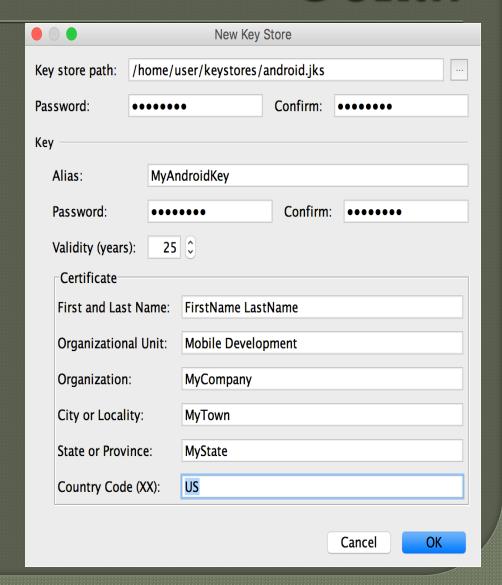
Generating a Signed APK steps

1. Generate a signed APK from your code by selecting Build Generate Signed APK from the Menu bar to bring up the Generate Signed APK window as shown here



- 2. Assuming you have never published an application from Android Studio, you need to create a new key store. Click the Create New button to display the New Key Store window.
- Signed APK provides two things.
 - a. Signed Key
 - b. APK file.
- The Key is very confidential, it will be useful in future to make any update.
- It should not be shared.
- Signed Key file is stored with the extension .jks(java key store)

- information on this form because it pertains to your entity and application.
 Notice that there are two places for a password. These are the passwords for your key store and your key, respectively. Use the same password in both the places.
- Click OK to return to the Generate Signed APK window.

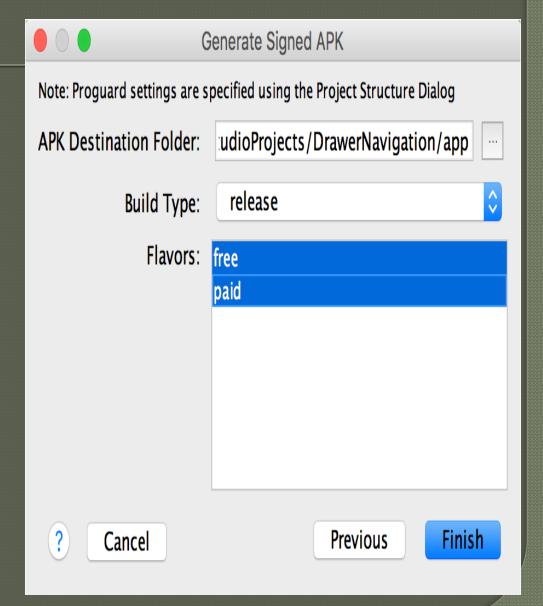


4. Click Next button

	Generate Signed APK	
Key store path:	/home/user/keystores/android.jks	
	Create new	Choose existing
Key store password:	•••••	
Key alias:	MyAndroidKey	
Key password:	•••••	
Remember passwords		
? Cancel		Previous Next

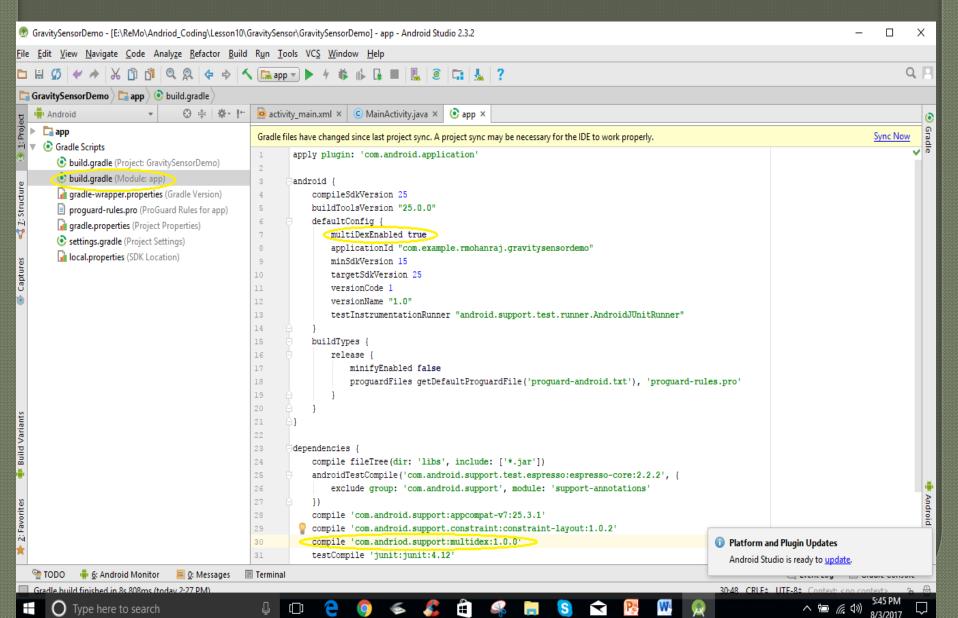
5. On the next window, select a destination for the signed APK(s), select the build type, (if applicable) choose the product flavor(s), and click Finish. 6. You will get, Click on this link to see the signed APK





