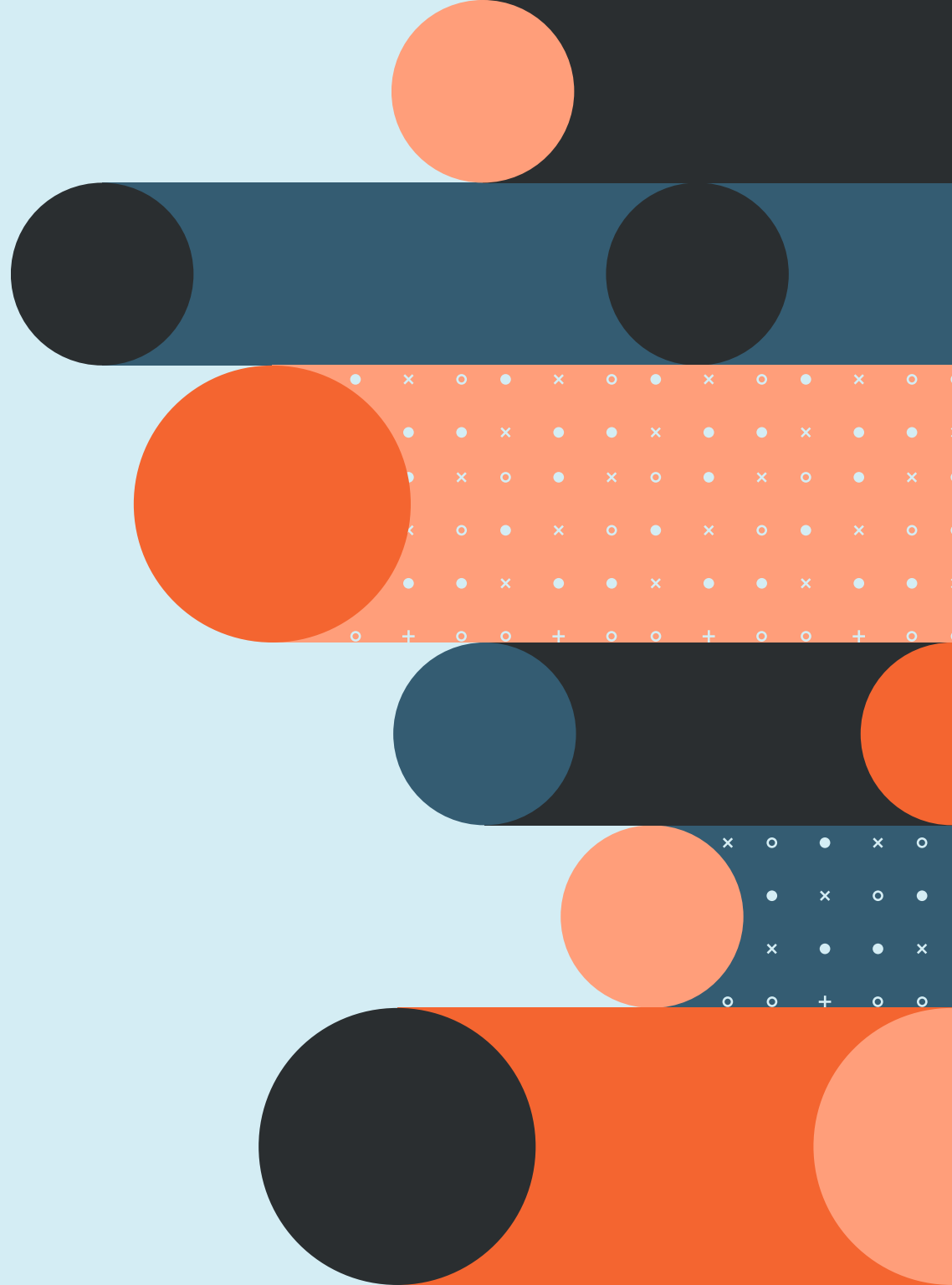


Mobile application development

THE PDF PRINT PACKAGE

Nada Ghwela



why this package ?

Android.print.pdf

This class is a helper for creating a PDF file for given print attributes. It is useful for implementing printing via the native Android graphics APIs.

