

You will start with the android program you developed to display RSS server data and modify the cardview to display like and display buttons and show the total number of likes and dislikes for each news.



See Historical Records Documenting the Pope's  
Creole Roots in New Orleans



 1  1


Earthquake Rocks Parts of Tennessee and  
Georgia



 1  0



Pope Leo the White Sox Fan: Something to  
Celebrate for Chicago's South Side



 0  4


Pope's Childhood in a Changing Chicago Tells a  
Story of Catholic America



 1  0

Attacking Trump's Tariffs, Democrats Focus on  
Small Business Struggles



 1  3

Create a table in XAMPP

+ Seçenekler

	keyy	news	pos	neg
<input type="checkbox"/>  Düzenle  Kopyala  Sil	1	abc	3	5

Write a flask server to write to pos column, neg column

And to read from it to display the values of pos and neg in android app

The following server code is for my design, your design may be different so use it as an example

```
from flask import Flask, request, jsonify
import pymysql

app = Flask(__name__)

# ✓ MySQL connection setup (no SSL)
def get_db_connection():
    return pymysql.connect(
        host='localhost',
        user='root',
        password='',
        db='raif',
        charset='utf8mb4',
        cursorclass=pymysql.cursors.DictCursor
    )

@app.route('/register_news/<title>', methods=['POST'])
def register_news(title):
    conn = get_db_connection()
    with conn.cursor() as cur:
        cur.execute("SELECT COUNT(*) AS count FROM newastat WHERE news = %s", (title,))
        exists = cur.fetchone()['count']
        if exists == 0:
            cur.execute("INSERT INTO newastat (news, pos, neg) VALUES (%s, %s, %s)", (title, 0, 0))
            conn.commit()
    conn.close()
    return jsonify({'message': 'News registered or already exists'})

# ✓ Get statistics for a news item by title
@app.route('/get_stats/<title>', methods=['GET'])
def get_stats(title):
    conn = get_db_connection()
    with conn.cursor() as cur:
        cur.execute("SELECT news, pos, neg FROM newastat WHERE news = %s", (title,))
```

```

        row = cur.fetchone()
    conn.close()
    if row:
        return jsonify(row)
    else:
        return jsonify({'error': 'News item not found'}), 404

@app.route('/thumb_up/<title>', methods=['POST'])
def thumb_up(title):
    conn = get_db_connection()
    with conn.cursor() as cur:
        # Ensure news is in the table
        cur.execute("SELECT COUNT(*) AS count FROM newastat WHERE news = %s", (title,))
        exists = cur.fetchone()['count']
        if exists == 0:
            cur.execute("INSERT INTO newastat (news, pos, neg) VALUES (%s, %s, %s)", (title, 0, 0))

        # Increment thumbs up
        cur.execute("UPDATE newastat SET pos = pos + 1 WHERE news = %s", (title,))
        conn.commit()

        # Fetch updated stats
        cur.execute("SELECT news, pos, neg FROM newastat WHERE news = %s", (title,))
        row = cur.fetchone()
    conn.close()

    return jsonify(row)

@app.route('/thumb_down/<title>', methods=['POST'])
def thumb_down(title):
    conn = get_db_connection()
    with conn.cursor() as cur:
        cur.execute("SELECT COUNT(*) AS count FROM newastat WHERE news = %s", (title,))
        exists = cur.fetchone()['count']
        if exists == 0:
            cur.execute("INSERT INTO newastat (news, pos, neg) VALUES (%s, %s, %s)", (title, 0, 0))

        cur.execute("UPDATE newastat SET neg = neg + 1 WHERE news = %s", (title,))
        conn.commit()

        cur.execute("SELECT news, pos, neg FROM newastat WHERE news = %s", (title,))
        row = cur.fetchone()
    conn.close()

    return jsonify(row)

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000, debug=True)

```

Paste here the printscreen of hopsscotch test to read the connection works

**I used curl command for the ease of use.**

**Registering news:**

```
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp % conda activate rssfeed && python3.12 database.py
Table created successfully
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp % curl -X POST "http://localhost:5005/register_news/Test%20News%20Article"
{"message":"News registered successfully"}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp %
```

Getting the news information::

```
"
{"message":"News registered successfully"}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp % curl "http://localhost:5005/get_stats/Test%20News%20Article"
{"neg":0,"pos":0}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp %
```

Testing the thumbs up endpoint:

```
{"neg":0,"pos":0}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp % curl -X POST "http://localhost:5005/thumb_up/Test%20News%20Article"
{"neg":0,"pos":1}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp %
```

Testing the thumbs down endpoint:

```
{"neg":0,"pos":1}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp % curl -X POST "http://localhost:5005/thumb_down/Test%20News%20Article"
{"neg":1,"pos":1}
(rssfeed) eren@eren-MacBook-Pro RSSReaderApp %
```

