Firebase tutorial android 2020

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Mobile apps need a backend. They store settings and data, score highs, check licenses and generate statistics. All of these uses have one thing in communication interfaces, and database structure. When you then get to the details as parallel access, it becomes more complicated. Fortunately, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database with full authentication support. Unlike a traditional database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database with full authentication support. Unlike a traditional database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database with full authentication support. Unlike a traditional database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database, Google Firebase takes care of all these problems for you. It's a ready-to-use cloud database with full authentication support. as by other users. The service offers a simple REST API. But the most effective message is to publish and subscribe the model through websockets. Sounds complicated? Google offers a separate SDK for each platform. Felgo and t you don't need to worry about the differences in the platform. Felgo includes Google's cross-platform Firebase Realtime Database. The same ML/JavaScript-based API works for both Android and iOS. If you need help with this, consult or outsource the development of the app with Felgo. Getting started in this Firebase in the cloud. Another important task is user authentication. Most impressive: live database updates from q to your cross-platform app. The scenario is a simple shopping list. It's a one-size-fits-all app that includes everything most apps need. Authentication, as well as adding, updating, and deleting items. Once you understand the concepts, it's easy to adapt them to your own scenario. If you're impatient, go straight to the final source code of the project on GitHub. Watch this tutorial on YouTube you can also watch a video version of this tutorial on YouTube. It is very in-depth and covers every step of the process. Master-Detail user interface for your cloud backend Curious to dive directly into the cloud database? Well, you'll need your Android and iOS bundle ID app package name when you set up Firebase. So start with the app and make your life easier. Discover and create a new project. Use the Felgo Apps zgt; Master-Detailed app. This gives you great boiler code for any list type of application. In step 2, select sets for targeted platforms: Android and/or iOS. Pay special attention to the Felgo Project Properties page 3). Here you identify the app ID you'll also need to install Firebase. In this case, choose com.vplay.ShoppingList. Google offers different Firebase plugin. It includes ready-made cross-platform code to interact with the Google cloud! Live testing on Android and iOS. If you target both Android and iOS, you'll want to test your app on both platforms. Felgo Live immediately deploys and performs any code changes on any connected phone. You can even connect and test on iOS phones when you're developing on Windows. You save an incredible amount of time: no more built, deployed and tested. To get started, download the Felgo Live app from the app store: Android/iOS. Next, make sure your computer and phone are in the same local network. Start the Felgo Live app on your phone and connect it to the Live server. If your Live Server isn't up and running yet, click on the Live Run button in t Creator to start developing with a download of live code! Felgo Plugin License Your app now shows a watermark that you are running a Firebase trial plugin. This is good for your first steps of testing! To get rid of the watermark trial and licensing reminders, you need a Felgo Indie license key. Authorization works through the license key for your application. Go to the . Choose the Google Firebase plugin. Next, click the green button to create a license key at the bottom of the page. Then enter the app ID (such as com.vplay.ShoppingList). The proposed version 1 is correct - it is a default in each new project. Copy a new license key to the code, add it to the licenseKey property in the Main.qml file. The watermark disappears. This video shows the original Master-Detail sample. When you insert a license key into the code, the application is instantly recharged - without a watermark. You'll then see a brief demonstration of the original functionality of the app. Create a real-time Google Firebase database. This serves as a complete easy backend for the example of a shopping list. To create a Firebase account, go to the Firebase homepage. How to use a Google account to see an empty console. The project button. Give you're building works great with a free account. You don't have to worry about payments. First, click on the Add Project button. Give your project a name to recognize it in the console: ShoppingList. Project ID is automatically generated with a number, as it should be globally unique. You can set up your ID if you want. Pay that your users will never see this ID though -- so don't spend too much time here. Click on THE CREATE PROJECT. Seconds later, the project dashboard greets you with a review: Connect Connect The firebase app for your shopping list app stores items in the cloud. Give the app access to the Firebase project. Click on a big circle for your target platform: iOS or Android. Enter the name of the package again. The