An Android Application for Keeping Up with the Latest Headlines

ABSTRACT:

As world's technology is rapidly growing we has fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facilities. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way

With this application phones will touch the base with people via images and headlines. It is very simple to use and easy to install that can be downloaded directly. In today's busy routine life, the users of this mobile news application will be just a click away to access all the basic current affairs in today's day to day routine of the society.

The source code has been used to develop variants of Android on a range of other electronics, such as game consoles, digital cameras, portable media players, and PCs, each with a specialized user interface..

INTRODUCTION :

Android is a mobile operating system based on a modified version of the Linux kernel and other open-source software, designed primarily for touchscreen mobile devices such as smartphones and tablets. Android is developed by a consortium of developers known as the Open Handset Alliance, though its most widely used version is primarily developed by Google. It was unveiled in November 2007, with the first commercial Android device, the HTC Dream, being launched in September 2008

At its core, the operating system is known as Android Open Source Project (AOSP) and is free and open-source software (FOSS) primarily licensed under the Apache License. However most devices run on the proprietary Android version developed by Google, which ship with additional proprietary closed-source software pre-installed most notably Google Mobile Services (GMS) which includes core apps such as Google Chrome, the digital distribution platform Google Play, and the associated Google Play Services development platform. Firebase Cloud Messaging is used for push notifications. While AOSP is free, the "Android" name and logo are trademarks of Google, which imposes standards to restrict the use of Android branding by "uncertified" devices outside their ecosystem

Android provides simple application structure and requires Java and Mark-up languages knowledge to work with. Such as, an discrete movement delivers a solitary screen for a user interface and a service whole completes work in the contextual. We can work on different module separately and can combine at the end, we can also add future modules easily afterwards.

API (Application Programming Interface) which is an intermediate interface between different applications. It provides automation, immediacy, adaption and personalization. This app is a news application. This application will show the news about the world. This is better than old conventional newspapers as you can see news anytime and anywhere now. This will also have live updates. This app will have some other features like adding your own news as an editor and people can see your published news too.

PROJECT MODULES

1. Login page
2. Register page
3. Main News Headlines Page
4. Display news page

LOGIN PAGE:

A login application is the screen asking your credentials to login to some particular application. You might have seen it when logging into twitter.

REGISTER PAGE:

In this article, we will take a look at adding a User Registration form in Android App so that users can register themselves in the app.

MAIN NEWS HEADLINES PAGE:

This app is a news application. This application will show the news about the world. This is better than old conventional newspapers as you can see news anytime and anywhere now. This will also have live updates.

DISPLAY NEWS PAGE:

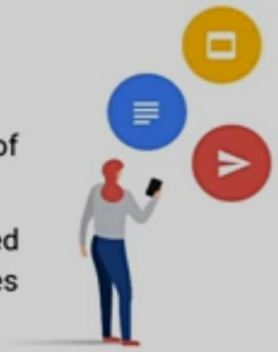
This app will have some other features like adding your own news as an editor and people can see your published news too.Users can see the articles published by other users.

CODING:

```
ViewPagerviewPager= findViewById(R.id.fragmentcontainer);
tabLayout = findViewById(R.id.include);

pagerAdapter=new PagerAdapter(getSupportFragmentManager(),6);
viewPager.setAdapter(pagerAdapter);

tabLayout.addOnTabSelectedListener(new TabLayout.OnTabSelectedListener() {
   @Override
   public void
onTabSelected(TabLayout.Tab tab) {
       viewPager.setCurrentItem(tab.getPosition());
       Uif (tab.getPosition()==0
 || tab.getPosition() == 1
|| tab.getPosition()==2
|| tab.getPosition() == 3
|| tab.getPosition()==4
|| tab.getPosition() == 5 ){
           pagerAdapter.notifyDataSetChanged();
       }
   }

   @Override
   public void onTabUnselected(TabLayout.Tab tab) {

   }

   @Override
   public void onTabReselected(TabLayout.Tab tab) {
   }
});
```