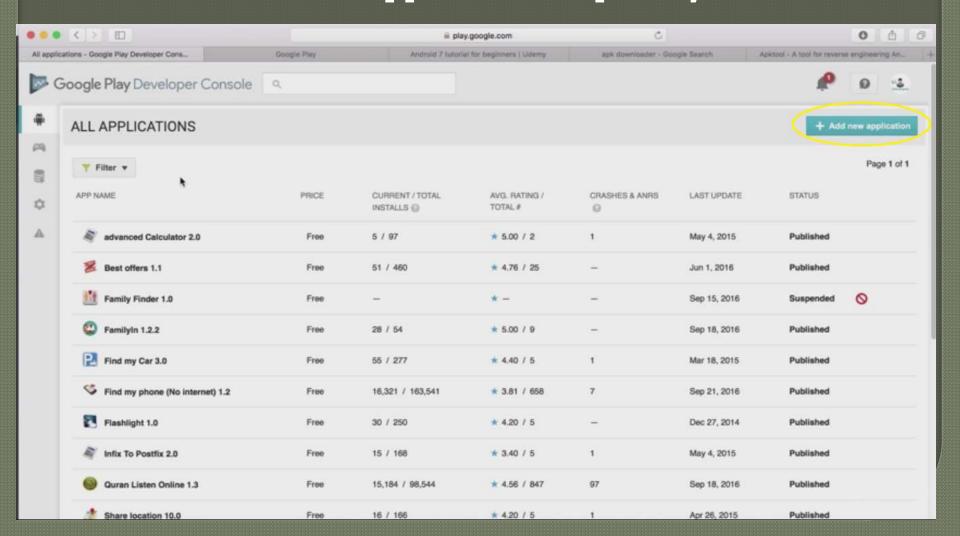
- Now that you have a signed APK, you can upload it to the Google Play Store using the developer console at https://play.google.com/apps/publish/
- Once you clicked on the link, need to sign in with your google account.
- You have to create a Play store account and pay some amount(\$25) for this account.
- You will get lifetime membership. You can upload N number of Apps.

If your application has more than 1000 lines of code add the highlighted part of code in your app before making signed APK.



Google Play Store uploading Steps

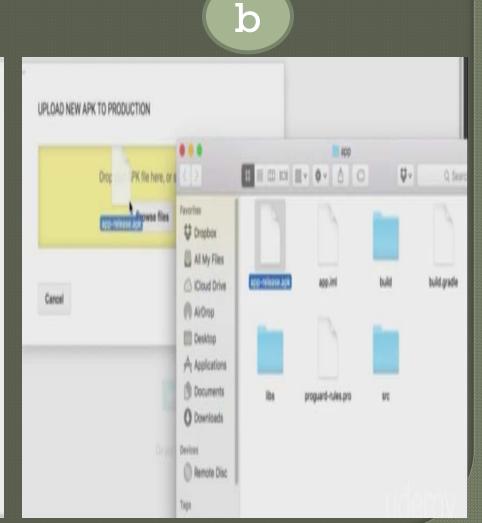
1. Click Add new Application to upload your APK file.