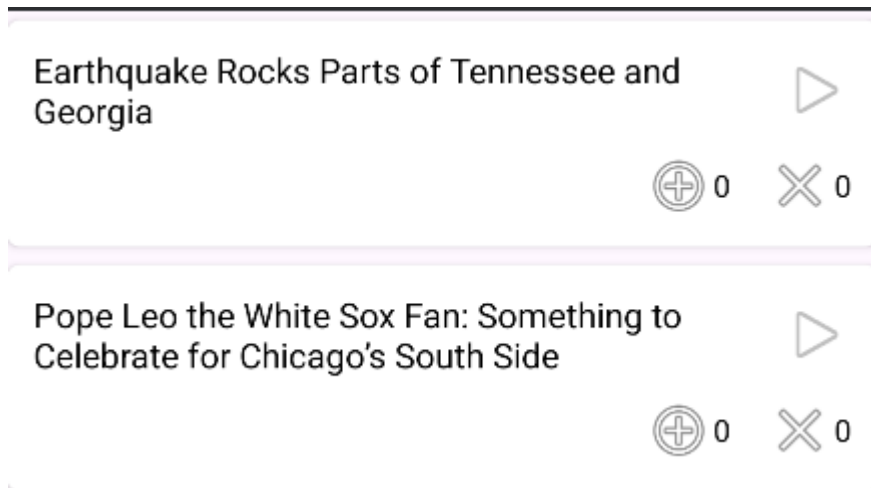
POST /register\_news/<title> - Registers a new article

GET /get\_stats/<title> - Gets current like/dislike counts

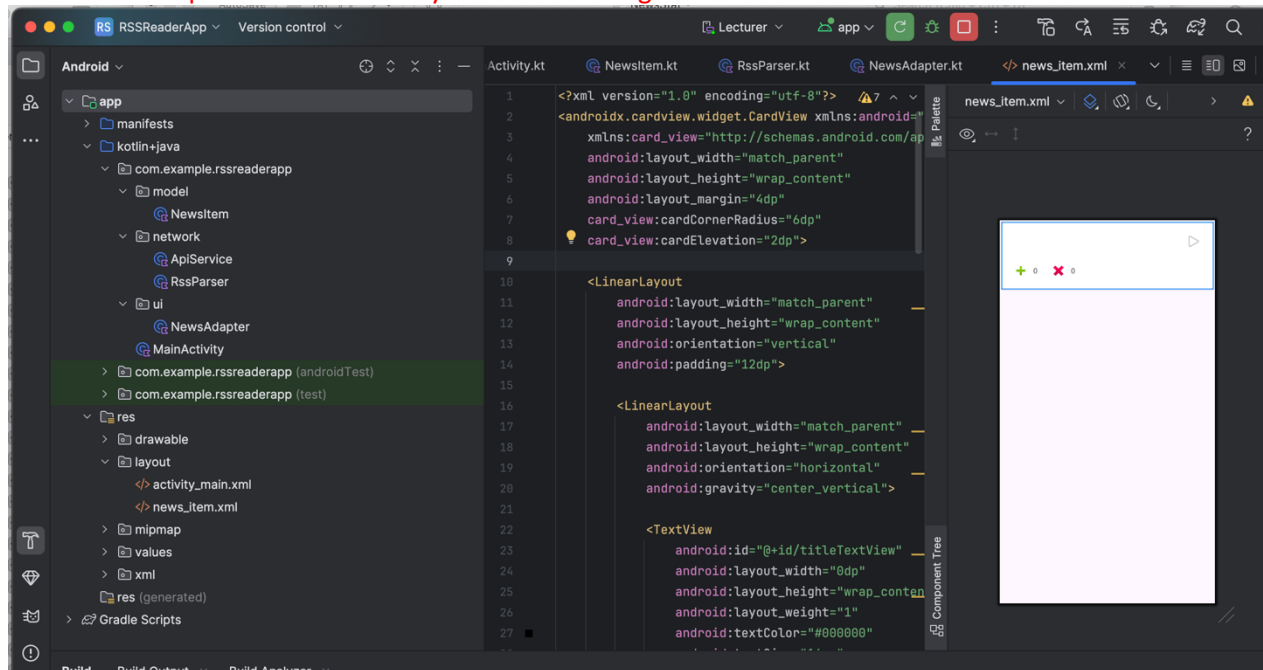
POST /thumb\_up/<title> - Adds a like

POST /thumb\_down/<title> - Adds a dislike

In your Android app, modify your layout file defined for news item (card view) to include thumbs up and thumbs down UI elements You can use any image you like



