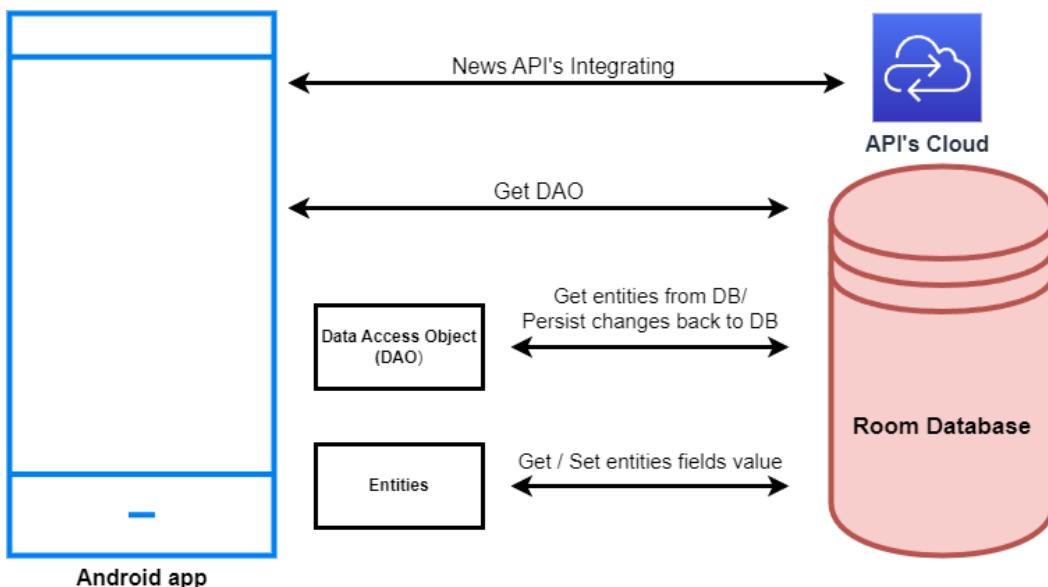


An Android Application For Keeping Up With The Latest Headlines

Project Description:

The app's main feature is displaying a list of news articles, each with a title, image, and brief description. Users can scroll through the list of articles and tap on an article to view more details. The app uses the Jetpack Compose UI toolkit to build the UI and it uses the coil library to load images. The app fetches data from a remote server using Retrofit library and demonstrates how to use the Jetpack Compose UI toolkit for Android development.

Architecture :



Learning Outcomes :

By end of this project:

- You'll be able to work on Android studio and build an app.
- You'll be able to integrate the database accordingly.
- You'll be able to integrate the API's accordingly.

Project Workflow:

- Users register into the application.
- After registration , user logins into the application.
- User enters into the main page

Note:

To complete the project you need to finish up the tasks listed below:

Tasks:

- 1.Required initial steps
- 2.Creating a new project.
- 3.Adding required dependencies.
- 4.Adding permissions
- 5.Creating the database classes.
- 6.Creating API Service and required classes for integrating API
- 7.Building application UI and connecting to database.
- 8.Modifying AndroidManifest.xml
- 9.Running the application.

Required Initial Steps

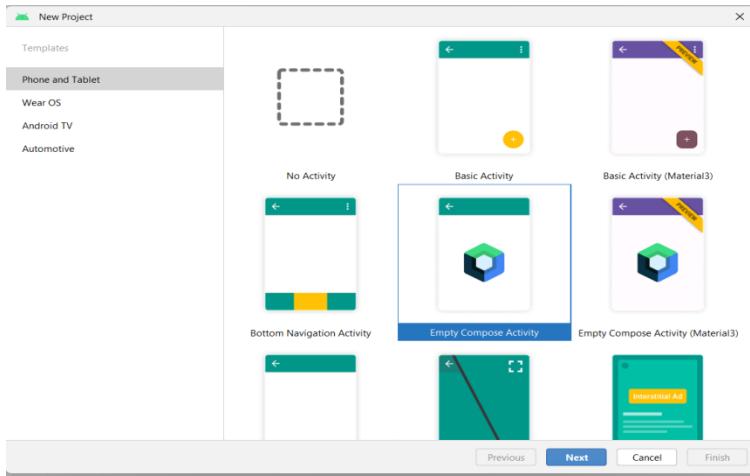
This milestone explains about Required initial steps:

<https://developer.android.com>.

Creating A New Project

Steps need to be followed:

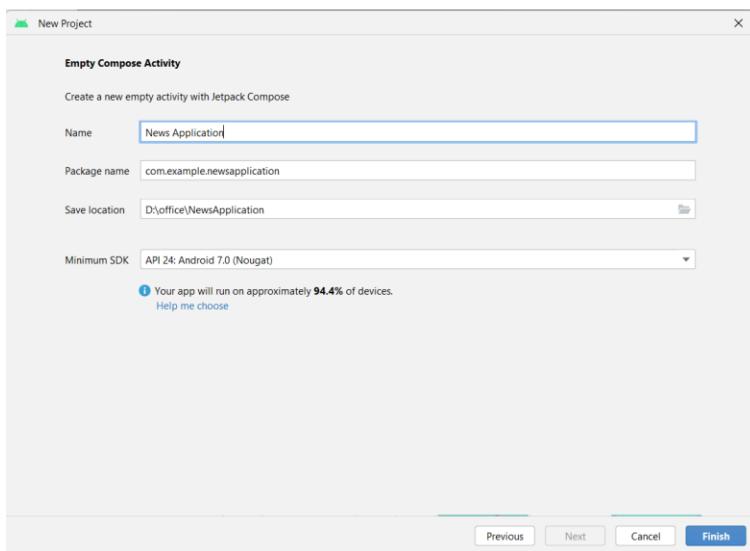
Step 1 : Android studio > File > New > New Project > Empty Compose Activity
Step 2 : Click on **Next** button.



Step 3 : Give name to the new project.

Step 4 : Give the Minimum SDK value

Step 5 : Click Finish



Main activity file

The screenshot shows the Android Studio interface with the following details:

- Top Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Bar:** NewsApplication (app) - main.java - com.example.newsapplication - MainActivity
- Code Editor:** The file `MainActivity.kt` is open, displaying Java code for an Android application. The code includes imports for `com.example.NewsApplication`, `ComponentActivity`, and `MaterialTheme`. It defines a `MainActivity` class that extends `ComponentActivity` and overrides `onCreate` and `setContent` methods. It also contains a `Greeting` function and a `fun DefaultFreestyleColor` function.
- Side Panels:** The Project panel shows the structure of the project with files like `AndroidManifest.xml`, `build.gradle`, and `gradle-wrapper.properties`. The Build Variants panel shows the configuration for the app module. The Device Manager panel shows a Samsung SM-M515D device selected.

Adding Required Dependencies

This milestone explains about adding required dependencies.

Gradle Scripts > Build.Gradle(Module :App)

Gradle scripts > build.gradle(Module :app)

```
build.gradle (app) x
Gradle files have changed since last project sync. A project sync may be necessary for the IDE to work properly.

42     packagingOptions {
43         resources {
44             excludes += '/META-INF/{AL2.0,LGPL2.1}'
45         }
46     }
47 }

48 dependencies {

49
50     implementation 'androidx.core:core-ktx:1.7.0'
51     implementation 'androidx.lifecycle:lifecycle-runtime-ktx:2.3.1'
52     implementation 'androidx.activity:activity-compose:1.3.1'
53     implementation "androidx.compose.ui:compose-ui_version"
54     implementation "androidx.compose.ui:ui-tooling-preview:$compose_ui_version"
55     implementation "androidx.compose.material:material:1.2.8"
56
57     No candidates found for method call
58     implementation 'st.kmp:compose-test-junit4:$compose_ui_version'
59     implementation 'st.kmp:compose-test-manifest:$compose_ui_version'
60     implementation 'st.kmp:compose-test-robot:$compose_ui_version'
61     implementation 'st.kmp:compose-test-rider:$compose_ui_version'
62     implementation 'st.kmp:compose-test-rider-robot:$compose_ui_version'
63     implementation 'st.kmp:compose-test-rider-test:$compose_ui_version'
64 }
65 }
```

Adding Retrofit Dependencies

Adding Retrofit dependencies

```
// Retrofit
implementation 'com.squareup.retrofit2:retrofit:2.9.0'
implementation "com.squareup.okhttp3:okhttp:5.0.0-alpha.2"
implementation 'com.squareup.retrofit2:converter-gson:2.9.0'
```

Adding Coil Dependencies

```
implementation("io.coil-kt:coil-compose:1.4.0")
```

```
dependencies {
    implementation 'androidx.core:core-ktx:1.7.0'
    implementation 'androidx.lifecycle:lifecycle-runtime-ktx:2.3.1'
    implementation 'androidx.activity:activity-compose:1.3.1'
    implementation "androidx.compose.ui:ui:$compose_ui_version"
    implementation "androidx.compose.ui:ui-tooling-preview:$compose_ui_version"
    implementation 'androidx.compose.material:material:1.2.0'

    testImplementation 'junit:junit:4.13.2'
    androidTestImplementation 'androidx.test.ext:junit:1.1.5'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.5.1'
    androidTestImplementation "androidx.compose.ui:ui-test-junit4:$compose_ui_version"
    debugImplementation "androidx.compose.ui:ui-tooling:$compose_ui_version"
    debugImplementation "androidx.compose.ui:ui-test-manifest:$compose_ui_version"

    // Room Database
    implementation 'androidx.room:room-common:2.5.0'
    implementation 'androidx.room:room-ktx:2.5.0'

    // Retrofit
    implementation 'com.squareup.retrofit2:retrofit:2.9.0'
    implementation "com.squareup.okhttp3:okhttp:5.0.0-alpha.2"
    implementation 'com.squareup.retrofit2:converter-gson:2.9.0'

    implementation("io.coil-kt:coil-compose:1.4.0")
}
```

Click on Sync now.

