

Adding admob to android app

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ListTileNativeAdFactory: NSObject @end #endif /* ListTileNativeAdFactory.h */ Create an Objective-C file by choosing New File in the Runner group and select Empty File as the file type. When you click Next, you will be asked to select a folder to create the new file. Leave everything as it is and click Create. Implement the ListTileNativeAdFactory class as follows. Note that the FLTNativeAdFactory class implements the createNativeAd() method in the protocol. The factory class is responsible for creating a view object to display native ads. As you can see from the code, the factory class creates a GADNativeAdView object and populates it with a GADNativeAd object. ListTileNativeAdFactory.m // TODO: Import ListTileNativeAdFactory.h #import "ListTileNativeAdFactory.h" #import "ListTileNativeAdFactory.h" // TODO: ListTileNativeAdFactory implementation @implementation ListTileNativeAdFactory - (GADNativeAdView *)createNativeAdactory(CreateNativeAdactory) *nativeAd customOptions:(NSDictionary *)customAdFactory = [[NSBundle mainBundle] loadNibNamed:@"ListTileNativeAdView" owner:nil options:nil firstObject; ((UILabel *)nativeAdView.headlineView).text = nativeAd.headline; ((UILabel *)nativeAdView.bodyView).text = nativeAd.body; nativeAdView.bodyView.hidden = nativeAd.body? NOT THAT; ((UIImageView *)nativeAdView.iconView).image = nativeAd.icon.image; nativeAdView.iconView.hidden = nativeAdView.icon? NOT THAT; nativeAdView.callToActionView.userInteractionEnabled = NO; nativeAdvertising.nativeAdvertising = nativeAdvertising; reciprocal local advertising; } @end Register the ListTileNativeAdFactory class so that the FLTNativeAdFactory implementation needs to be registered with the FLTGoogleMobileAdsPlugin to be used on the Flutter side. Open the AppDelegate.m file and register the ListTileNativeAdFactory with a unique string identifier (listTile) by calling the [FLTGoogleMobileAdsPlugin registerNativeAdFactory] method. AppDelegate.m #import "AppDelegate.h" #import "GeneratedPluginRegistrant.h" // TODO: Import ListTileNativeAdFactory.h #import "ListTileNativeAdFactory.h" @implementation AppDelegate - (BOOL) application:(UIApplication *)launchWithOptions:(NSDictionary *)launchOptions { [GeneratedPluginRegistrant registerWithRegistry:self]; // TODO: Register ListTileNativeAdFactory ListTileNativeAdFactory *listTileFactory = [[ListTileNativeAdFactory alloc] init]; [FLTGoogleMobileAdsPlugin registerNativeAdFactory:self factoryId:@"listTile" nativeAdFactory:listTileFactory]; // Overrides the customization point when the application starts. return [super app: didFinishLaunchingWithOptions:launchOptions app]; } @end You can now render native ads on iOS using ListTileNativeAdFactory, NativeAdFactory implementation for iOS (Swift) Open the ios/Podfile (or any file in the ios folder) and click Open iOS Module in Xcode to open the iOS project. Preparing a native ad layout To layout a native ad asset, you need a custom display (*.xib). This code lab uses a predefined view to minimize effort. Note: For more information on creating a custom native ads view, see the developer documentation in the sample code section. With the iOS project open in Xcode, check that ListTileNativeAdView.xib is present in the Runner project. Create the ListTileNativeAdFactory class In the project navigator, right-click on the runner group and select New File to create a header file for the new class. In the template dialog, select the Swift file and name it ListTileNativeAdFactory. After creating the ListTileNativeAdFactory.swift file, implement the ListNativeAdFactory class. Note that the class implements the createNativeAd() method in the FLTNativeAdFactory protocol. The factory class is responsible for creating the view object to render the native view. As you can see from the code, the factory class creates a GADNativeAdView object and populates it with a GADNativeAd object. ListTileNativeAdFactory.swift // TODO: import google_mobile_ads import google_mobile_ads // TODO: ListTileNativeAdFactory class implementation ListTileNativeAdFactory : FLTNativeAdFactory { funcnative ad: GADN native ad custom options: [AnyHashable: Any]? = null) -> GADNativeAdView? { let nibView = Bundle.main.loadNibNamed("ListTileNativeAdView", owner: nil, options: nil)! First let nativeAdView = nibView as! GADNativeAdView (nativeAdView.headlineView as! UILabel).text = nativeAd.headline (nativeAdView.bodyView as! UILabel).text = nativeAd.body nativeAdView.bodyView.isHidden = nativeAd.body == null (nativeAdView.iconView as! UIImageView) ", before it can be used from a Flutter page. Open the AppDelegate.m file and register the ListTileNativeAdFactory with a unique string identifier (listTile) by calling the FLTGoogleMobileAdsPlugin.registerNativeAdFactory() method. AppDelegate.swift import UIKit import Flutter // TODO: Import google_mobile_ads import mobile_ads @UIApplicationMain @ google objc class AppDelegate: FlutterAppDelegate { override func application(_ application: UIApplication, didFinishLaunchingWithOptions launchOptions: [UIApplication.LaunchOptionsKey: Any]?) throws FlutterResult { register(with: self) // TODO: Register ListTileNativeAdFactory let listTileFactory = ListTileNativeAdFactory() FLTGoogleMobileAdsPlugin.registerNativeAdFactory(self, factoryId: "listTile", nativeAdFactory: listTileFactory) return app, didFinishReadyFactory) using ListTileNativeAdFactory to render iOS native ads. Open lib/native_inline_page.dart. Then import the ad_helper.dart and google_mobile_ads.dart files by adding the following lines: native_inline_page.dart ... // TODO: Import ad_helper.dart import// TODO: import google_mobile_ads.dart import 'package:google_mobile_ads/google_mobile_ads.dart'; The NativeInlinePage class extends StatefulWidget { ... } Add the following elements and methods to your own display in the NativeInlinePageState class. Note that kAdIndex specifies the index at which the banner ad appears and is used to calculate the item's index using the _getDestinationItemIndex() method. native_inline_page.dart class NativeInlinePageState extends Status { // TODO: add kAdIndex static final kAdIndex = 4; // TODO: add NativeAd instance? Advertisement; ... // TODO: add _getDestinationItemIndex() int _getDestinationItemIndex(intrawIndex) { if (rawIndex >= kAdIndex && ad != null) { return rawIndex - 1; } return the raw index; } ... } In the initState() method, create and load a NativeAd that uses the ListTileNativeAdFactory to create the native ad view. Note that it uses the same factory ID (listTile) that was used to register the factory with the plugin. native_inline_page.dart @override void initState() { super.initState(); // TASKS: Instantiate NativeAd _ad = NativeAd( adUnitId: AdHelper.nativeAdUnitId, factoryId: 'listTile', Request: AdRequest(), Listener: NativeAdListener( onAdLoaded: (ad) { setState() { _ad = ad as NativeAd ; }); }, onAdFailedToLoad: (ad, error) { // Discard ad resource if loading fails ad.dispose(); print('Failed to load ad (code=${error.code} message=${ Error message })); }, ), ), _ad.load(); } Change the build() method to display the banner, if available. Update itemCount to count the banner ad entry and update itemBuilder to display the banner ad in the ad index ( kAdIndex) when the ad is loaded. Update the code to use the _getDestinationItemIndex() method to get the index of the content item. native_inline_page.dart @override Widget Builder (BuildContext context) { return Scaffold(... body: ListView.builder( // TODO: set itemCount based on display loading state itemCount: widget.entries.length + ( _ad != null ? ), 0), itemBuilder: (context, index) { // TODO: Display ad banners if ( _ad != null && index == kAdIndex) { return Container( height: 72.0, alignment: Alignment.center, child: AdWidget( ad : Advertisement(), ), ) else { // TODO: Get custom item index with _getDestinationItemIndex() final item = widget.entries[_getDestinationItemIndex(index)]; return ListTile(... ) }, ), ); } Release the resource associated with the NativeAd object by calling the NativeAd.dispose() method in the distribution() callback method. native_inline_page.dart @override void delete() { // TODO: Delete NativeAd object _ad?.dispose(); super.delete(); } That's all! Launch the project and click the Native Inline Ad button on the home page. After the ad has loaded, you will see the native ad in the middle of the list. You have completed the code lab. You can find the completed code for this code lab in the complete_or complete_kotlin_swift folder. folder.
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