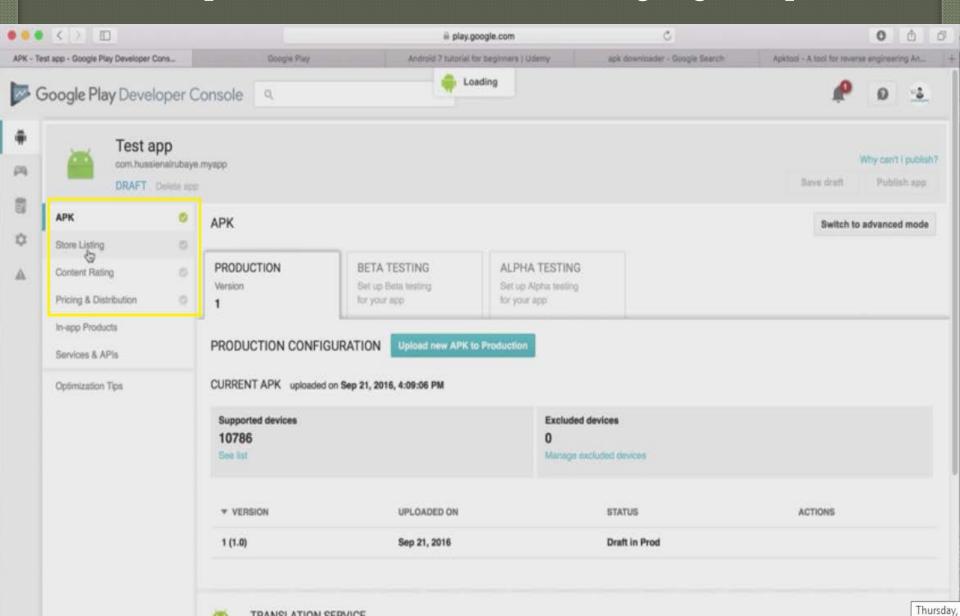
2. Click Upload APK and drag your APK to play store.

ADD NEW APPLICATION Default language * English (United States) - en-US \$ Title ' Test app 8 of 30 characters What would you like to start with? Prepare Store Listing Cancel