Adding Permissions

This milestone explains about adding permissions.

Open AndroidManifest.Xml

Open AndroidManifest.xml. Add Permission To Access Wifi And Internet

Add permission to access wifi and internet

```
<!-- permissions-->
<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
<!-- permissions-->
<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>

</application>
```

Creating The Database Classes

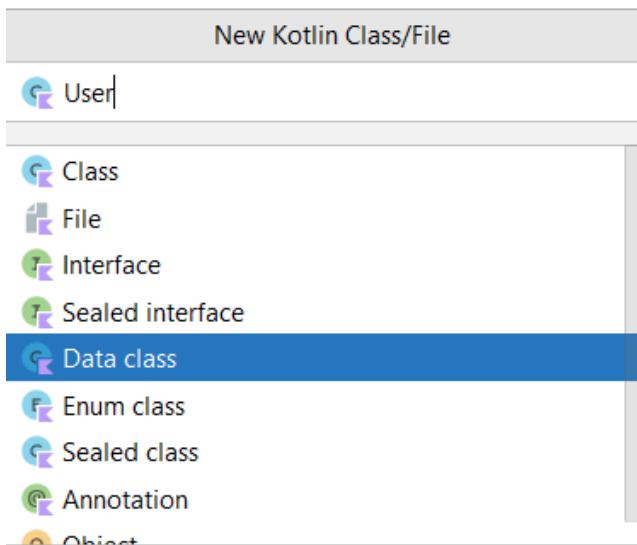
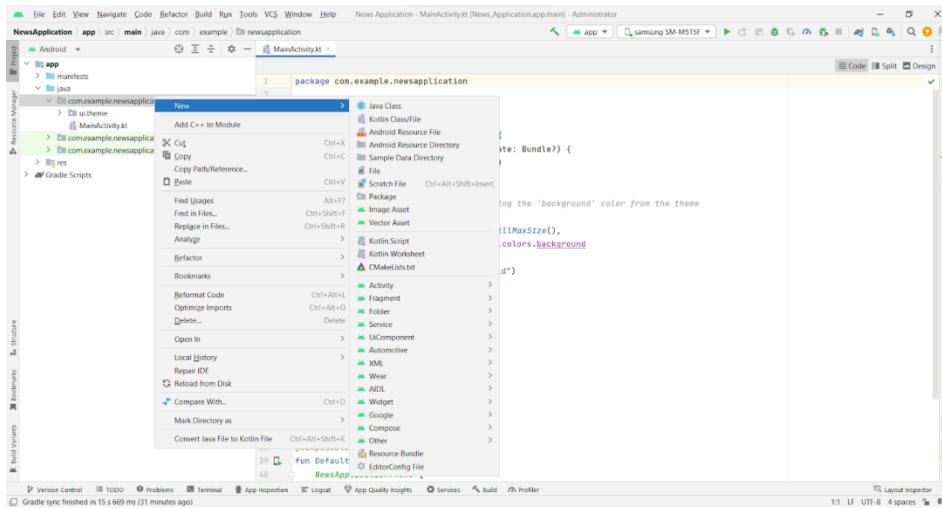
Creating the database classes

- To learn more about Database follow this link:

<https://gorillalogic.com/blog/android-room-tutorial-simplifying-how-you-work-with-app-data/>

Create User Data Class

Create User data class

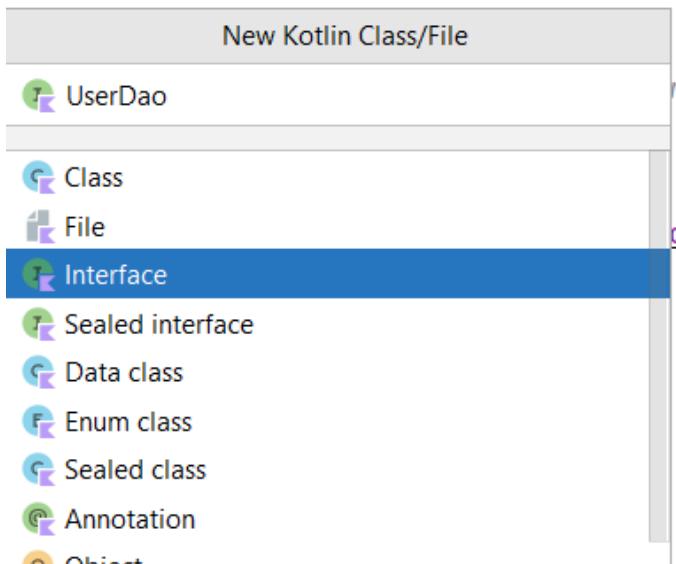
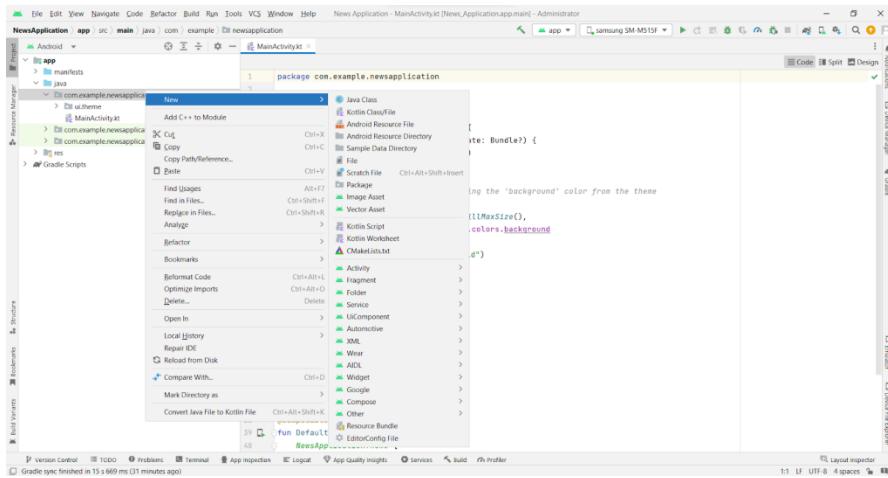


User class code:

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/User.kt>

Create An UserDao Interface

Create an UserDao interface

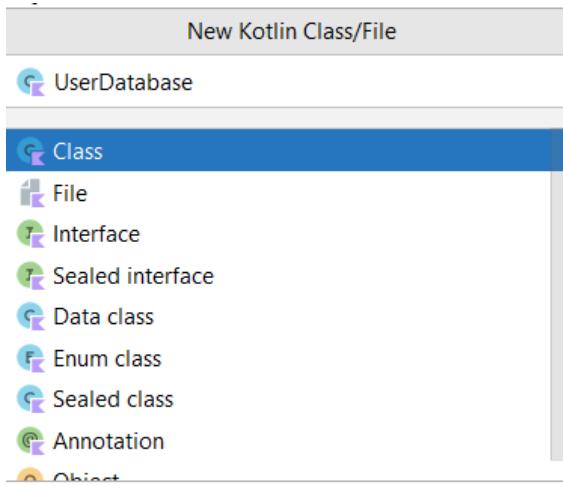
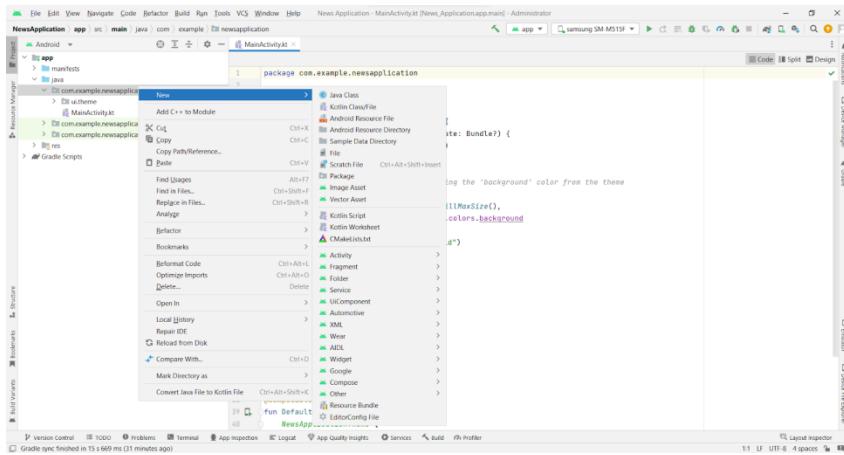


