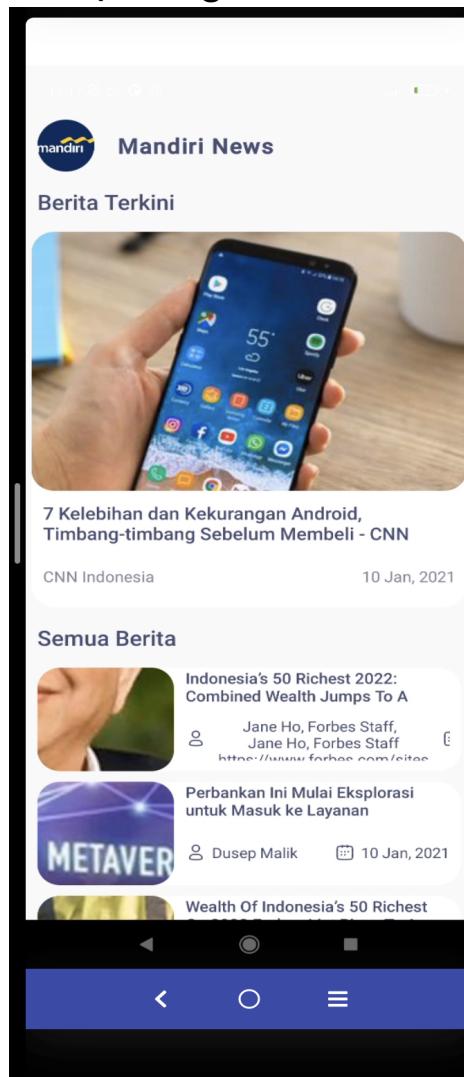




FINAL TASK MOBILE APPS DEVELOPER - BANK MANDIRI

Challenge

- **Membuat Aplikasi Mobile Android** yang menunjukkan list berita menggunakan API dari <https://newsapi.org/>
- **Tampilkan Bagian Headline Berita dan List Berita** dengan menerapkan Endless/Infinite Scrolling
- Contoh tampilan seperti gambar dibawah ini



Tools need to use

- Android Studio Dolphin 2021.3.1 Patch Versi terbaru Desember 2022
- JDK 18.0
- Gradle 7.2

Prerequisite & Hints

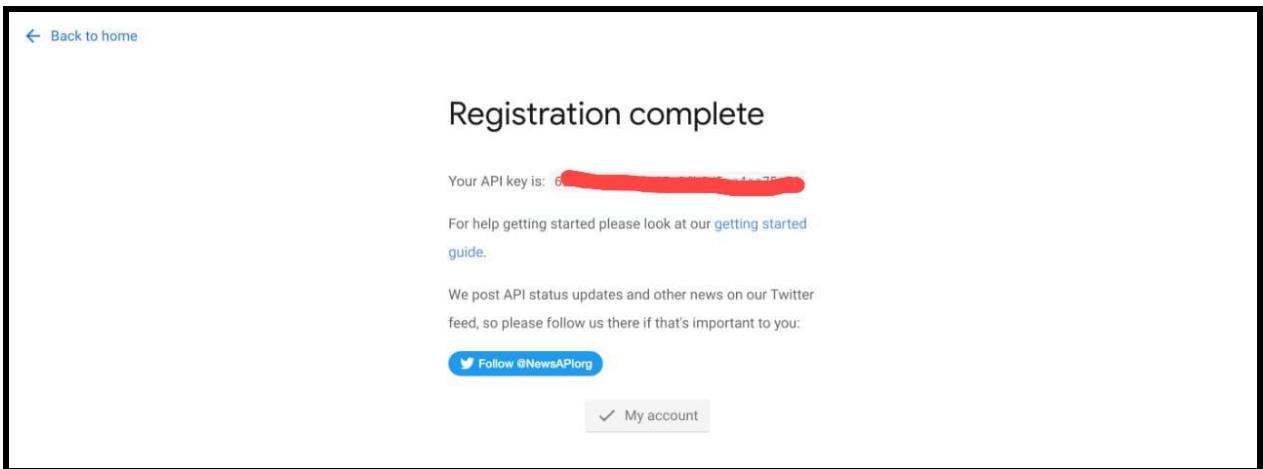
- Pastikan sudah **menginstal Android Studio**. Jika belum install maka instal pada link berikut ini
<https://developer.android.com/studio/install>
- Kemudian **dapatkan API Key** dari News API. Dapat diakses melalui link berikut <https://newsapi.org/>
- **Langkah untuk mendapatkan API**, sebagai berikut
 1. Masuk pada link yang tertera, kemudian klik tombol biru yang di tengah dengan label “Get API Key”, lalu buat akun