Paste here the printscreen of the layout view showing the two additional buttons



News\_itemxml code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:card_view="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="4dp"
card_view:cardCornerRadius="6dp"
card_view:cardElevation="2dp">
```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="12dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center_vertical">

        <TextView
            android:id="@+id/titleTextView"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:textColor="#000000"
            android:textSize="16sp"
            android:maxLines="2"
            android:ellipsize="end" />

        <ImageButton
            android:id="@+id/playPauseButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="@android:color/transparent"
            android:src="@android:drawable/ic_media_play"
            android:contentDescription="Play/Pause"
            android:padding="8dp" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="8dp">

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:gravity="center_vertical"
            android:layout_marginEnd="16dp">

            <ImageButton
                android:id="@+id/likeButton"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@android:color/transparent"
                android:src="@android:drawable/ic_input_add"
                android:contentDescription="Like"
                android:padding="8dp" />

            <TextView
                android:id="@+id/likesCount"
                android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:textSize="14sp"
        android:text="0" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center_vertical">

        <ImageButton
            android:id="@+id/dislikeButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="@android:color/transparent"
            android:src="@android:drawable/ic_delete"
            android:contentDescription="Dislike"
            android:padding="8dp" />

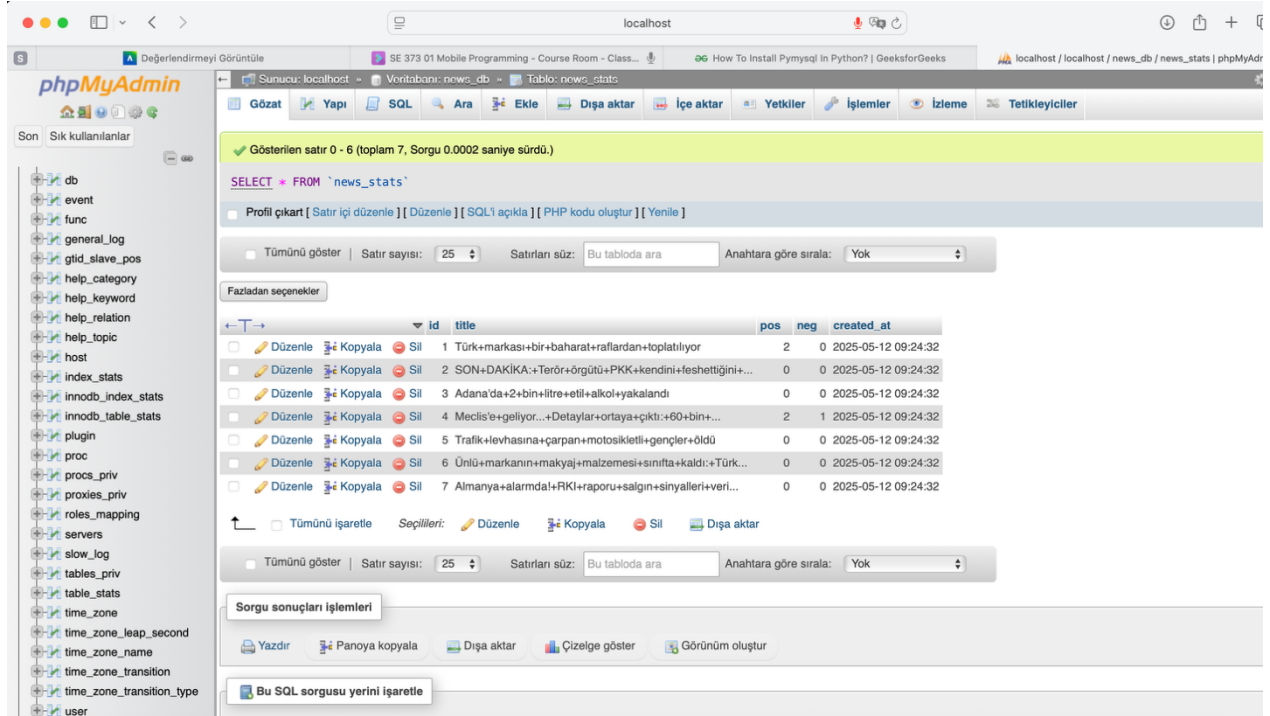
        <TextView
            android:id="@+id/dislikesCount"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="14sp"
            android:text="0" />
    </LinearLayout>
</LinearLayout>
</androidx.cardview.widget.CardView>

```

Include network\_security\_config.cml under xml folder and define it in android manifest file. You should already have internet permission in android manifest.

You need to modify news adapter kotlin class and create a new class to access the database.