UserDao interface code:

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/UserDao.kt>

Create An UserDatabase Class

Create an UserDatabase class

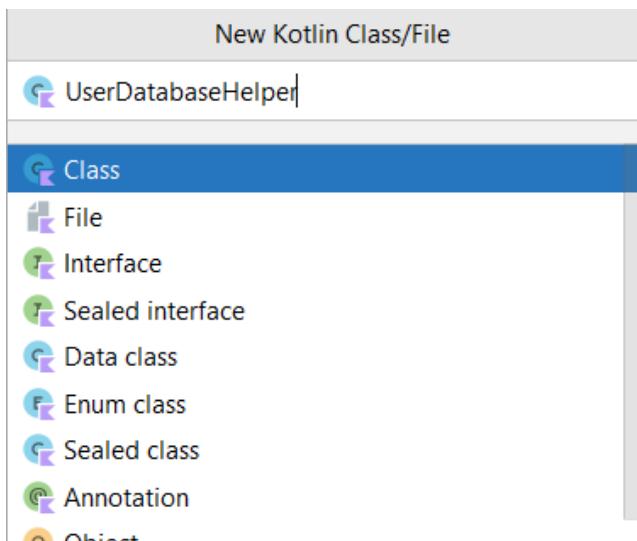
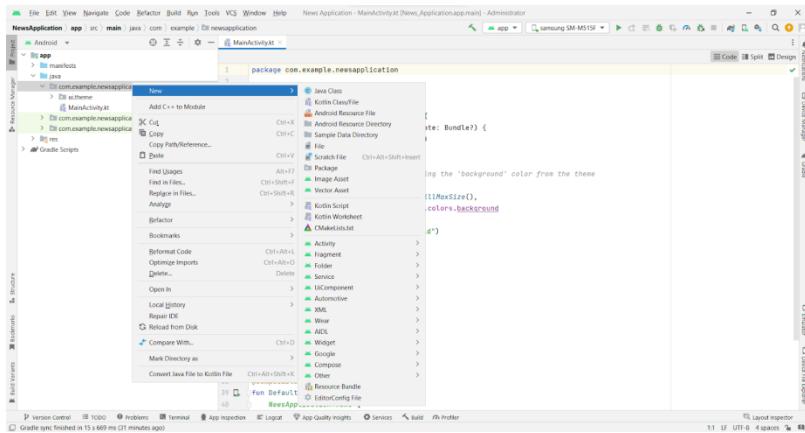


UserDatabase class code :

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/UserDatabase.kt>

Create An UserDatabaseHelper Class

Create an UserDatabaseHelper class



UserDatabaseHelper class code :

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/UserDatabaseHelper.kt>

Creating API Service And Required Classes For Integrating API

This milestone explains about creating API service and required classes for integrating API

Create A API Key For The Required API Create a API key for the required API

The screenshot shows the News API homepage. At the top, there are links for 'Get started', 'Documentation', 'Pricing', 'Login', and 'Get API key'. Below that, a banner says 'Locate articles and breaking news headlines from news sources and blogs across the web with our JSON API'. There are three examples of API requests:

- Example 1: 'All articles about Tesla from the last month, sorted by recent first' with the URL `https://newsapi.org/v2/everything?q=tesla&from=2023-02-13&sortBy=publishedAt&apiKey=API_KEY`. The response shows a status of "ok" and total results of 8842.
- Example 2: 'Top breaking news stories from the last hour' with the URL `https://newsapi.org/v2/top-headlines?apiKey=API_KEY`. The response shows a status of "ok" and total results of 67.
- Example 3: 'All articles about Tesla from the last month, sorted by recent first' with the URL `https://newsapi.org/v2/everything?q=tesla&from=2023-02-13&sortBy=publishedAt&apiKey=API_KEY`. This example is identical to the first one.

- **Code which is needed to copy:**

The screenshot shows the News API interface. A specific API request is highlighted in a blue box:

```
GET https://newsapi.org/v2/everything?q=tesla&from=2023-02-13&sortBy=publishedAt&apiKey=API_KEY
```

The response shows a status of "ok", total results of 8842, and the first few articles:

```
{  
  status: "ok",  
  totalResults: 8842,  
  articles: [  
    {  
      source: {  
        id: null,  
        name: "Bitzoc.com"  
      },  
      ...  
    }  
  ]  
}
```

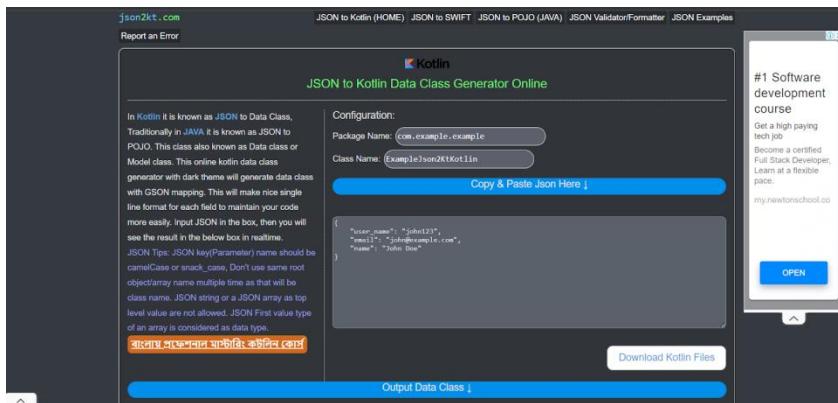
- **Enter the API key at API_KEY to get the complete json file.**

Json File

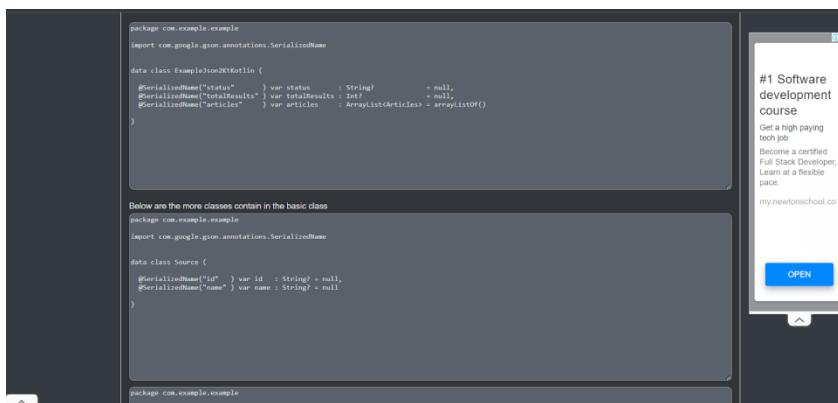
The screenshot shows a search result from a news aggregator website. The main title is "Facebook's parent company looking into a new social media platform". Below it, there are several news articles with their titles, authors, and brief descriptions. One article by Julia Shapley discusses Meta's interest in creating a new social platform to rival Twitter. Another article by Michael S. Gómez discusses the launch of a new social media platform called "Metaverse" by Facebook's parent company, Meta. Other articles mention the impact of the Metaverse on the music industry and the rise of AI-generated content.