The screenshot shows the News API homepage. At the top, there are navigation links for 'Get started', 'Documentation', and 'Pricing', along with 'Login' and 'Get API key' buttons. Below the header, a sub-header reads: 'Locate articles and breaking news headlines from news sources and blogs across the web with our JSON API'. A large blue button labeled 'Get API Key →' is centered below this text. On the left, there's a sidebar with filters for 'Sort by relevance first' and date range 'from=2022-12-06&to=2022-12'. In the center, a code snippet shows a GET request to 'https://newsapi.org/v2/everything?q=tesla&from=2022-11-07&sortBy=publishedAt&apiKey=API_KEY'. To the right, a JSON response example is shown:

```
{  
  "status": "ok",  
  "totalResults": 9700,  
  "articles": [  
    {  
      "source": {  
        "id": null,  
        "name": "The Star Online"  
      },  
      "author": "Sebastian Tong, Kurt Wagner",  
      "title": "Tesla's stock price has been rising steadily since the beginning of the year, reaching a new high of $1,000 per share on Friday.",  
      "url": "https://www.thestar.com.sg/news/business/teslas-stock-price-has-been-rising-steadily-since-the-beginning-of-the-year-reaching-a-new-high-of-1000-per-share-on-friday/article/2022-12-09/1670753700000",  
      "urlToImage": "https://www.thestar.com.sg/assets/images/2022/12/09/tesla-stock-price-1670753700000.jpg",  
      "publishedAt": "2022-12-09T10:00:00Z",  
      "content": "Tesla's stock price has been rising steadily since the beginning of the year, reaching a new high of $1,000 per share on Friday. The electric vehicle manufacturer has seen significant growth in its market value over the past few months, despite some challenges in production and supply chain management. Analysts believe that Tesla's focus on sustainable energy and advanced technology is driving its success. The company's latest financial results showed strong revenue growth and improved profitability. With a market capitalization of over $1 trillion, Tesla is one of the most valuable companies in the world. However, the company faces several challenges, including regulatory issues and competition from other EV manufacturers. Despite these challenges, Tesla remains a popular investment choice for many investors who believe in its long-term potential."}  
  ]  
}
```

The JSON response includes fields for status, totalResults, and a list of articles. Each article object contains fields for source, author, title, url, urlToImage, publishedAt, and content.

- Setelah klik biru itu, akan diarahkan untuk membuat akun. Jika sudah selesai akan muncul hasil seperti gambar dibawah ini



- Kalian dapat membaca dokumentasi NewsApi disini <https://newsapi.org/docs>
 - untuk **mengambil headline** dapat menggunakan endpoint /v2/top-headlines
 - untuk List Semua Berita bisa menggunakan /v2/everything
- Setelah mendapatkan API, dari Root buka folder app/src/main/java/dev/Rakamin/newsapp/network/NewsInterface.kt
- Kemudian, isi Const API_KEY dengan API key yang sudah kalian dapatkan
- Jika kalian sudah membuat list NEWS sesuai dengan tampilan yang ditentukan. Buatlah penjelasan apa yang sudah dikerjakan
- Tulis penjelasan tersebut pada PPT yang sudah disediakan. Kalian bisa mengunduh (*download*) PPT tersebut pada file "Template PPT Task 5"
- Buatlah sebuah video penjelasan beserta demo aplikasi yang sudah kalian buat. Tuliskan link video tersebut pada slide PPT yang sudah disediakan. Perhatikan aturan link video penjelasan!