app's additional nickname is only for internal use inside the dashboard. Master Firebase now prompts to download this file and store it somewhere on your computer. The main parts of the config file look like this. They contain all the information you need to connect your app to Firebase. project_info: project_number: 766025596428, firebase_url: : Shoppinglist-vplay, storage_bucket: shoppinglist-vplay, appspot.com, Customer: client_info: package_name: com.vplay.ShoppingList api_key: current_key: configuration_vers dialogue, enter: File Title: DataModel Path: Create a new stitcher in the project's qml folder, called the model, the file generated is almost empty. Change the default identifier from element to dataModel. If you use the Firebase plugin, add the following line to the import section at the beginning of the file: importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file: importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file: importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file: importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file: importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file importIng Felgo 3.0 Firebase Plugin, add the following line to the import section at the beginning of the file importIng Felgo 3.0 Firebase Plugin at the beginning of the file import section at the begin - for both Android and iOS. Add it to your point. Your data model now looks like this: import Felgo 3.0import 't'yck 2.0import belgo 3.0item - id: dataModel FirebaseConfig - id: fbConfig project_info, project_info, project_number, e.g., 82701038584, or shoppinglist-vplay databaseUrl: It;your database url, from project_info q firebase_url, e.g., https:q apikey:qt.platform.os Api_key: qlt'your ios' api's key, from the client' api_key q current_key' Your ios, your application id, from the client, client_info, mobilesdk_app_id: your ios application id, from the client, lent, see a JSON-based NoS'L database is a tree of elements. Everyone can have children and any structure. This makes the database much more flexible than the tables in the traditional S'L. Some of the structures are pre-defined by Firebase; some of them come from приложения. Краткий обзор, прежде чем погрузиться в:</your> </your> &l items that a stranger added, do you? So the next node is users. It contains a list of user interfaces. The database itself does not store any additional information about user identification. You can see this in the Firebase Monitoring Panel Authentication section: a shoppinglist user: the root site of a separate shopping list. This is what the user sees as a war in the system. It contains several items, one for each item to buy. Here, it is now milk and apples. Create a cloud database in your browser, go back to the Firebase dashboard. Select the Database on the left. Next, click on the Start button in the Real Time Database on the left. Next, click on the Firebase dashboard. Select the Database on the left. Next, click on the Start button in the Real Time Database in your browser, go back to the Firebase dashboard. Select the Database on the left. Next, click on the Start button in the Real Time Database in your browser, go back to the Firebase dashboard. future tutorial. Next is the real-time security rules dialogue for the database. It's a good idea to start with proper authentication right away, instead of plugging it in later. The firebase authentication service simplifies this work. It supports several authorization providers: Facebook, Google Account, Twitter, GitHub and even phone authentication of the user on SMS. Firebase even allows you to use anonymous authentication. This means that the user does not need to take any authentication of the user on SMS. Firebase even allows you to use anonymous authentication. This means that the user does not need to take any authentication of the user does not need to take any authentication of the user does not need to take any authentication. This means that the user does not need to take any authentication of the user does not need to take any authenti emails. To activate it, go to the authentication section (1) of the Firebase dashboard. Next, choose the Login method (2). Click on the Email/Password button (3) to expand this section. Turn it on (4) and save the changes (5). In templates, you can customize your behavior. For example, custom confirmation email text when a user clicks. Firebase Login from your App client: Felgo architecture simplifies the authentication process. The engine includes a predetermined FirebaseAuth element that handles cloud communicate with each other DataModel is a direct child of the application. It's a layer that handles authentication and purchase items (your data). This is abstracted by Google Firebase. part of the app doesn't have to worry about backending or any cloud connection. Its onLoggedIn slot triggers navigation from Entry to ShoppingListPage. Firebase Auth is an item provided by Felgo. He communicates with the Firebase cloud. It provides convenient signals and slots. They integrate integrate events in your app. FirebaseConfig is something we've already created. It contains basic settings such as the API key, configuration, ... NavigationStack handles all visible pages. The entry page is initially visible. It contains a user interface to enter the username and password. You can also initiate new user registrations for the Firebase backend. Its onLogin slot performs when the user presses a button to log in/register. ShoppingListPage shows all the purchase items you get from the FirebaseAuth to dataModel. It's easy to use: assign an ID and give it a link to the config item you've created before. Also, add two signals (loggedIn, loggedOut) to dataModel. They inform the app about the user's login status. сигнал loggedInsignal loggedOutFirebaseAuth : auth config: fbConfig onLoggedIn: если (!