Copy And Paste The Complete Json File To Json2kt.Com

Copy and paste the complete json file to json2kt.com



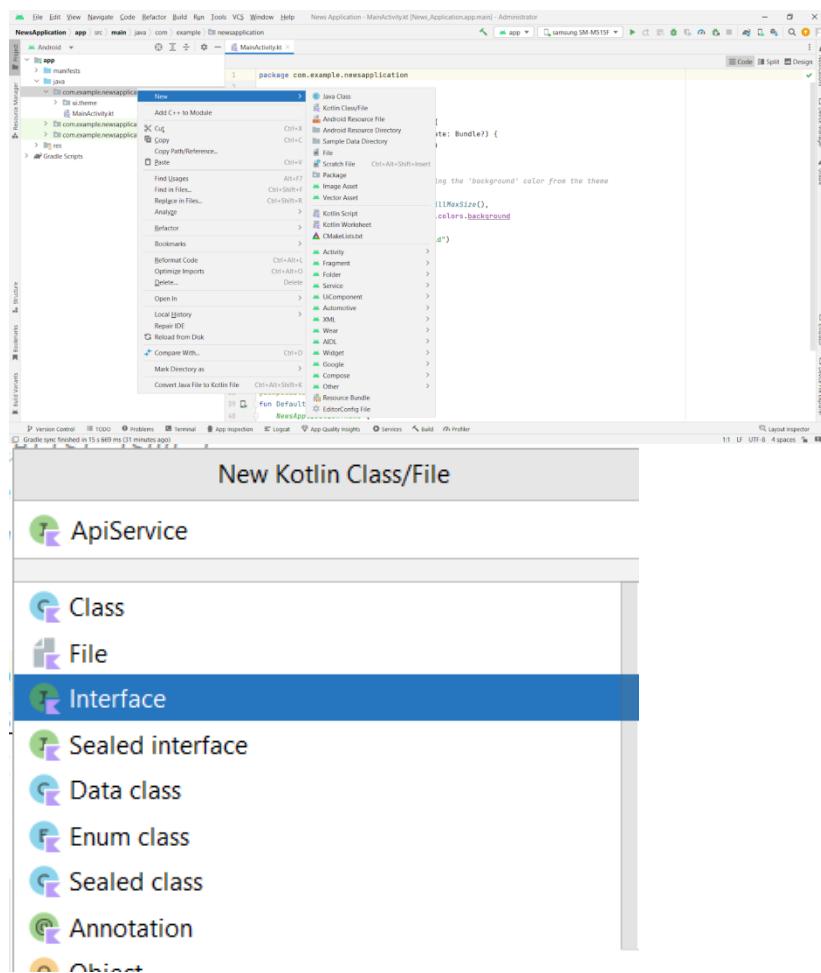
Click on Output Data class



Now use this classes in android studio

Database For News Integration Into Project

Create ApiService Interface



```

package com.example.newsheadlines

import ...

interface ApiService {
    @GET("top-headlines?country=us&category=business&apiKey=684cb893caf7425abeffad82acd0f4e")
    suspend fun getMovies() : News

    companion object {
        var apiService: ApiService? = null
        fun getInstance() : ApiService {
            if (apiService == null) {
                apiService = Retrofit.Builder()
                    .baseUrl("https://newsapi.org/v2/")
                    .addConverterFactory(GsonConverterFactory.create())
                    .build().create(ApiService::class.java)
            }
            return apiService!!
        }
    }
}

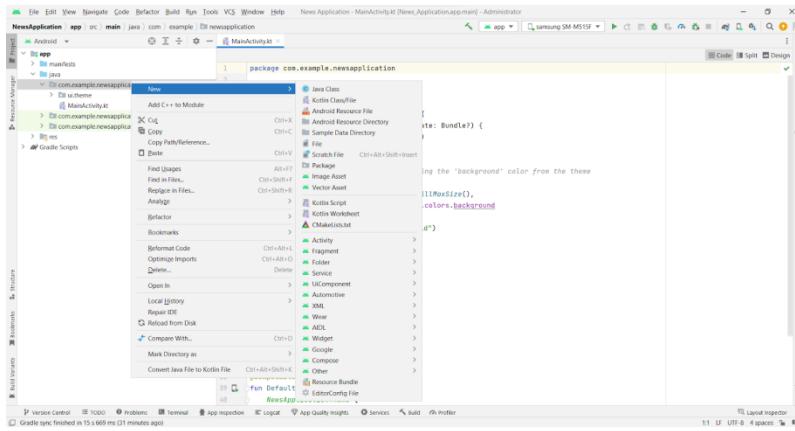
```

ApiService interface code:

<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/ApiService.kt>

Create Model Data Class

Create Model data class



New Kotlin Class/File

Model

- Class
- File
- Interface
- Sealed interface
- Data class**
- Enum class
- Sealed class
- Annotation
- Object

```
package com.example.newsheadlines

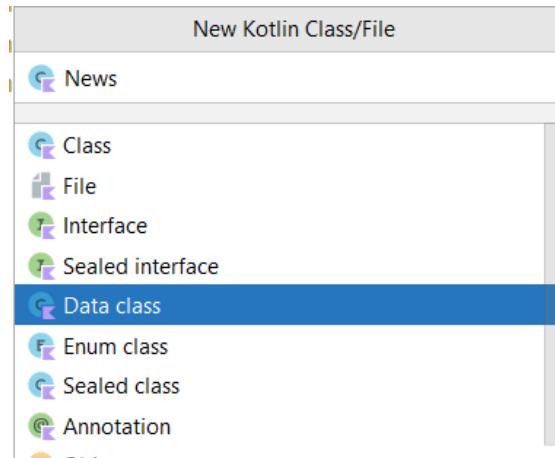
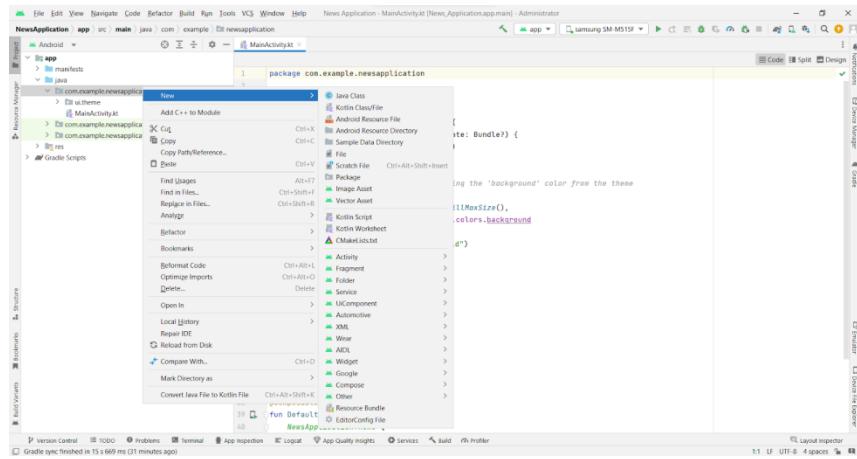
data class Movie(val name: String,
                val imageUrl: String,
                val desc: String,
                val category: String)
```

Model class code:

<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/Model.kt>

Create News Data Class

Create News data class



```

package com.example.newsheadlines

import ...

data class News (
    @SerializedName("status") var status:String?= null,
    @SerializedName("totalResults") var totalResults : Int? = null,
    @SerializedName("articles") var articles : ArrayList<Articles> = arrayListOf()
)

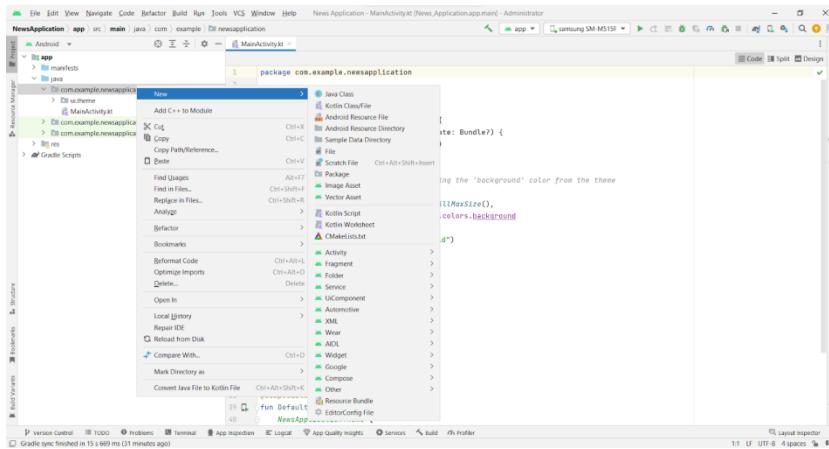
```

News class code:

<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/News.kt>

Create Source Data Class

Create Source data class



New Kotlin Class/File

Source

- Class
- File
- Interface
- Sealed interface
- Data class**
- Enum class
- Sealed class
- Annotation

```
package com.example.example

import com.google.gson.annotations.SerializedName

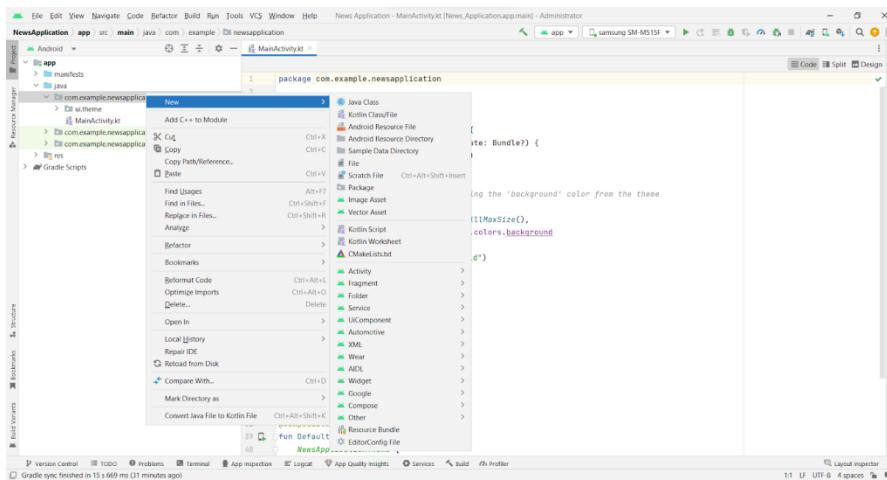
data class Source (
    @SerializedName("id") var id : String? = null,
    @SerializedName("name") var name : String? = null
)
```