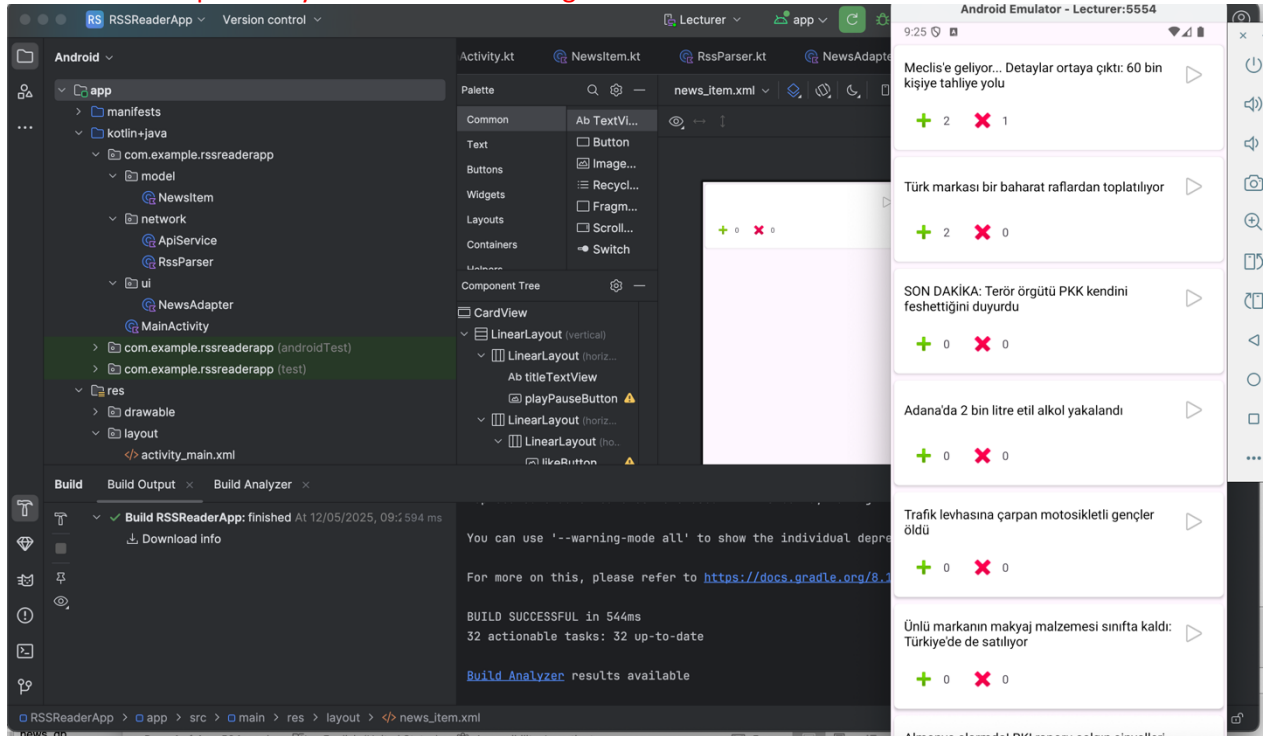
Take a screenshot of your table after marking a few ups and downs for different news



The screenshot shows the phpMyAdmin interface for a database named 'news\_db'. The 'news\_stats' table is selected, and the SQL query 'SELECT \* FROM news\_stats' is executed. The table contains 7 rows of data, each representing a news item with its title, position, and creation date. The table has columns: id, title, pos, neg, and created\_at. The data is as follows:

id	title	pos	neg	created_at
1	Türk+markası+bir+baharat+raflardan+toplatılıyor	2	0	2025-05-12 09:24:32
2	SON+DAKİKA:-Terör+örgütü+PKK+kendini+feshettiğini...	0	0	2025-05-12 09:24:32
3	Adana'da+2+bin+litre+etil+alkol+yakalandı	0	0	2025-05-12 09:24:32
4	Meclis'e+geliyor...+Detaylar+ortaya+çıkıtı:+60+bin+...	2	1	2025-05-12 09:24:32
5	Trafik+levhasına+çarpan+motosikletli+gençler+öldü	0	0	2025-05-12 09:24:32
6	Ünlü+markanın+makyaj+malzemesi+sınıfta+kaldı:-Türk...	0	0	2025-05-12 09:24:32
7	Almanya+alarmda!+RKI+raporu+salgın+sinyalleri+veril...	0	0	2025-05-12 09:24:32

Take a screenshot of your emulator showing the same numbers for news



The screenshot shows an Android emulator running the RSSReaderApp. The app displays a list of news items, each with a title, a score (pos/neg), and a play button. The data is as follows:

News Item	pos	neg
Meclis'e geliyor... Detaylar ortaya çıktı: 60 bin kişiye tahliye yolu	2	1
Türk markası bir baharat raflardan toplatılıyor	2	0
SON DAKİKA: Terör örgütü PKK kendini feshettiğini duyurdu	0	0
Adana'da 2 bin litre etil alkol yakalandı	0	0
Trafik levhasına çarpan motosikletli gençler öldü	0	0
Ünlü markanın makyaj malzemesi sınıfta kaldı: Türkiye'de de satılıyor	0	0
Almanya alarmda! RKI raporu salgın sinyalleri veriyor	0	0