

Demo

RandomUserApp



Korak 1

U AndroidManifest.xml dodati prije <application> tag-a:

<uses-permission android:name="android.permission.INTERNET" />

Dodati Retrofit i Gson dependencies u build.gradle (Module: app)

```
implementation "com.squareup.retrofit2:retrofit:2.11.0"
```

```
implementation "com.squareup.retrofit2:converter-gson:2.11.0"
```

```
// coroutines
```

```
implementation "org.jetbrains.kotlinx:kotlinx-coroutines-android:1.8.1"
```

Random User API

/v2/randomuser **GET**

<https://api.api-ninjas.com/v2/randomuser>

Returns fake random user profiles. Supports customizable fields, filtering, and localization.

Parameters

count optional

Number of users to generate (1-30). Default: 10

gender optional

Filter by gender: , , , or . Default:

Sample Response

JSON

```
1 {
2   "data": [
3     {
4       "id": "ca91be7d-590d-487d-890e-5fce1230e71e",
5       "username": "bayers",
6       "password": "J!bBb0WS@h7D",
7       "email": "eric80@example.com",
8       "name": "Renee Hodges",
9       "first_name": "Anna",
10      "last_name": "Boyd",
11      "full_name": "Christine Molina",
12      "prefix": "Ms.",
13      "suffix": "PhD",
14      "phone": "(648)309-6667x7350",
15      "cell": "980.638.1668x1484",
16      "address": "953 Everett Locks Apt. 407, Paulsta",
17      "street_address": "61011 Adam Ville Apt. 459",
18      "city": "West Justinborough",
19      "state": "Louisiana",
20      "postal_code": "55582",
21      "country": "Macao",
22      "latitude": 26.057296,
23      "longitude": -29.357945,
24      "timezone": "Europe/Simferopol",
25      "dob": "1941-12-06",
26      "age": 88,
27      "gender": "nonbinary",
28      "iob": "Advertising art director",
```

Random User API

<https://api.api-ninjas.com/v2/randomuser?count=2>

endpoint

Base URL

query

/v2/randomuser

GET

<https://api.api-ninjas.com/v2/randomuser>

Returns fake random user profiles. Supports customizable fields, filtering, and localization.

Parameters

count optional

Number of users to generate (1-30). Default: 10

gender optional

Filter by gender: "male", "female", "nonbinary", or "any". Default: "any"

Headers

X-API-Key required

API Key associated with your account.

Korak 2

- Kreiranja data class za jednog korisnika samo za sljedeća polja
 - id
 - username
 - email
 - full_name
 - country
 - picture

model/RandomUser.kt

```
import com.google.gson.annotations.SerializedName

data class RandomUser(
    val id: String,
    @SerializedName(value = "full_name")
    val name: String,
    val age: Int,
    val country: String,
    val picture: String
)
```

Korak 3

Unutar network paketa
kreirati
RandomUserApi.kt

```
package com.example.randomuser.network

import com.example.randomuser.model.RandomUser
import retrofit2.http.GET
import retrofit2.http.Header
import retrofit2.http.Query

interface RandomUserApi{

    @GET( value = "v2/randomuser")
    suspend fun getRandomUsers(
        @Header( value = "X-API-Key") apiKey: String,
        @Query( value = "count") count: Int
    ) : List<RandomUser>
}
```

Korak 4

Unutar network paketa
kreirati RetrofitClient

```
object RetrofitClient {  
  
    private const val BASE_URL = "https://api.api-ninjas.com/" 1 Usage  
    // 1) Logging interceptor  
    private val logging = HttpLoggingInterceptor().apply { 1 Usage  
        level = HttpLoggingInterceptor.Level.BODY  
    }  
    // 2) OkHttpClient  
    private val client = OkHttpClient.Builder() 1 Usage  
        .addInterceptor( interceptor = logging)  
        .build()  
    // 3) Retrofit instance  
    private val retrofit = Retrofit.Builder() 1 Usage  
        .baseUrl( baseUrl = BASE_URL)  
        .client(client)  
        .addConverterFactory( factory = GsonConverterFactory.create())  
        .build()  
    // 4) API (interface implementation)  
    val api: RandomUserApi = retrofit.create(RandomUserApi::class.java)  
}
```