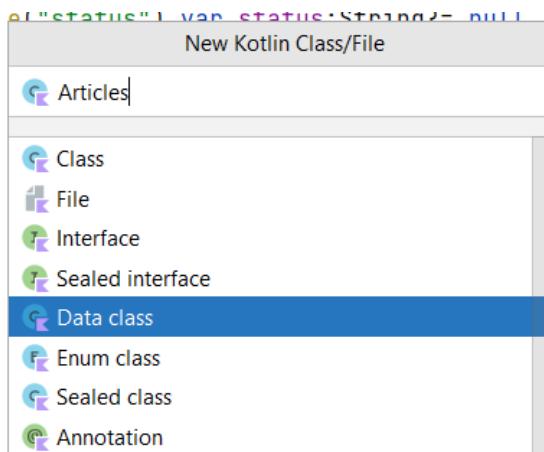
Model class code:

<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/Source.kt>

Create Articles Data Class

Create Articles data class





```
package com.example.example

import com.google.gson.annotations.SerializedName

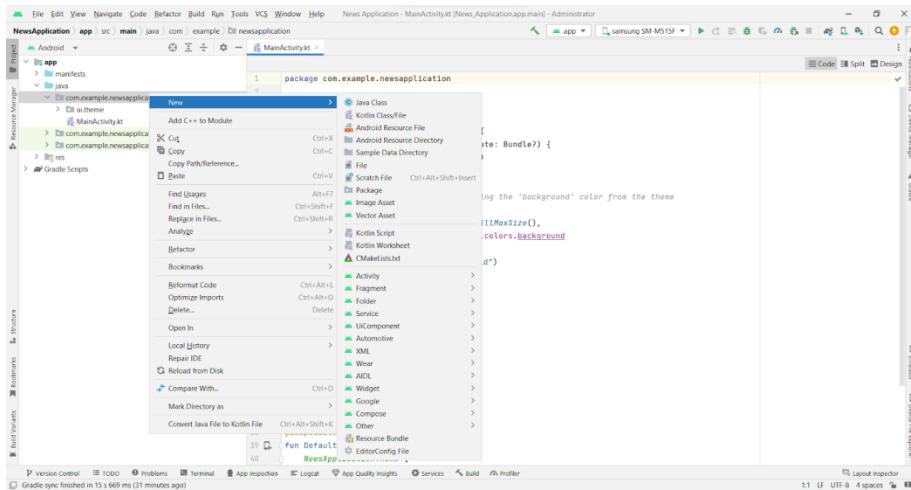
data class Articles {  
    @SerializedName("title") var title : String? = null,  
    @SerializedName("description") var description : String? = null,  
    @SerializedName("urlToImage") var urlToImage : String? = null,  
}
```

Article class code:

<https://github.com/smarterinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/Articles.kt>

Create MainViewModel Class

Create MainViewModel class



New Kotlin Class/File

MainViewModel

Class

- File
- Interface
- Sealed interface
- Data class
- Enum class
- Sealed class
- Annotation
- Object

```
package com.example.newsheadlines

import ...

class MainViewModel : ViewModel() {
    var movieListResponse:List<Articles> by mutableStateOf(listOf())
    var errorMessage: String by mutableStateOf( value: "")
    fun getMovieList() {
        viewModelScope.launch { this: CoroutineScope
            val apiService = ApiService.getInstance()
            try {
                val movieList = apiService.getMovies()
                movieListResponse = movieList.articles
            }
            catch (e: Exception) {
                errorMessage = e.message.toString()
            }
        }
    }
}
```

MainViewModel class code:

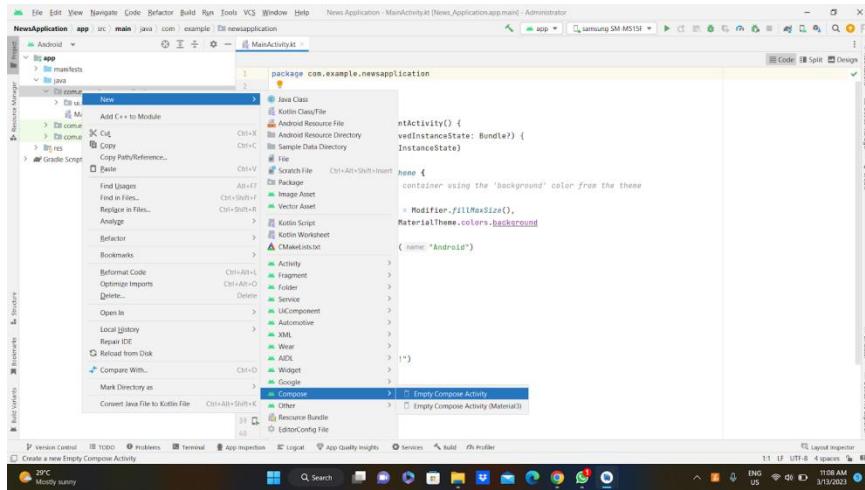
<https://github.com/smarterinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/MainViewModel.kt>

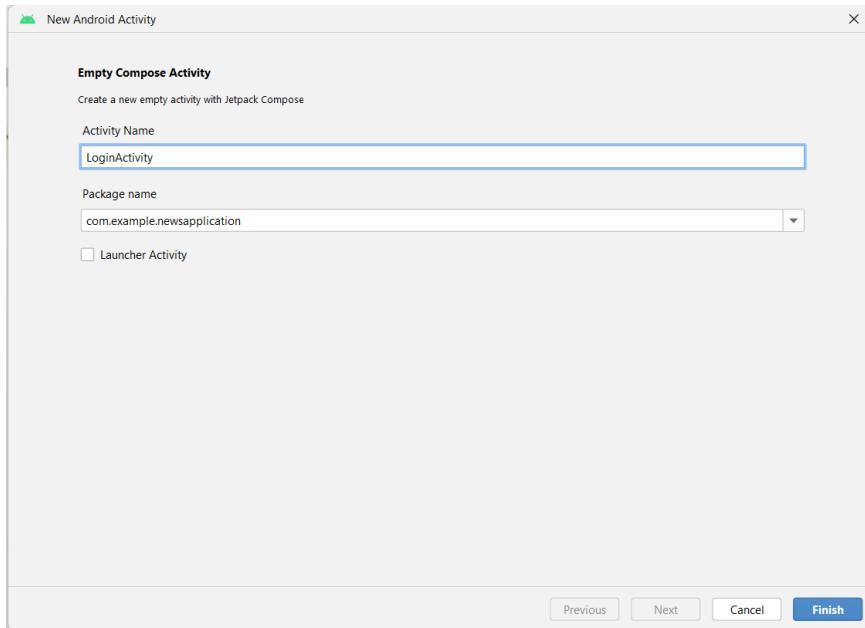
Building Application UI And Connecting To Database

This milestone explains about building application UI and connecting to database.

Creating LoginActivity.Kt With Database

Creating LoginActivity.kt with database





Database connection in LoginActivity.kt

```
package com.example.newsheadlines

import ...

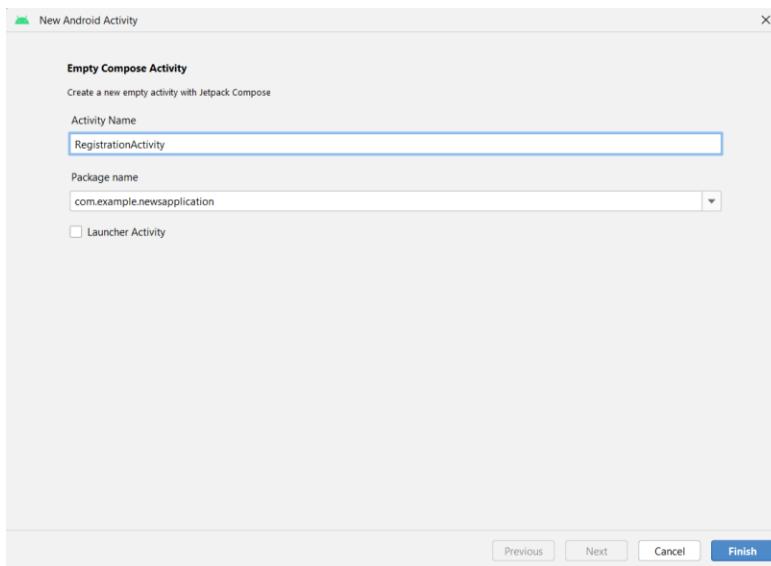
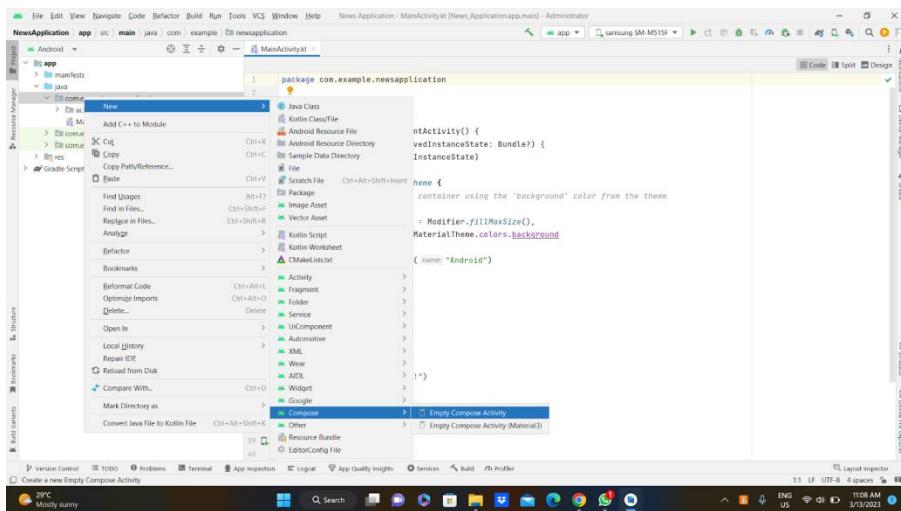
class LoginActivity : ComponentActivity() {
    private lateinit var databaseHelper: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper(context: this)
        setContent {
            LoginScreen(context: this, databaseHelper)
        }
    }
    @Composable
    fun LoginScreen(context: Context, databaseHelper: UserDatabaseHelper) {
        var username by remember { mutableStateOf(value: "") }
        var password by remember { mutableStateOf(value: "") }
        var error by remember { mutableStateOf(value: "") }
    }
}
```