This class computes the page width, page height, and content rectangle from the provided print attributes

these precomputed values can be accessed via `getPageWidth()`, `getPageHeight()`





Setting Android Studio Environment

I

create new project

2

add permission to write
EXTERNAL STORAGE

3

add permission to file
PROVIDER READER



Setting Android Studio Environment

4

Add Libraries:

1. `com.itextpdf:itext:5.5.10`
2. `com.karumi:dexter:6.2.3`

5

Create Android interface
make action on create PDF button

6

Add `common.java` file to get file path

7

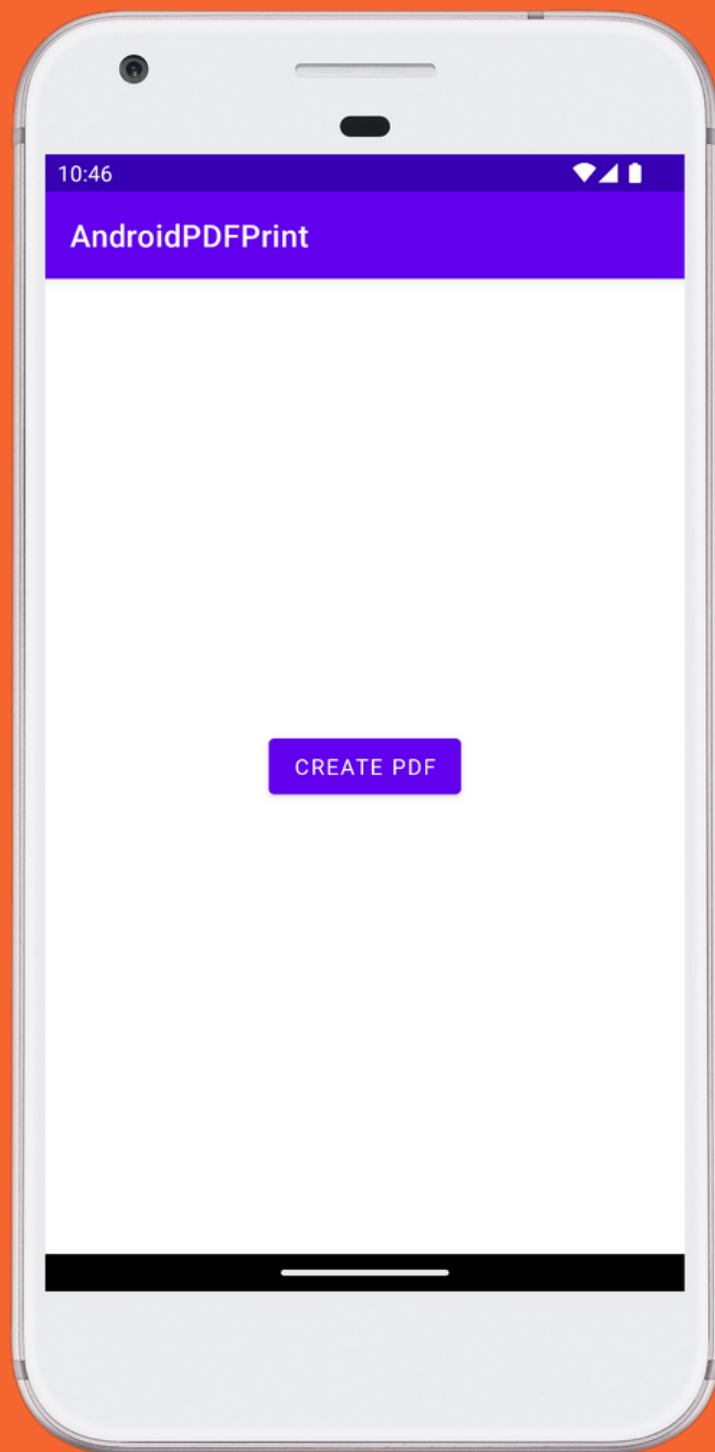
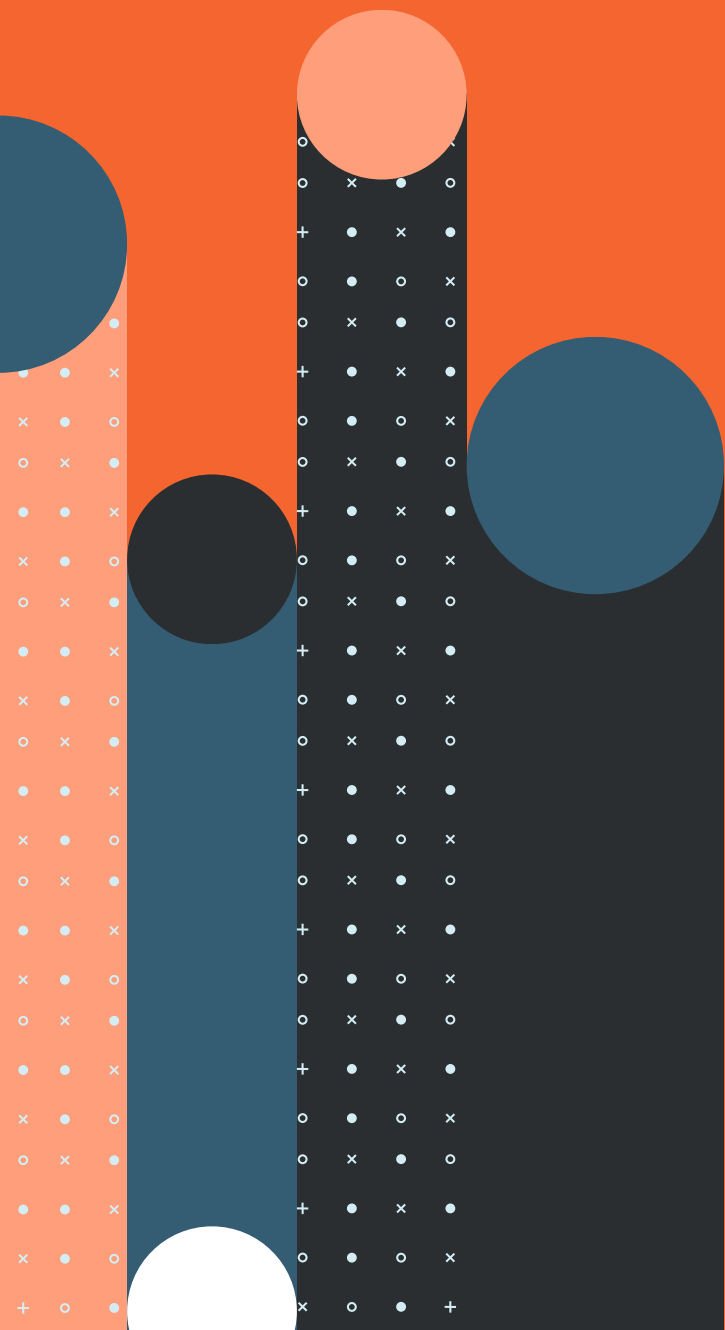
Set page size to A4 , add creation date
add Author name , open Doc , save PDF