успех) nativeUtils.displayMessageBox (qsTr (Причина: %1). арг (сообщение), 1) onAuthenticatedChanged: если (аутентифицированные) dataModel.loggedIn()' FirebaseAuth предлагает три важных слота для реагирования на облачные ответы: onLoggedIn: уволен после завершения запроса loginUser. Это хорошее место для вас, чтобы проверить, если была проблема с логин. onUserRegistered: как логин, но для готового запроса registerUser. onAuthenticationИзменные: самое важное изменение статуса: является ли пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему? С помощью этого общего слота ваше приложение является гибким независимо от того, как пользователь вошел в систему. loggedIn, чтобы позволить приложению переключиться на главную страницу модели данных. Firebase: Running login, user registration and Logout Now, your app is already processing status changes from Firebase. But, you still need to call the login! The FirebaseAuth element includes convenient methods for launching authentication tasks. Your DataModel.qml encapsulates the connection with Firebase. So you include simple methods that go to Firebase queries. registerUser (email, password) - auth.logoutUser function () - auth.logoutUser function with Firebase. So you include simple methods are an exact copy of the existing one. Once you expand the app, you can surround these calls with additional checks. For example, you can check if the email address is valid. So it's a good idea to think about good architecture from the start. Firebase Login Stream in The Sample App apr already includes two sample page pages Firebase, which we won't use however. They are the brief essence of what you can do with Firebase. In our example, we use Firebase as part of the full architecture of the application. Create a new page: LoginPage.qml. It will be a simple page with 2 text boxes and a button. The flag switches between the vagina and the user's new registration. Copy the source code from the GitHub sample to the new page. What is important for the concept is that the page emits a signal as soon as the user presses the button: login (bool isRegister, email line, password line). Options include all Firebase cloud. Replace the current content of Main.qml with: import Felgo 3.0 import Felgo 3.0 import App model and id: 'lt;the felgo' plugin' license' key' you've generated earlier'gt; application licenseKey: DataModel - id: dataModel onLoggedIn: stack.push (shoppingListPage) - NavigationStack id: LoginPage stack: id: loginPage onLogin: password) - Omponent: shoppingListPage MasterPage - onPopped: dataModel.logoutUser () - In the code fragment above, you can see that the app also owns a DataModel element with a dataModel (registerUser / loginUser). As soon as the login process is complete, the onLoggedIn slot in DataModel pushes shoppingListPage into the navigation stack. Remember: this is a MasterPage ID from a template. With this approach, navigation back to android /iPhone-UI appears page in the navigation stack - LoginPage. Check out your app! You can already register a new user in Google Firebase and log in: Firebase Database in real time - Firebase Pricing Database in real time is NoS'L DB. It is an effective and low latency, and is especially targeted at mobile customers. The real-time database stores all the data. This is the perfect target for many apps, such as our shopping list example. What about pricing? You are charged for bandwidth and storage. The free Spark Plan already provides you with 100 simultaneous connections, 1GB of storage and 10GB/month data transmission. Updates to Flame Plan and Blaze Plan give you even more data allowance. Google has a good comparison table, highlighting the differences between different plans Структура базы данных Firebase - Live Updates Следующее видео показывает </The> </The> Recording of what's happening behind the scenes: On the left: a new user is registered. You see his ID (email address). This is due to a unique UID (IC27Aha...). Right: The user then adds two items to their shopping list: Milk and Apples. Every change made by the customer flashes in color - in real time! The hierarchy of the JSON model is this: shoppinglist-vplay: the root node of your database. Its name is the project ID you used to create the Firebase project. Users: Added through a piece of authentication. Stores data separately for each registered user. The key is the user's UID. The database itself does not contain the user's email address. Shoppinglist user: Root database key available to an individual user. The name is set by the app as you will do on the next step. In a shopping list scenario, you can use timestamp as a unique key. The node contains two children: Timestamp (where you can use timestamp (where you can use timestamp (where you can use timestamp as a unique key. The node contains two children: Timestamp (where you can use timestamp (where you can use timestamp as a unique key. The node contains two children: Timestamp (where you can use timestamp as a unique key. The node contains two children: Timestamp (where you can use timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp (where you can use timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children: Timestamp as a unique key. The node contains two children are the node contains the node cont customize every aspect. Connecting to the Firebase database in real time Firebase Interface is powerful. All connected customers receive real-time updates. It also offers full offline support. When a user goes online again, the changes are synchronized with the cloud. Felgo includes one item that works on Android and iOS. Especially for multi-platform scenarios, you'll love it. FirebaseDatabase qML offers methods for obtaining and updating the JSON tree in the Firebase cloud. Callbacks inform you whenever items have changed and when operations are completed. In the architecture of the application, you're setting up a data stream from the user interface to the Firebase database in the cloud: the I button in the navigation rack (1) triggers the input dialogue (2). It sends the name of a new item for purchase to DataModel. DataModel abstracted Firebase in a real-time database (3). Felgo's FirebaseDatabase interacts with the cloud (4). Whenever the model data in the cloud changes, the app gets a callback (5). This updates the cached list of trading goods (6). Firebase Database Configuration - Item Warehouse Add the following snippet of code to your DataModel: property var shoppingItems:) read the line of properties dbKeyAllShoppingItems: shoppingItems onRealtimeUserValueChanged: if (key - KeydbAllShoppingItems) shoppingItems ready) onWriteCompleted: console.log (write completed) console.log (JSON.stringify (dataModel.shoppingItems)) - Firebase element (with id database) requires reference (confiscate) to the general Firebase of the firebase of the firebase of the RealtimeUserValueKeys property. Real-time UserValueChanged starts the signal every time the keys are changed. For example, another family member who shares your shopping list account. The signal every time the shopping list of items! The shoppingItemsLoaded (cost) feature then assigns items to datamodel public ownership. It also ensures that the list never becomes zero using the blank array I'm in case the trading items haven't been created so far. You can print raw JSON data on your console to debug. During development, it helps to see what Firebase is transmitting to your app. In the video example above, it will be: 1529230812085: Date: 1529230812085, text: Milk1529230821894: Date: 1529230821894; text: A pples - Prepare a shopping list scenario. You need the following functionality: A list of items to purchase Click Element to go to the details page. You can edit the item there. Swipe the item to the left to reveal the deletion button. Creates a new trading element. Add the purchase items you assign to dataModel.shoppingItems as a model for listing. ListPage instantly strings for each item in the model. Minimum MasterPage code: import Felgo 3.0import zTKvik 2.5ListPage id: masterPage title: qsTr (Buying Elements) Model: Object.keys (dataModel.shoppingItems) signal addNewShoppingItem (line text) - if (OK) - masterPage.addNewShoppingItem (text) - you start by adding trading items to the Firebase database in real time. The K button is displayed in the navigation bar. You achieve this with rightBarItem provided by the basic type of Page. Make your life even easier with the preordained IconType.plus symbol. With Felgo's multi-platform support, the button is always placed in the right screen area for Android and iOS. To use even more pre-built functionality, use ListPage NOML as the base element of the file. ListPage comes from a more general type of Page. In addition to the shared Page, it includes a full-screen AppListView item. It will contain all your trading In addition, it even offers advanced features such as a fully animated pull to the update. When the user presses the I button, the app shows a simple single text text (InputDialog). Store items for purchases in the Firebase database in real time for good architecture, you send a new user purchase item through the DataModel signal. Thus, identify the addNewShoppingItem signal (line text) in ListPage (with ID MasterPage). InputDialog's callback function then emits a signal. It sends text that the user enters as a setting. Now connect the MasterPage signal to the DataModel slot. As before to enter, identify it in Main.qml. Expand your previous MasterPage definition in Main.qml: Component and ID: shoppingListPage MasterPage - onAddNewShoppingItem (text) - var time - new date (.) var shoppingItem - date: time, text: text - console.log (Adding element...) database.setUserValue (dbKeyAllShoppingItems - / - time, shoppingItem - date: time, text: text - console.log (Adding element...) database.setUserValue (bKeyAllShoppingItem - date: time, shoppingItem - date: time, text: text - console.log (Adding element...) JSON tree is a shoppinglist user. You can reuse the time stamp as a key; You can be sure that this is a unique identifier. Contains pairs of keys/values to store in the database. A simple shopping list app doesn't show that the operation is ongoing. When you send the data, you can activate the animation. Stop it again when you get downloaded Face-to-face callback. To get started, go to the console. Your app's shopping list already adds items to the real-time database in the cloud. The last important feature is the user interface