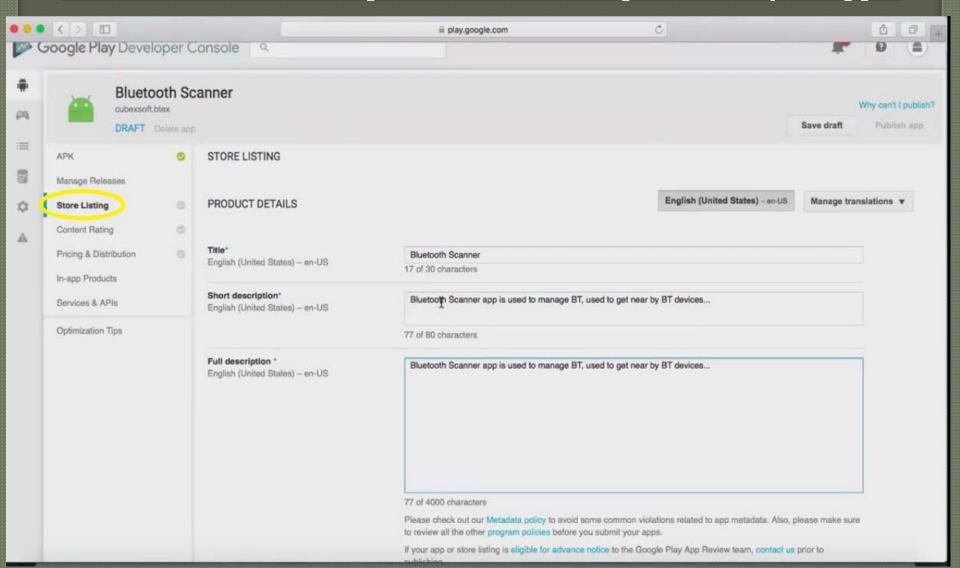
a



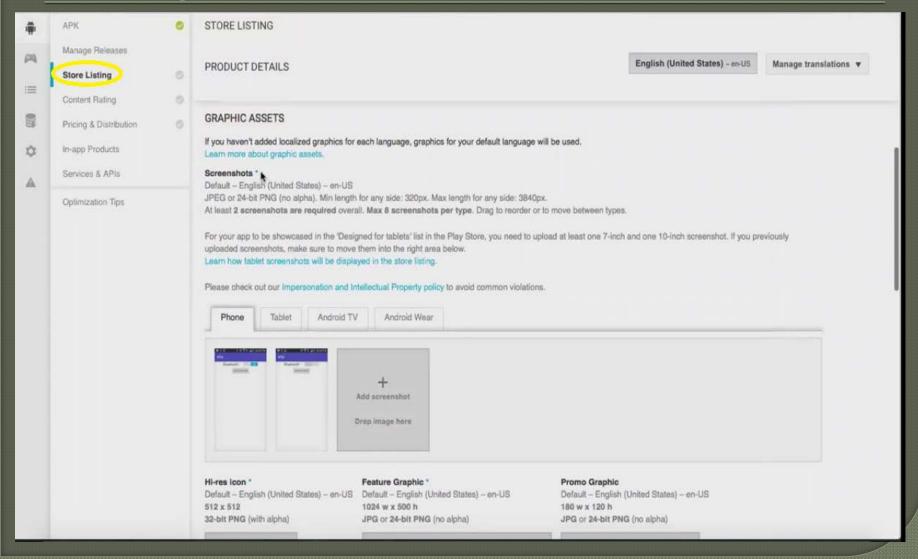
3. Finish the remaining steps in the order how it appeared and fill out the required information from the highlighted part.



Provide Title, Short Description and Full Description about your app.



Provide minimum of two screenshots of your app in the Graphic Assets is mandatory.



- The next step is to provide Hi-res-icon for your app with specified 512 x512 size. You can create an icon using falticon.com, then upload your icon.
- You should add
 Feature graphic with
 1024 w x 500 h size.
 Other sizes are not allowed.

Hi-res icon * Default - English (United States) - en-US 512 x 512 32-bit PNG (with alpha)

TV Banner Default – English (United States) – en-US 1280 w x 720 h JPG or 24-bit PNG (no alpha)



Feature Graphic *

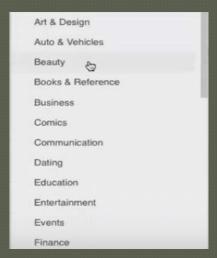
Default – English (United States) – en-US 4096 w x 4096 h JPG or 24-bit PNG (no alpha)

Choose your application
 type as

Applications

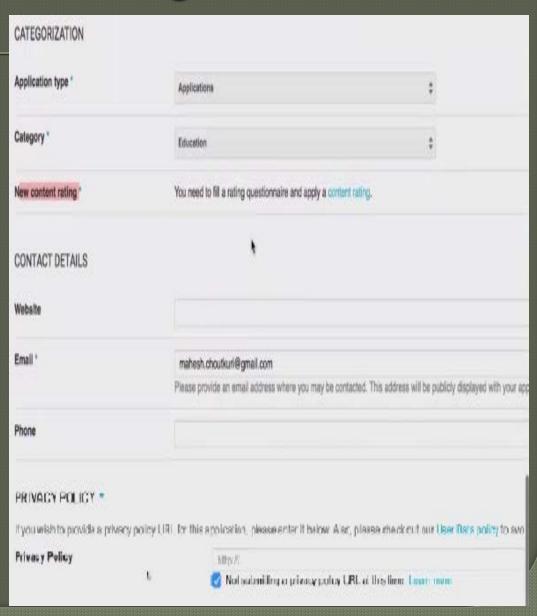
Games

 Choose the specific category from the list.

