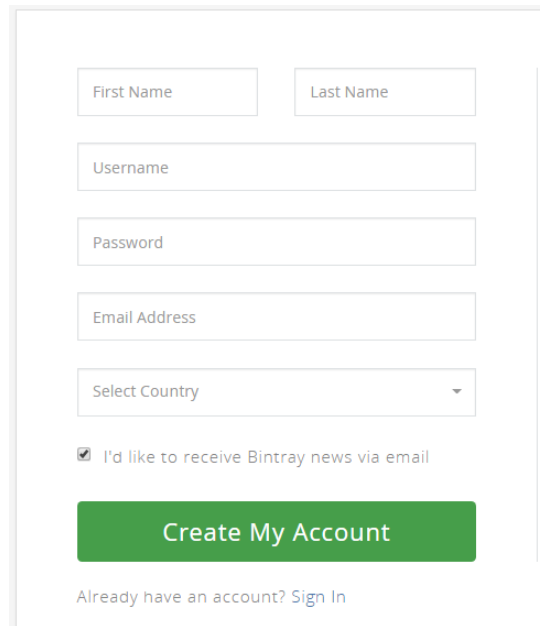# PUBLISHING AND UPDATING ANDROID LIBRARY TO JCENTER

A. LIBRARY PUBLISHING

I. Registry a Bintray account

1. Access to bintray.com and choose **Sign Up Here**

2. Fill out all mandatory fields and choose **Create My Account**

*Note: Please **don't** create account by click on **Start your free Trial** because you will get Trial Enterprise account – it cannot sync library to jCenter.*

3. Verify in registered email.

II. Create Repository storing library

1. Login bintray

2. Create a Maven Repository: Choose *Add New Repository*, fill Reposiroty Name, type **Maven**. Ex: *MyLibrary*. Choose **Create**.

Browser will go to created repository at the moment.

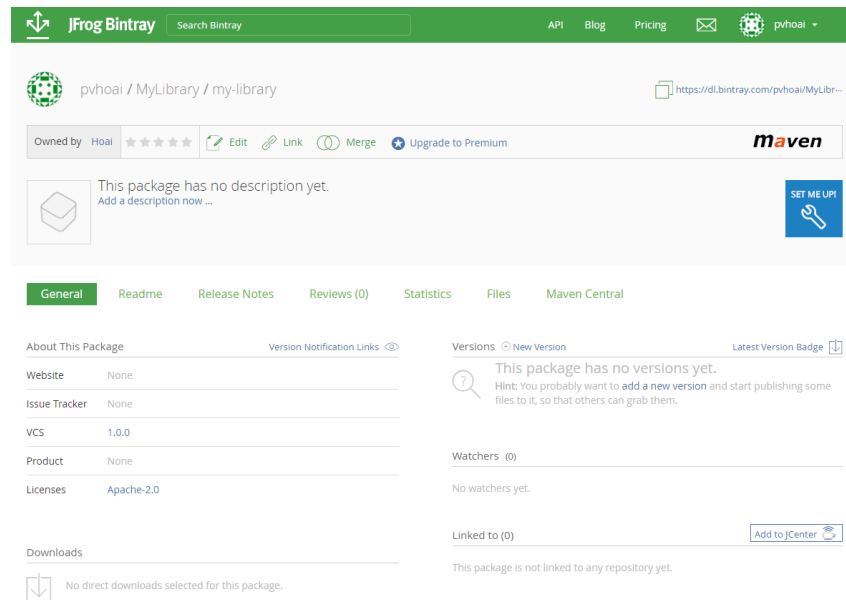3. In repo create a package: Choose *Add New Package*. Input mandatory fields:

- **Name**: Package Name storing library. Ex: *my-library*

- **License**: Ex: Apache 2.0,…

- **Version**: Library version. Set **1.0.0** in the first time publishing.

Choose *Create Package*

Go to created package:

III. Config in Android Studio

1. Open file ***build.gradle*** (module Project) add **dependencies** these lines:

   dependencies {

   classpath 'com.github.dcendents:android-maven-gradle-plugin:1.5'

   classpath 'com.jfrog.bintray.gradle:gradle-bintray-plugin:1.7.3'

   }

2. Go to ***Edit Profile*** in bintray to get **API Key**. Set in ***local.properties***:

```
bintray.user=BINTRAY_ACCOUNT
bintray.apikey=API_KEY
```

3. Add in ***build.gradle*** (module Library):

```
ext {
    bintrayRepo = 'MyLibrary'  // Repository name in bintray
    bintrayName = 'my-library' // Package name in Repository
    publishedGroupId = 'com.pvhoai'
    libraryName = 'MyDemoLibrary'
    artifact = 'mylibrary' // Library name

    libraryDescription = 'Library Description'
    libraryVersion = '1.0.0'
    developerId = 'developerId'
    developerName = 'developerName'
    developerEmail = 'developerMail@gmail.com'
}
```

Using library by adding:

```
compile '(publishedGroupId):(artifact):(libraryVersion)'
```

With abow configuration, we have:

```
compile 'com.pvhoai:mylibrary:1.0.0'
```

* Note:

- In case Repository was created inside an Organization (Ex id: ***hoaiphan***), we must config *bintrayOrganization:*

```
ext {
        bintrayRepo = 'MyLibrary'  // Repository name in bintray
        bintrayName = 'my-library' // Package name in Repository
        bintrayOrganization = 'hoaiphan'
        publishedGroupId = 'com.pvhoai'
        libraryName = 'MyDemoLibrary'
        artifact = 'mylibrary' // Library name

         libraryDescription = 'Library Description'
        libraryVersion = '1.0.0'
        developerId = 'developerId'
         developerName = 'developerName'
        developerEmail = 'developerMail@gmail.com'
}
```

- Add *userOrg* in **bintray.gradle**:

```
pkg {
    repo = bintrayRepo
    name = bintrayName
    userOrg = bintrayOrganization
    desc = libraryDescription
    publish = true
    publicDownloadNumbers = true
    version {
        desc = libraryDescription
    }
}
```

4. Finally, adding these codes in ***build.gradle*** (module Library) to get script:

```
apply from: 'install.gradle'
apply from: 'bintray.gradle'
```

5. Sync Project.

IV. Publishing

1. In Terminal, run:

```
gradlew install
```

2. After have message BUILD SUCCESSFUL, run:

```
gradlew bintrayUpload
```

V. Sync to jCenter

Now you can see that the version is uploaded.

To use library publicly, click **Add to Jcenter**. Click **Send**.

The library will be approved within 1-2 days.

B. LIBRARY UPDATING

After publishing success, if you want to update the library, just change library and run in Terminal:

```
gradlew bintrayUpload
```