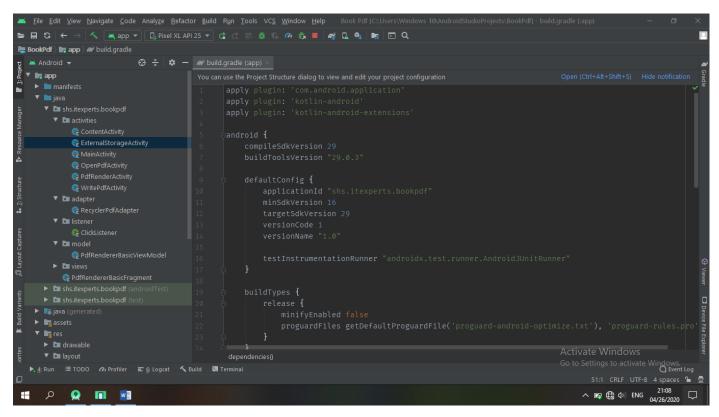
Androidda pdf fayllar ustida ishlash.

- 1.Loyihani yaratamiz.
- 2. Gradle ba'zi kutubxonalarni yuklab olamiz.
- 3. Ilovani code qismni boshlaymiz.



Build.gradle

```
apply plugin: 'com.android.application'
apply plugin: 'kotlin-android'
apply plugin: 'kotlin-android-extensions'
android {
  compileSdkVersion 29
  buildToolsVersion "29.0.3"
  defaultConfig {
    applicationId "shs.itexperts.bookpdf"
    minSdkVersion 16
    targetSdkVersion 29
    versionCode 1
     versionName "1.0"
     testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
  buildTypes {
    release {
       minifyEnabled false
       proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
```

```
kotlinOptions {
    jvmTarget = '1.8'
dependencies {
  implementation fileTree(dir: 'libs', include: ['*.jar'])
  implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlin version"
  implementation 'org.jetbrains.kotlinx:kotlinx-coroutines-android:1.3.3'
  implementation 'androidx.fragment:fragment-ktx:1.2.4'
  implementation 'androidx.appcompat:appcompat:1.1.0'
  implementation "androidx.lifecycle:lifecycle-viewmodel-ktx:2.2.0"
  implementation "androidx.lifecycle:lifecycle-livedata-ktx:2.2.0"
  androidTestImplementation 'androidx.arch.core:core-testing:2.1.0'
  implementation 'androidx.core:core-ktx:1.2.0'
  implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
  testImplementation 'junit:junit:4.12'
  androidTestImplementation 'androidx.test.ext:junit:1.1.1'
  androidTestImplementation 'androidx.test.espresso:espresso-core:3.2.0'
  implementation 'androidx.recyclerview:recyclerview:1.1.0'
  implementation 'com.itextpdf:itextg:5.5.10'
  // read pdf
  implementation 'com.github.barteksc:android-pdf-viewer:2.8.2'
  implementation 'com.google.android.material:material:1.1.0'
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</p>
 package="shs.itexperts.bookpdf">
 <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
 <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
 <application
    android:allowBackup="false"
    android:icon="@drawable/pdf_icon"
    android:label="@string/app_name"
    android:roundIcon="@drawable/pdf_icon"
    android:supportsRtl="true"
    android:theme="@style/AppTheme">
    <activity android:name=".activities.OpenPdfActivity"
      android:label="Open Pdf"/>
    <activity android:name=".activities.ExternalStorageActivity"
      android:label="Pdf List"/>
```

ContentActivity.kt

```
package shs.itexperts.bookpdf.activities
import android.Manifest
import android.content.Intent
import android.content.pm.PackageManager
import android.os.Bundle
import android.util.Log
import android.widget.Button
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.content.ContextCompat
import shs.itexperts.bookpdf.R
class ContentActivity : AppCompatActivity() {
  private lateinit var button: Button
  private lateinit var button1: Button
  private lateinit var button2: Button
  override fun onCreate(savedInstanceState: Bundle?) {
     super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_content)
    if (checkPermission()) {
       Toast.makeText(this, "Ruxsat berilgan", Toast.LENGTH_LONG).show()
     } else {
       requestPermission() // Code for permission
    button = findViewById(R.id.main)
     button1 = findViewById(R.id.main1)
     button2 = findViewById(R.id.main2)
    button.setOnClickListener {
       val intent = Intent(this@ContentActivity, MainActivity::class.java)
```

```
startActivity(intent)
  button1.setOnClickListener {
    val intent = Intent(
       ExternalStorageActivity::class.java
    startActivity(intent)
  button2.setOnClickListener {
    val intent = Intent(
       this@ContentActivity,
       WritePdfActivity::class.java
    startActivity(intent)
private fun checkPermission(): Boolean {
  val result = ContextCompat.checkSelfPermission(
    Manifest.permission.WRITE_EXTERNAL_STORAGE
  return result == PackageManager.PERMISSION_GRANTED
private fun requestPermission() {
  if (ActivityCompat.shouldShowRequestPermissionRationale(
       Manifest.permission.WRITE EXTERNAL STORAGE
  ) {
    Toast.makeText(
       this@ContentActivity,
       "Write External Storage permission allows us to do store images. Please allow this permission in App
       Toast.LENGTH_LONG
    ).show()
    ActivityCompat.requestPermissions(
       arrayOf(Manifest.permission.WRITE_EXTERNAL_STORAGE),
override fun onRequestPermissionsResult(
  requestCode: Int,
  permissions: Array<out String>,
  grantResults: IntArray
  super.onRequestPermissionsResult(requestCode, permissions, grantResults)
  when (requestCode) {
```

```
if (grantResults.isNotEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
    Log.e("value", "Permission Granted, Now you can use local drive .")
} else {
    Log.e("value", "Permission Denied, You cannot use local drive .")
}
}
}
```