Complete code in below link

<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/LoginActivity.kt>

Creating RegistrationActivity.Kt With Database

Creating RegistrationActivity.kt with database



Database connection in RegistrationActivity.kt

```
package com.example.newsheadlines

import ...

class RegistrationActivity : ComponentActivity() {
    private lateinit var databaseHelper: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper(context: this)
        setContent {
            RegistrationScreen(context: this, databaseHelper)
        }
    }
}

@Composable
fun RegistrationScreen(context: Context, databaseHelper: UserDatabaseHelper) {
    var username by remember { mutableStateOf(value: "") }
    var password by remember { mutableStateOf(value: "") }
    var email by remember { mutableStateOf(value: "") }
    var error by remember { mutableStateOf(value: "") }

    Column {
        ...
    }
}
```

Complete code in below link:

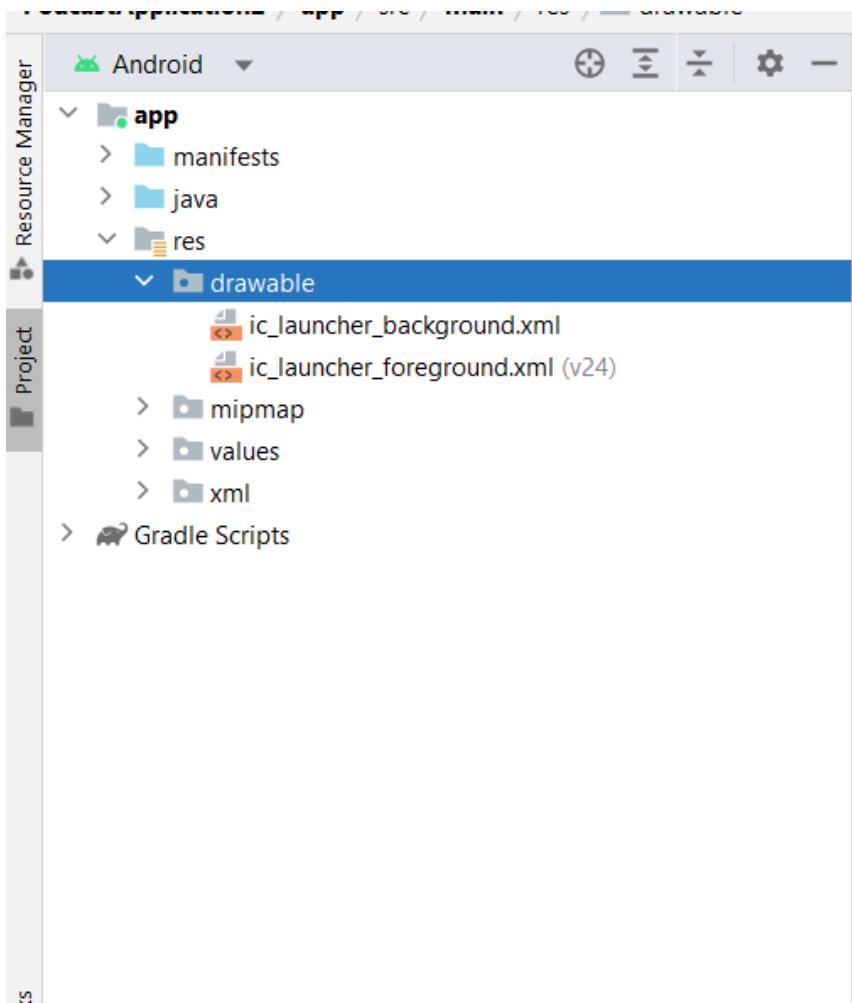
<https://github.com/smartinternz02/NewsHeadlines/tree/main/app/src/main/java/com/example/newsheadlines/RegistrationActivity.kt>

Creating Mainpage.Kt File

Creating Mainpage.kt file

In Mainpage.kt file the main application is developed

- Before creating UI we need to add some images in drawables which are in res



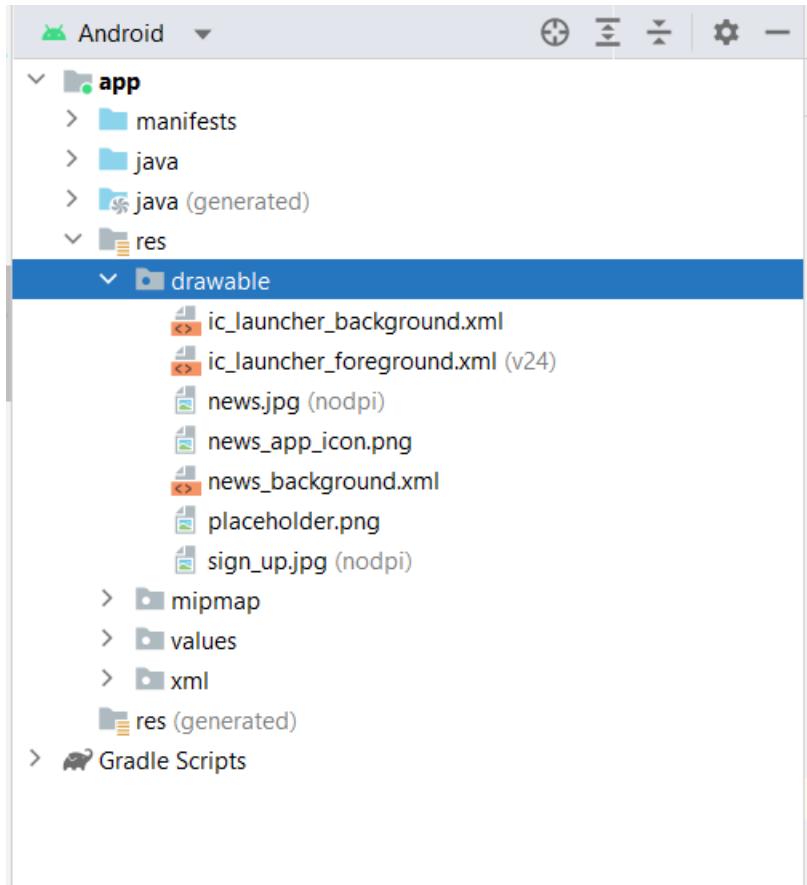
Download the required drawable from the code:

<https://github.com/smartinternz02/NewsHeadlines/tree/master/app/src/main/res/drawable>

Download the nodpi images from drawablenodpi :

<https://github.com/smartinternz02/NewsHeadlines/tree/master/app/src/main/res/drawable-nodpi>

Required drawables



After add all this we need to create the UI in MainActivity.kt file

MainActivity.kt file

Complete MainActivity.kt code:

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/MainPage.kt>

Linking MainActivity with DisplayNews.kt

```

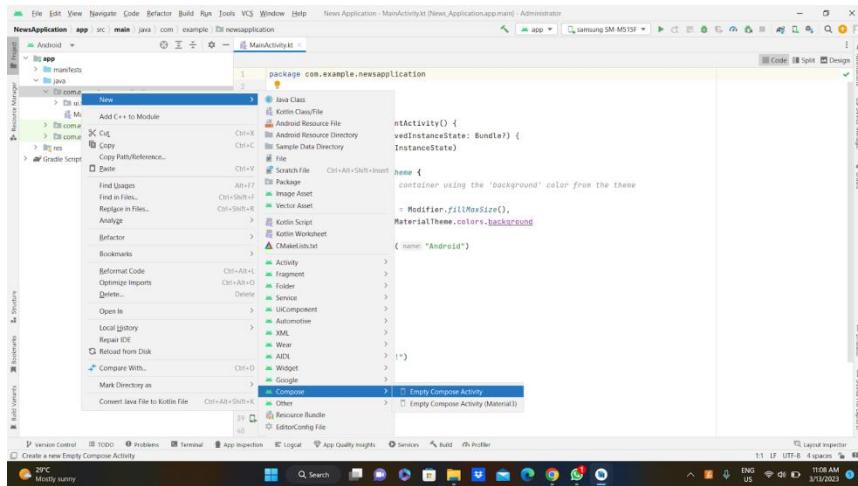
        modifier = Modifier
            .fillMaxHeight()
            .weight(0.3f)
    }

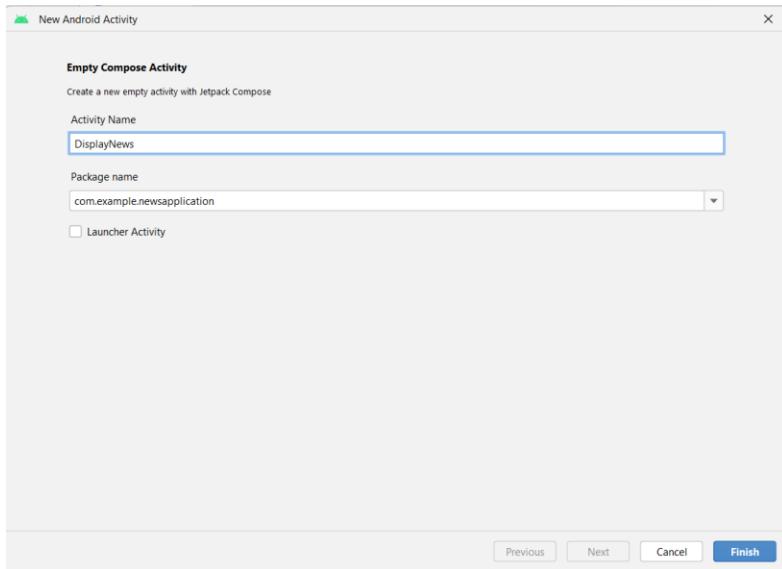
    Column(
        verticalArrangement = Arrangement.Center,
        modifier = Modifier
            .padding(4.dp)
            .fillMaxHeight()
            .weight(0.8f)
            .background(Color.Gray)
            .padding(20.dp)
            .selectable(selected: true, enabled: true, role: null,
                onClick = {
                    Log.i( tag: "test123abc", msg: "MovieItem: $index/n${movie.description}")
                    context.startActivity(
                        Intent(context, DisplayNews::class.java)
                            .setFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
                            .putExtra(name: "desk", movie.description.toString())
                            .putExtra(name: "urlToImage", movie.urlToImage)
                            .putExtra(name: "title", movie.title)
                    )
                }
            )
    ) { this:ColumnScope
}

```

Creating DisplayNews.Kt File

Creating DisplayNews.kt file





```

class DisplayNews : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            NewsHeadlinesTheme {
                // A surface container using the 'background' color from the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background
                ) {
                    var desk = getIntent().getStringExtra(name: "desk")
                    var title = getIntent().getStringExtra(name: "title")
                    var urlImage = getIntent().getStringExtra(name: "urlToImage")
                    Log.i(tag: "test123abc", msg: "MovieItem: $desk")

                    Column(modifier.background(Color.Gray).padding(20.dp), horizontalAlignment = Alignment.CenterHorizontally) {
                        Text(text = """$title, fontSize = 32.sp)
                        HtmlText(html = desk.toString())
                        /* AsyncImage(
                            model = "https://example.com/image.jpg",
                            contentDescription = "Translated description of what the image contains"
                        )*/
                        Image(
                            painter = rememberImagePainter(urlImage),
                            contentDescription = "My content description",
                        )
                    }
                    // Greeting(desk.toString())
                }
            }
        }
    }
}

```

Complete DisplayNews.kt code:

<https://github.com/smartinternz02/NewsHeadlines/blob/main/app/src/main/java/com/example/newsheadlines/DisplayNews.kt>

Modifying AndroidManifest.Xml

Modifying AndroidManifest.xml

The screenshot shows the Android Studio interface with the 'AndroidManifest.xml' file open in the main editor window. The code editor displays the XML manifest with various activity definitions. The bottom status bar indicates 'Failed to start monitoring R23NBZVAKQZ (12 minutes ago)'.

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:datasync="true"
        android:databackupCount="1000"
        android:databackupRules="<rules><rule><include>*</include></rule></rules>"
        android:icon="@drawable/news_app_icon"
        android:supportRtl="true"
        android:theme="@style/Theme.NewsHeadlines"
        tools:targetApi="31">

        <activity
            android:name=".DisplayNews"
            android:exported="false"
            android:label="DisplayNews"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".RegistrationActivity"
            android:exported="false"
            android:label="RegistrationActivity"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".MainActivity"
            android:exported="false"
            android:label="MainActivity"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".MainPage"
            android:exported="true"
            android:label="News Headlines"
            android:theme="@style/Theme.NewsHeadlines">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

When we run the app we will get the `MainActivity.kt` file as our first screen , but we want `LoginActivity.kt` , So we need to change in `AndroidManifest.xml`.

The screenshot shows the Android Studio code editor with the 'AndroidManifest.xml' file open. A specific line of code, `android:label="News Headlines"`, has been highlighted with a yellow background. This indicates that the developer is currently focused on modifying the intent filter for the `MainPage` activity.

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:datasync="true"
        android:databackupCount="1000"
        android:databackupRules="<rules><rule><include>*</include></rule></rules>"
        android:icon="@drawable/news_app_icon"
        android:supportRtl="true"
        android:theme="@style/Theme.NewsHeadlines"
        tools:targetApi="31">

        <activity
            android:name=".DisplayNews"
            android:exported="false"
            android:label="DisplayNews"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".RegistrationActivity"
            android:exported="false"
            android:label="RegistrationActivity"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".LoginActivity"
            android:exported="false"
            android:label="LoginActivity"
            android:theme="@style/Theme.NewsHeadlines" />

        <activity
            android:name=".MainPage"
            android:exported="true"
            android:label="News Headlines"
            android:theme="@style/Theme.NewsHeadlines">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

Changed AndroidManifest.xml.

```
1<manifest xmlns:android="http://schemas.android.com/apk/res/android">
2    <uses-sdk android:minSdkVersion="11" android:targetSdkVersion="17" />
3
4    <application
5        android:allowBackup="true"
6        android:icon="@drawable/ic_launcher"
7        android:label="@string/app_name"
8        android:theme="@style/Theme.AppCompat">
9
10        <activity
11            android:name=".DisplayNews"
12            android:exported="false"
13            android:label="@string/news_headlines"
14            android:theme="@style/Theme.NewsHeadlines" />
15
16        <activity
17            android:name=".RegistrationActivity"
18            android:exported="false"
19            android:label="@string/registration_activity"
20            android:theme="@style/Theme.NewsHeadlines" />
21
22        <activity
23            android:name=".MainPage"
24            android:exported="false"
25            android:label="@string/title_activity_main_page"
26            android:theme="@style/Theme.NewsHeadlines" />
27
28        <activity
29            android:name=".LoginActivity"
30            android:exported="true"
31            android:label="News Headlines"
32            android:theme="@style/Theme.NewsHeadlines">
33            <intent-filter>
34                <action android:name="android.intent.action.MAIN" />
35
36                <category android:name="android.intent.category.LAUNCHER" />
37            </intent-filter>
38        </activity>
39    </application>
40
41</manifest>
```

Complete code is given below:

<https://github.com/smartinternz02/NewsHeadlines/blob/master/app/src/main/AndroidManifest.xml>

Running The Application

This milestone explains about Running the application.