Activity_ Main.XML file res/Layout folder

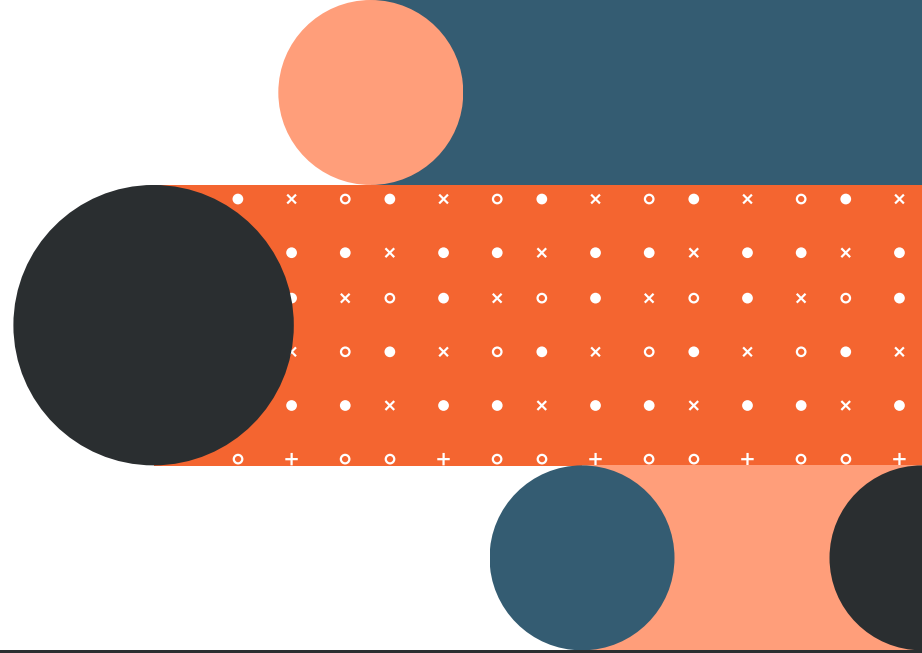
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/btn_create_pdf"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="@font/roboto"
        android:text="Create PDF"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```