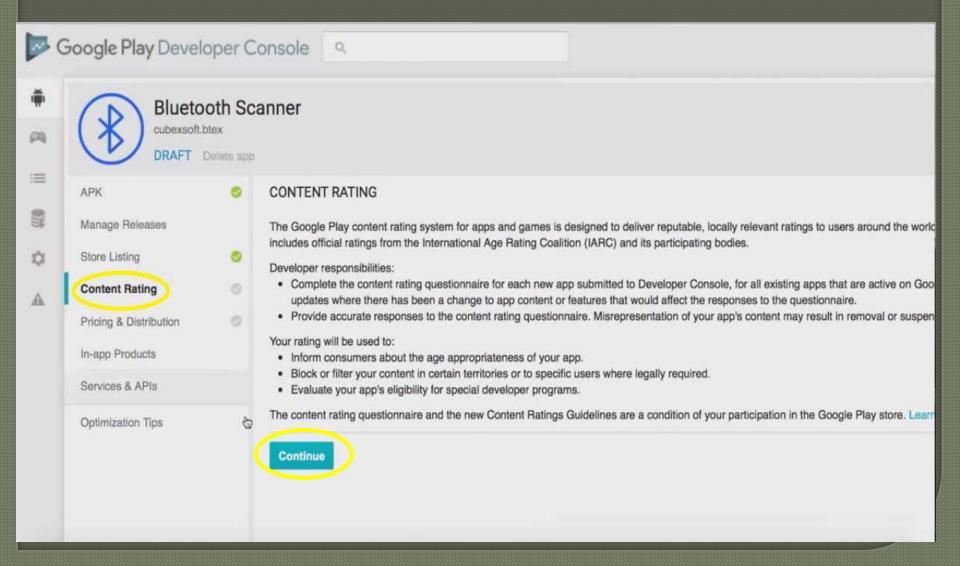


• After finishing all these steps click save draft in the top of the screen.

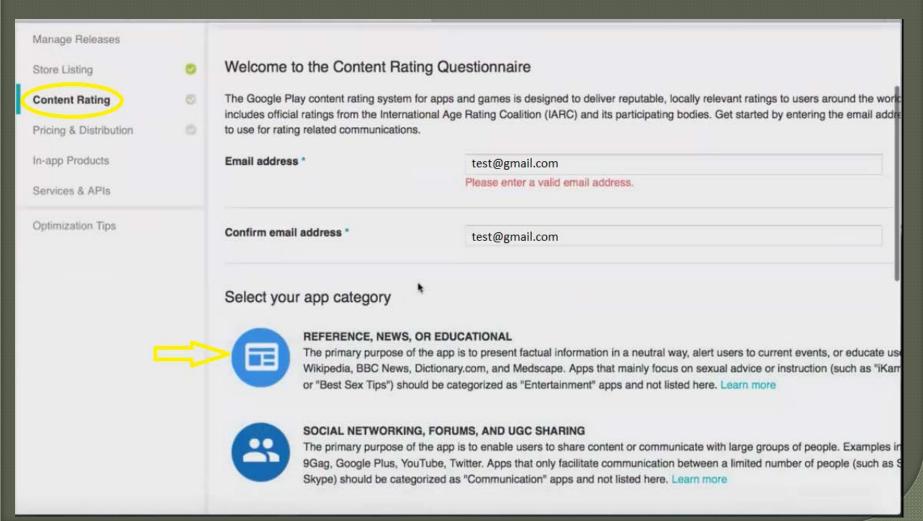
Save draft



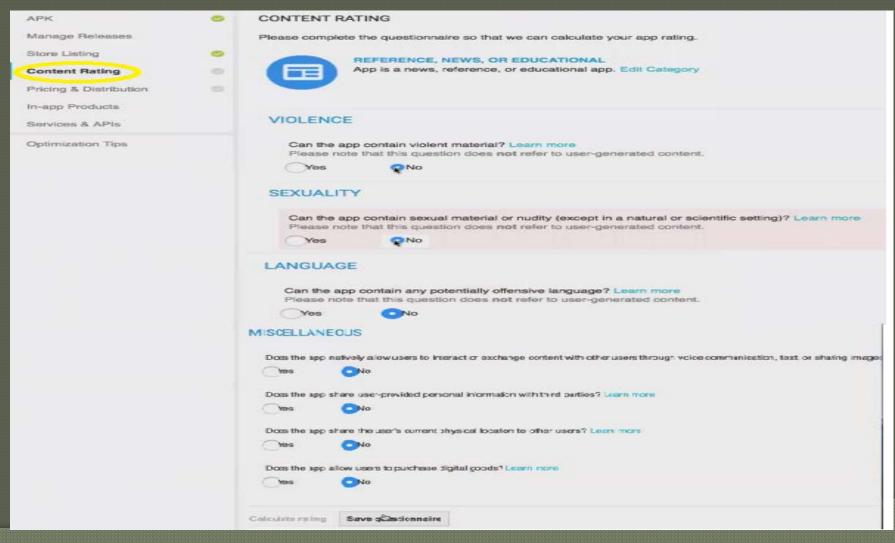
Your app's content rating level inform users of it's maturity level. Click on the Continue button.