Korak 5. Kreiranje ViewModel-a koji poziva API

Dodati u dependencies

implementation "androidx.lifecycle:lifecycle-viewmodel-ktx:2.8.6"

Unutar ui paketa, kreirati [RandomUserViewModel.kt](#) i dodati

```
data class RandomUserUiState (  
    val isLoading: Boolean = false,  
    val users: List<RandomUser> = emptyList(),  
    val errorMessage: String? = null  
)
```


Korak 5. Kreiranje ViewModel-a koji poziva API

Unutar ui paketa, kreirati [RandomUserViewModel.kt](#) i dodati

```
class RandomUserViewModel : ViewModel(){  
  
    private val apiKey = "2R4Hb18uF12ySyHd~rj5GZA==wLTqCc8JrdzGcP0D\n" 1  
  
    private val _uiState = MutableStateFlow( value = RandomUserUiState())  
    val uiState: StateFlow<RandomUserUiState> = _uiState
```

Korak 5. Kreiranje ViewModel-a koji poziva API

- **viewModelScope.launch** po defaultu radi na Main thread-u, ali ne blokira UI.
- **suspend** funkcije ne blokiraju thread, samo pauziraju coroutine dok ne stigne rezultat.
- **Retrofit + OkHttp** automatski izvršavaju network pozive na background thread-ovima (OkHttp Dispatcher).

```
fun loadRandomUsers(count: Int = 2){ 1Usage
    _uiState.value = _uiState.value.copy(
        isLoading = true,
        errorMessage = null
    )

    viewModelScope.launch {
        try {
            val users = RetrofitClient.api.getRandomUsers(
                apiKey = apiKey,
                count = count
            )

            _uiState.value = _uiState.value.copy(
                isLoading = false,
                users,
                errorMessage = null
            )
        } catch (e: Exception){
            _uiState.value = _uiState.value.copy(
                isLoading = false,
                errorMessage = "Greška: ${e.message}"
            )
        }
    }
}
```

Korak 6: Kreiranje UI-a

Unutar MainActivity.kt

```
setContent {  
    val viewModel = remember { RandomUserViewModel() }  
    val uiState by viewModel.uiState.collectAsState()  
  
    RandomUserScreen(  
        uiState = uiState,  
        onLoadClicked = {  
            viewModel.loadRandomUsers(count = 2)  
        }  
    )  
}
```

Korak 6: Kreiranje UI-a

Unutar MainActivity.kt

```
@Composable 1 Usage
fun RandomUserScreen(
    uiState: RandomUserUiState,
    onLoadClicked: () -> Unit) {
    Column(modifier = Modifier.fillMaxSize().padding(all = 16.dp)){
        Button(onClick = onLoadClicked) {Text(text = "Load users")}
        Spacer(modifier = Modifier.height(height = 16.dp))
        Text(text = "Users count: ${uiState.users.size}")

        Spacer(modifier = Modifier.height(height = 16.dp))
        when{
            uiState.isLoading -> {
                Text(text = "Loading...")
            }
            uiState.errorMessage != null -> {
                Text(text = "Error: ${uiState.errorMessage}")
            }
            else -> {
                uiState.users.forEach { user ->
                    Text(text = "${user.name} (${user.country})")
                    Spacer(modifier = Modifier.height(height = 8.dp))
                }
            }
        }
    }
}
```

Korak 7: Ubacivanje slika preko Coil

Dodati u dependencies **implementation "io.coil-kt:coil-compose:2.7.0"**

Dodati u RandomUserScreen.kt

```
import androidx.compose.foundation.shape.CircleShape  
import androidx.compose.ui.draw.clip
```

```
AsyncImage(  
    model = user.picture,  
    contentDescription = "Profile picture of ${user.name}",  
    modifier = Modifier  
        .size(120.dp)  
        .clip(CircleShape)  
)
```