to show the trading elements! Back to MasterPage.gml, expand ListPage code with delegate. Delegate instantly for each individual item on your shopping list. Delegate: SwipeOptionsContainer: container readonly property var shopping Item: dataModel.shopping Item: (modelData) Width SimpleRow; parent, width SimpleRow; parent, width text; container, shopping Item, text detailText; new date (container, shopping Item, date, to LocaleString () SwipeOptionsContainer The next step is to add a function to remove the item with a swipe gesture. Typically, the items on the list have a very simple structure; one or two lines of text, plus an additional image. Felgo item SimpleRow provides a ready-made layout. Three properties: text, detailText and icon. There's one simple trick to be aware of. How to access the individual properties text, detailText and icon. There's one simple trick to be aware of. How to access the individual properties text, detailText and icon. There's one simple trick to be aware of. How to access the individual properties of the item currently shown? The model assigned to ListPage contained only keys. But, the line should get access to the full data of the trading point! This includes the name and date. Where can you get the full data? It is stored in DataModel. Thus, access to it is based on the key stored in the list view model. The relevant item data is then available through readonly property var shoppingItem: dataModel.shoppingItems (modelData) Here you see your app in action: Once the user enters the app on the phone, he adds an element with Felgo text to the list of trading elements. Thanks to the database's real-time features, the item immediately appears in the web view. Google highlights it in green so you know about the changes. Even more surprising: real-time changes are also working in a different direction. Try removing the purchase item from the online view of the database. It will disappear immediately on the smartphone. No additional code was needed. In DataModel, the FirebaseDatabase felgo element emits a signal every time the remote database changes. In the app, you reboot data based on its new content. Remove items from the NoS'L Firebase database your app is already processing real-time updates from the Internet. Now, the final extension is for you to write: let the user remove the trading items database your app is already processing real-time updates from the phone! SwipeOptionsContainer for ListPage items contains useful functionality out of the box. Like many advanced apps, users can swipe the item to the side. In your MML, you specify the item that will appear. In this case, select SwipeButton with a red background and an X icon. Now that the user swipes and presses the delete button, his onClicked slot performs. rightOptions () masterPage.deleteShoppingItem (container.shoppingItem.date) - In the onClicked slot, you have to report a real-time database about the remote item. To do this, add a second new signal for ListPage in MasterPage: deleteShoppingItem (real ID) As a parameter, your code sends an item ID to delete. Remember, we used the date of creation as a unique identifier! The app must re-signal the data model. This architecture separates the view from the model. Thus, expand the MasterPage component to Main.qml to rewind the signal. For reference, this is what Definition of the component looks now: Component and ID: shoppingltem: dataModel.deleteShoppingltem (id) onPopped: dataModel.logoutUser () dataModel.logoutUser () JavaScript's data model function. To stick to the naming scheme, call it deleteShoppingItem (id). As a last step, go to DataModel.qml and add a feature implementation. This is just one line and resembles a call to add an item to zero joy. Result: The item is removed. deleteShoppingItem (id) database.setUserValue (dbKeyAllShoppingItems - / - id, null, loadingFinished) Animation below shows how removing an item on your phone works. Again, the left side shows a real-time view of the Firebase database on the Internet. Items disappear instantly in a web view when a user deletes them over the phone. Going further your cross-platform shopping list app is powerful: it has an effective user interface to create new elements. Remove the elements with an intuitive swipe gesture. All changes are immediately synchronized with q from the cloud database. Share the login with your family. Everyone will be aware of the events. For shopping lists, it is not necessary too often. But for other uses, you can also include functionality to edit items. As a bonus, we've added the necessary code to the full example on GitHub. Check it out to see how the change in existing items works! In addition, the open source example is an excellent reference because it includes additional code comments. By combining the Firebase database in real time with the tt and Felgo databases, you get support to authenticate users and share NoS'L databases with multiple lines of code. If you also want to store large files in the cloud, check out the FirebaseStorage type. More posts like this learning machine: Add image classification for iOS and Android with gt and TensorFlow y t AR: Why and how to add augmented reality to your mobile release app 2.17.0: Firebase Cloud Storage, Downloadable Resources in Runtime and Native File Access across all platform platforms firebase video chat application android studio tutorial 2020

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