WritePdfActivity.kt

```
package shs.itexperts.bookpdf.activities
import android.Manifest
import android.content.pm.PackageManager
import android.os.Build
import android.os.Bundle
import android.os.Environment
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import com.itextpdf.text.Document
import com.itextpdf.text.Paragraph
import com.itextpdf.text.pdf.PdfWriter
import shs.itexperts.bookpdf.R
import java.io.File
import java.io.FileOutputStream
import java.text.SimpleDateFormat
import java.util.*
class WritePdfActivity : AppCompatActivity() {
  private lateinit var mTextEt: EditText
  private lateinit var mSaveBtn: Button
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_write_pdf)
    mTextEt = findViewById(R.id.textEt)
    mSaveBtn = findViewById(R.id.saveBtn)
    mSaveBtn.setOnClickListener {
      if (Build.VERSION.SDK_INT > Build.VERSION_CODES.M) {
         //system OS >= Marshmallow(6.0), check if permission is enabled or not
         if (checkSelfPermission(Manifest.permission.WRITE_EXTERNAL_STORAGE) ==
           PackageManager. PERMISSION_DENIED
           val permissions =
             arrayOf(Manifest.permission.WRITE_EXTERNAL_STORAGE)
           requestPermissions(permissions, 1)
```

```
//permission already granted, call save pdf method
         savePdf()
    } else {
       savePdf()
  }
private fun savePdf() {
  val mDoc = Document()
  //pdf file name
  val mFileName: String = SimpleDateFormat(
    Locale.getDefault()
  ).format(System.currentTimeMillis())
  //pdf file path
  val file = File(Environment.getExternalStorageDirectory(), "Pdf App")
  if (!file.exists()){
    file.mkdirs()
  val mFilePath: String = file.path+ "/"+mFileName+".pdf"
    //create instance of PdfWriter class
    PdfWriter.getInstance(mDoc, FileOutputStream(mFilePath))
    //open the document for writing
    mDoc.open()
    val mText : String = mTextEt.text.toString()
    //add author of the document (optional)
    mDoc.addAuthor("Atif Pervaiz")
    mDoc.add(Paragraph(mText))
    //close the document
    mDoc.close()
    //show message that file is saved, it will show file name and file path too
    Toast.makeText(this, "$mFileName.pdf\nis saved to\n$mFilePath", Toast.LENGTH_SHORT)
       .show()
  } catch (e: Exception) {
    //if any thing goes wrong causing exception, get and show exception message
    Toast.makeText(this, e.message, Toast.LENGTH_SHORT).show()
override fun onRequestPermissionsResult(
  requestCode: Int.
  permissions: Array<out String>,
  grantResults: IntArray
```

ExternalStorageActivity.kt

```
package shs.itexperts.bookpdf.activities
import android.content.Intent
import android.os.Bundle
import android.os.Environment
import android.util.Log
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import shs.itexperts.bookpdf.R
import shs.itexperts.bookpdf.adapter.RecyclerPdfAdapter
import shs.itexperts.bookpdf.listener.ClickListener
import java.io.File
class ExternalStorageActivity : AppCompatActivity() {
  private val fileList = ArrayList<File>()
  private lateinit var rv : RecyclerView
  override fun onCreate(savedInstanceState: Bundle?) {
     super.onCreate(savedInstanceState)
     setContentView(R.layout.activity_external_storage)
    // Recycler View ni topib olamiz va unga layout beriladi
    rv = findViewById(R.id.rv_pdf)
     rv.setHasFixedSize(true)
    rv.layoutManager = LinearLayoutManager(this)
     val dir = File(Environment.getExternalStorageDirectory().absolutePath+"/Pdf App/")
     Log.d("absolutePath",dir.absolutePath)
    // searchDir() method orgali pdf fayllarni topib fileList ga ozlashtiramiz
     searchDir(dir)
    val adapter = RecyclerPdfAdapter(this,fileList)
    rv.adapter = adapter
    adapter.setOnItemClickListener(object : ClickListener {
       override fun onItemClickListener(position: Int) {
```

```
val intent = Intent(this@ExternalStorageActivity, OpenPdfActivity::class.java)
    intent.putExtra("pdf",fileList[position].absolutePath)
    startActivity(intent)
}

// xotira ichidagi ".pdf" ma'lumotlarni topadi.
private fun searchDir(dir: File) {
    val pdfPattern = ".pdf"
    val arrayOfFiles = dir.listFiles()
    if (arrayOfFiles != null) {
        for (i in arrayOfFiles.indices) {
            if (arrayOfFiles[i].isDirectory) {
                 searchDir(arrayOfFiles[i])
            } else {
                if (arrayOfFiles[i].name.endsWith(pdfPattern)) {
                  fileList.add(arrayOfFiles[i])
            }
        }
    }
}
```

OpenPdfActivity.kt

```
package shs.itexperts.bookpdf.activities
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Toast
import com.github.barteksc.pdfviewer.PDFView
import shs.itexperts.bookpdf.R
import java.io.File
class OpenPdfActivity : AppCompatActivity() {
  private lateinit var pdfView: PDFView
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_open_pdf)
    pdfView = findViewById(R.id.pdfOpen)
    val b = intent.extras
    val uriPath = b?.getString("pdf").toString()
    Toast.makeText(this,uriPath, Toast.LENGTH_LONG).show()
    val dir = File(uriPath)
```

```
// pdfView ga fayl adresi berilmoqda
pdfView.fromFile(dir).load()
}
```