Recreate office coffee runs



8

set font settings , change
text color ,add custom
font type if you need

9

add font folder in res to
upload font file

start add info to print

10

add PDFDocumentAdapter.java
to print the Doc

Main Activity.java file

```
private void createPDFFile(String path) {  
    String date = new SimpleDateFormat( pattern: "dd-MM-yyyy", Locale.getDefault()).format(new Date());  
    if(new File(path).exists())  
        new File(path).delete();  
    try {  
        Document document = new Document();  
        //Save  
        PdfWriter.getInstance(document,new FileOutputStream(path));  
        //open to write  
        document.open();  
        //Settings  
        document.setPageSize(PageSize.A4);  
        document.addCreationDate();  
        document.addAuthor("Hadil");  
        document.addCreator("Hadil Elbibas");  
  
        //Font Settings  
        BaseColor colorAccent = new BaseColor( red: 130, green: 120, blue: 204, alpha: 255);  
        float fontSizeHeader = 20.0f;  
        float fontSizeBody = 16.0f;  
        float valueFontSize = 26.0f;  
  
        //Custom font  
        BaseFont fontName = BaseFont.createFont( name: "res/font/roboto.ttf", encoding: "UTF-8",BaseFont.EMBEDDED);  
  
        //create title of document  
        Font titleFont = new Font(fontName, size: 20.0f,Font.NORMAL,BaseColor.BLACK);  
        addNewItem(document, text: "Class Grade List", Element.ALIGN_CENTER,titleFont);  
  
        // Add more  
        Font studentIdFont = new Font(fontName,fontSizeHeader,Font.NORMAL,colorAccent);  
        addNewItem(document, text: "Student ID", Element.ALIGN_LEFT,studentIdFont);  
    }  
}
```