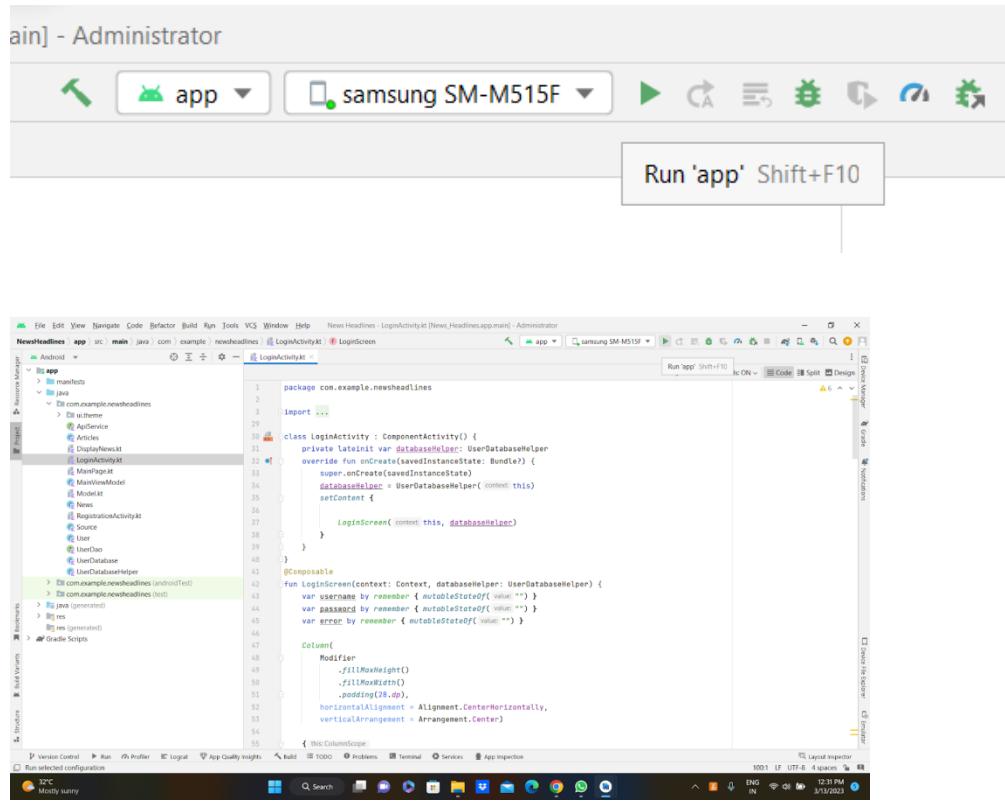
Run Apps On A Hardware Device

Run apps on a hardware device

<https://developer.android.com/studio/run/device>

Run The Application In Mobile

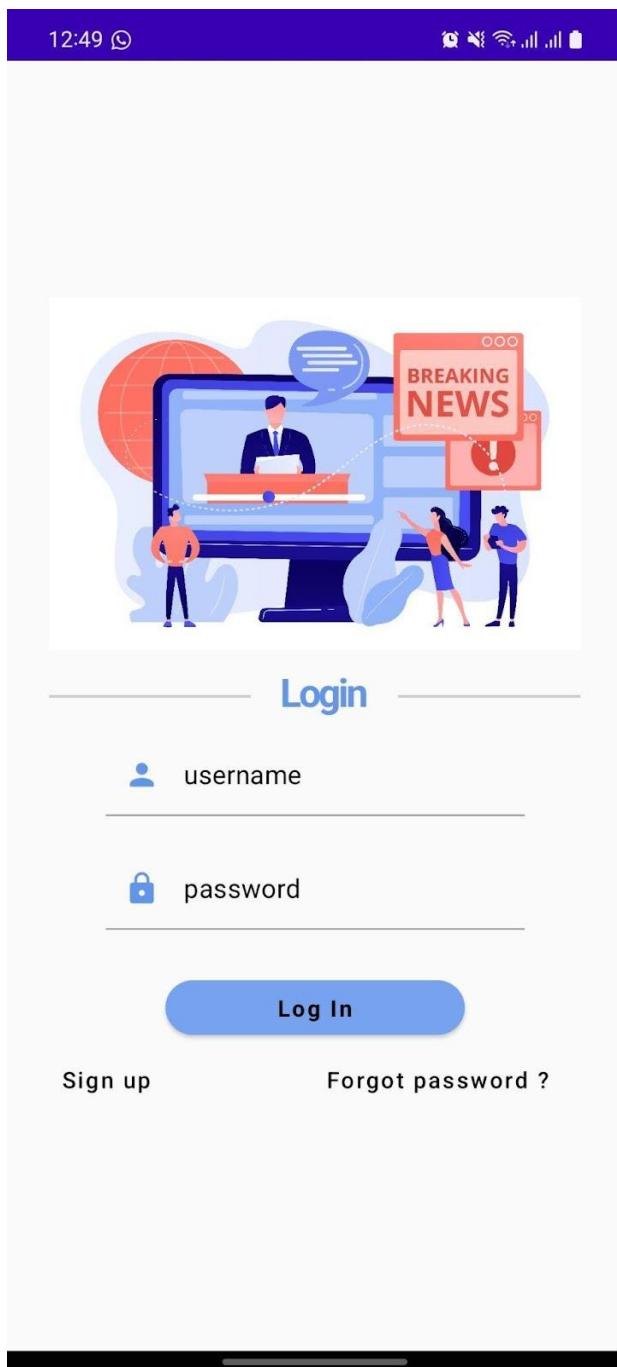
Run the application in Mobile



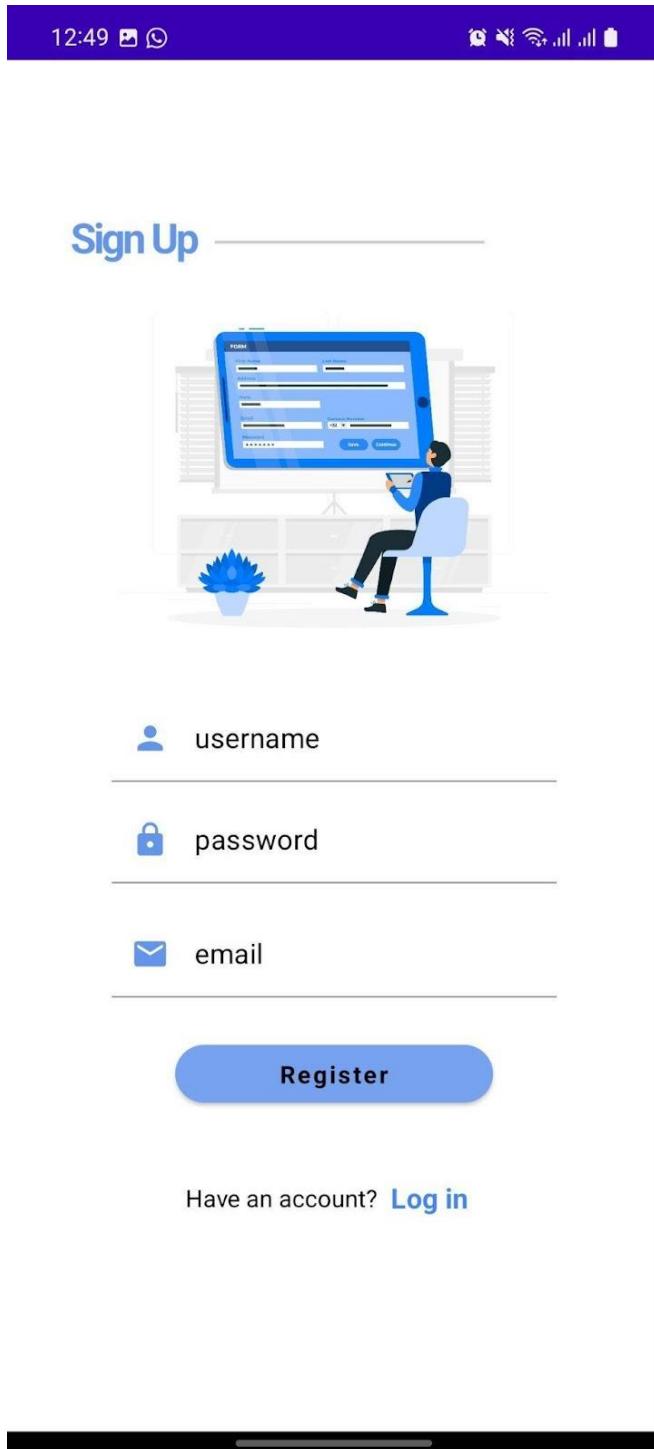
Complete Project Link:
<https://github.com/smartzinternz02/NewsHeadlines>

Final Output of the Application :

Login Page:



Register Page :



Main News Headlines Page :

12:49 ☰ ⓘ

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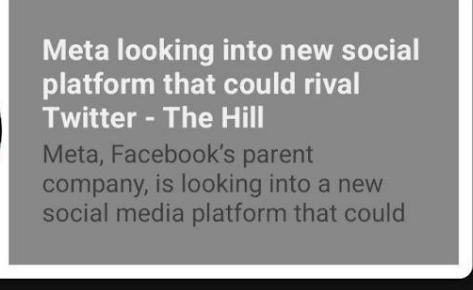
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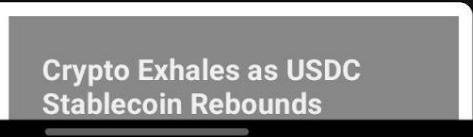
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Display News Page :

12:49



Top Crypto Trader Issues Bitcoin Warning, Says BTC Flashing Vibes of March 2020 Meltdown - The Daily Hodl

A closely followed crypto trader is issuing an alert to Bitcoin (BTC) holders, saying that the king crypto's current market structure looks similar to its price action prior to a deep plunge about three years ago.