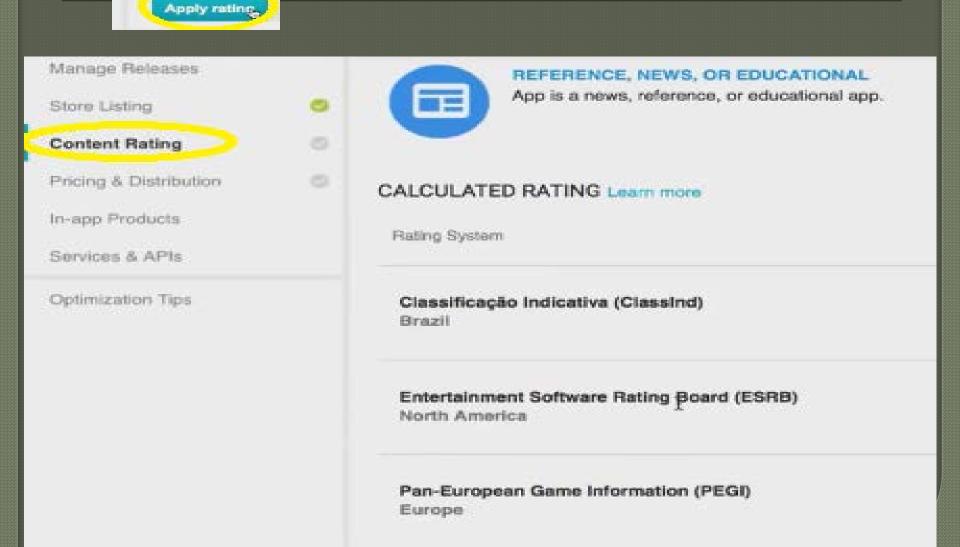
Fill out the Email address and Confirmation email address, then choose the category of your app. Once you choose the category you will get another screen.



Answer the questions appeared on the screen and click Save questionnaire button. Then click Calculate rating button, you will get next screen.



This screen give the information about different country rating. Finally click Apply rating button in the bottom of the screen.

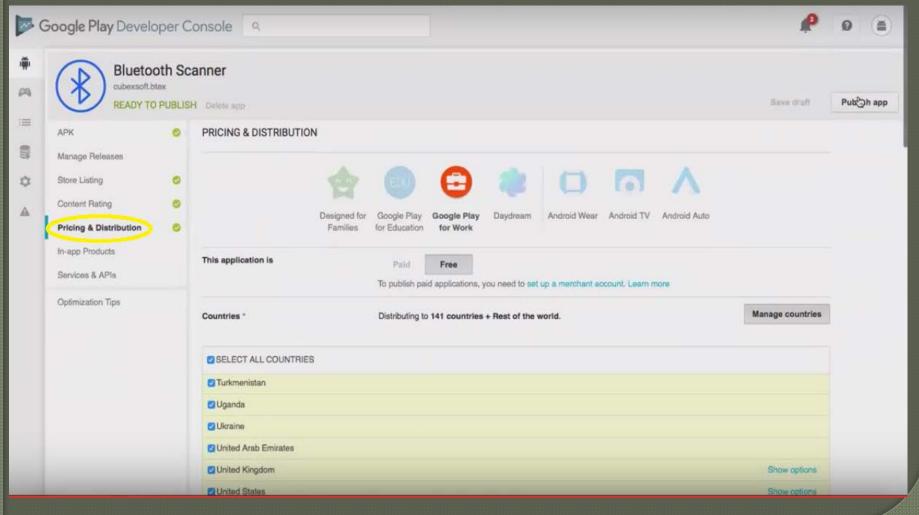


3.c. Pricing & Distribution

- You can publish your app as free to download or priced.
- Free apps can be downloaded by any Android user in Google Play.
- Priced apps can be downloaded only by users who are in a country that supports paid downloads and have registered a form of payment in Google Play, such as a credit card or Direct Carrier Billing.
- Priced apps can be changed to free at any time.
- If you do decide on a priced app or are selling in-app products, you'll need to setup a <u>Google payments</u> <u>merchant account</u> before you can publish.

3.c. Pricing & Distribution

Answer the Mandatory option and click Save draft button on the top. Then click Publish app. Your app will be uploaded in the Google Play Store. It will take few hours to update.



Update App

- To update the apps on the Play Store read this resource.
 - https://support.google.com/googleplay/answer/113412?hl=en