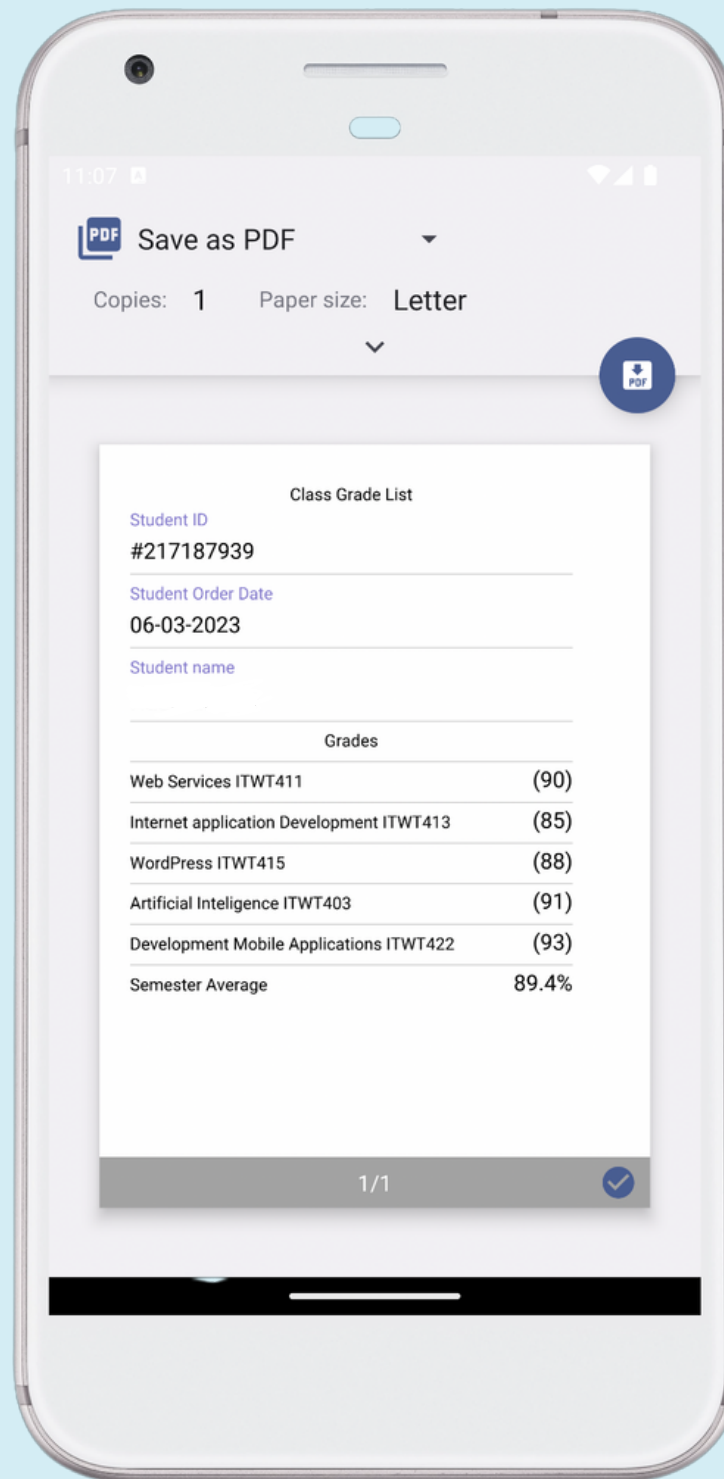
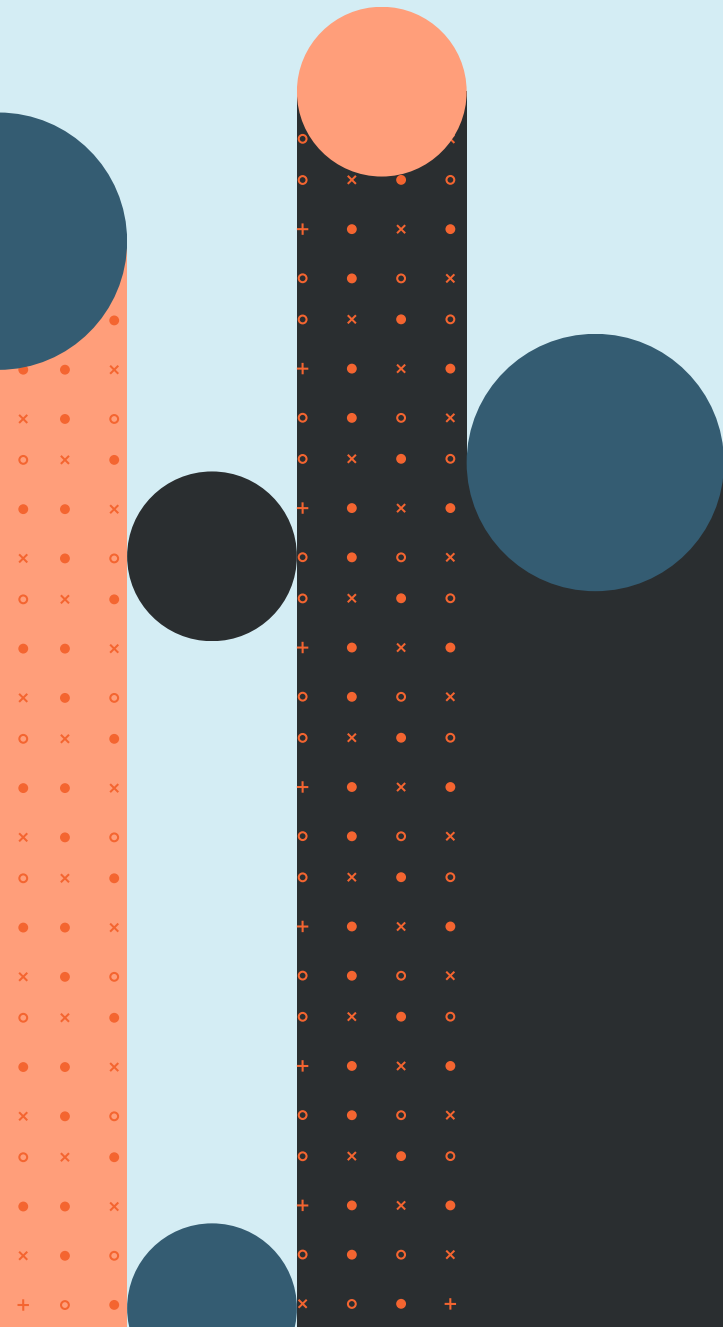

Testing Project

I

After adding all java code and XML interface
now build and run the project

2

Open Emulator and run the project





THANKS FO WATCHING

Nada Ghwla
PDF.PRINT