The opportunity

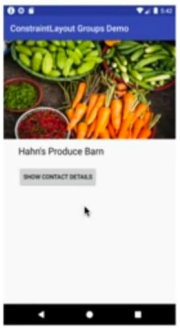
- Mobile devices are becoming increasingly commonplace
- Mobile apps connect users to information and services that can improve their quality of life
- Many industries have yet to be revolutionized through mobile, and offer great opportunities for new businesses and solutions



Smart Internz

Groups

- Control the visibility of a set of widgets
- Group visibility can be toggled in code



Smart Internz

Android devices

- Android devices come in many different form factors.
- More and more pixels per inch are being packed into device screens.
- Developers need the ability to specify layout dimensions that are consistent across devices.

Smart Internz

Screen-density buckets

Density qualifier	Description	DPI estimate
ldpi (mostly unused)	Low density	~120dpi
mdpi (baseline density)	Medium density	~160dpi
hdpi	High density	~240dpi
xhdpi	Extra-high density	~320dpi
xxhdpi	Extra-extra-high density	~480dpi
xxxhdpi	Extra-extra-extra-high density	~640dpi

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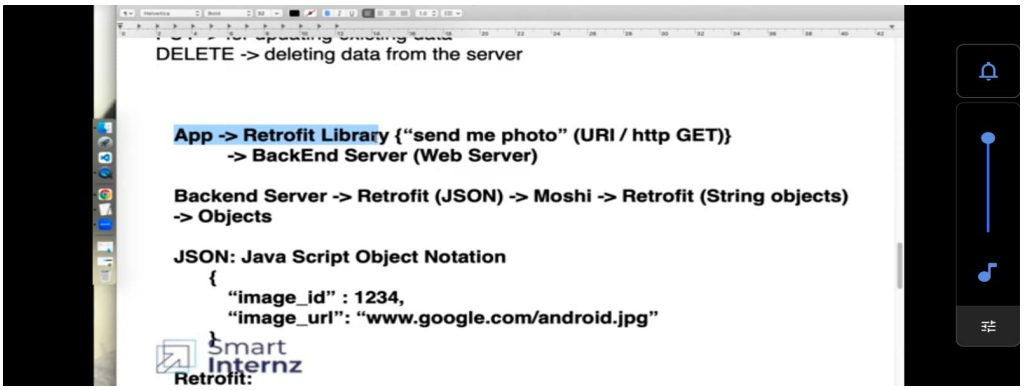


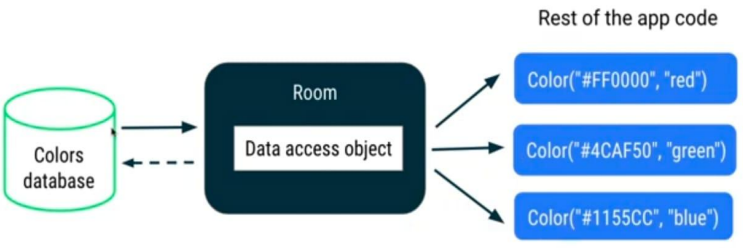
Data access object (DAO)

Work with DAO classes instead of accessing database directly:

- Define database interactions in the DAO.
- Declare DAO as an interface or abstract class.
- Room creates DAO implementation at compile time.
- Room verifies all of your DAO queries at compile-time.

Smart Internz

Room


Rest of the app code
Colors database
Room
Data access object
Color("#FF0000", "red")
Color("#4CAF50", "green")
Color("#1155CC", "blue")

CONCLUSION:

This article helps you understand how the public news app works. This will give you a basic idea of how to build a basic public news app. You can also add even more features to this like saving news, sharing the news, adding more features for publishers, etc. Android is truly open free development platform based on Linux and open source. Handset makers can use and customize without paying a royalty. A component based architecture inspired by internet mashups. Part of one application can be used in another ways not originally envisioned by the developer. We can replace built in component with own improved versions. This will unleash a new level of creativity in developing a news headlines.