

NEWS HEADLINES

INTRODUCTION

1.1 OVERVIEW

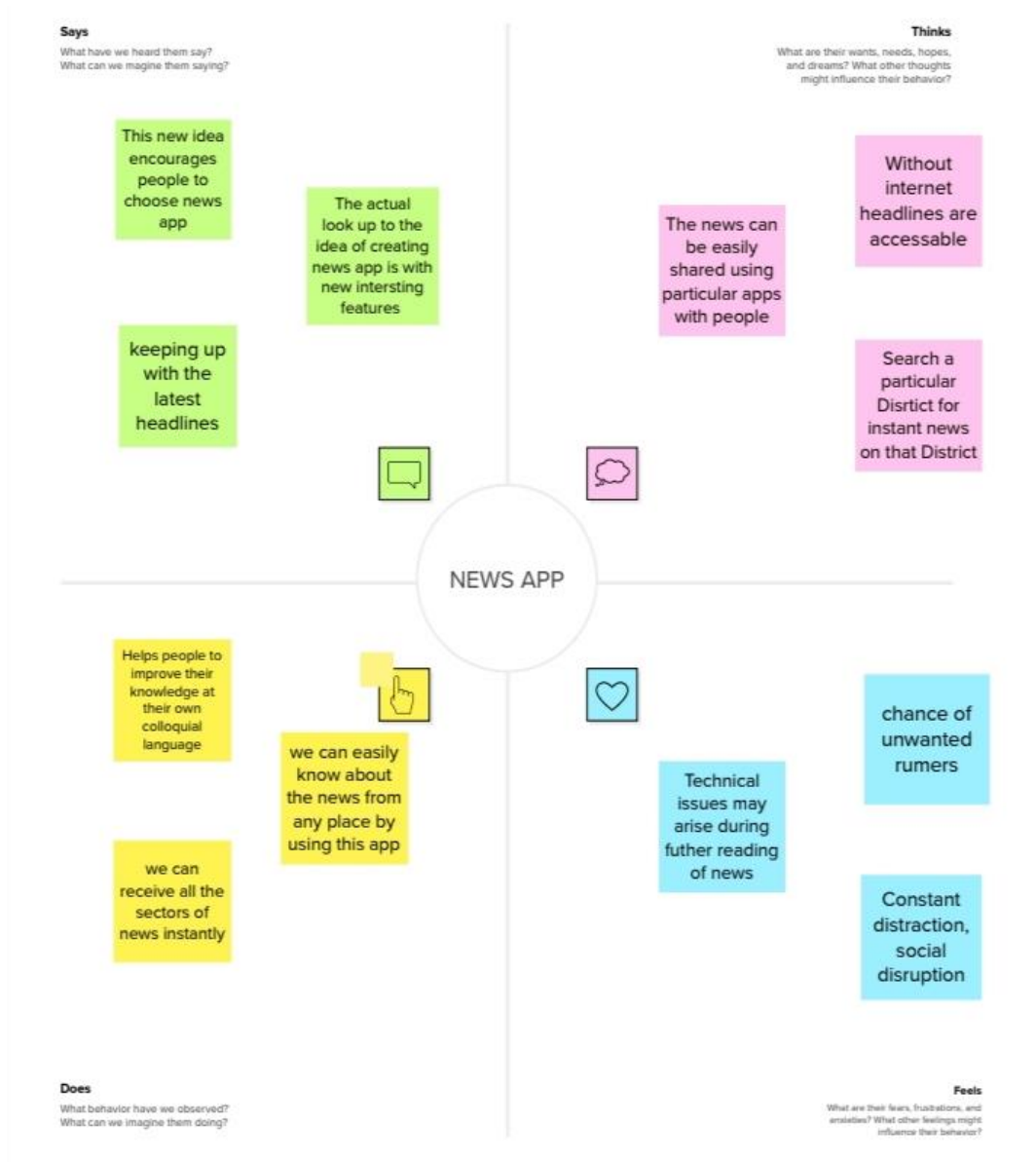
The app's main feature is displaying a list of news articles, each with a title, image, and brief description. Users can scroll through the list of articles and tap on an article to view more details. The app uses the Jetpack Compose UI toolkit to build the UI and it uses the coil library to load images.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

1.2 PURPOSE

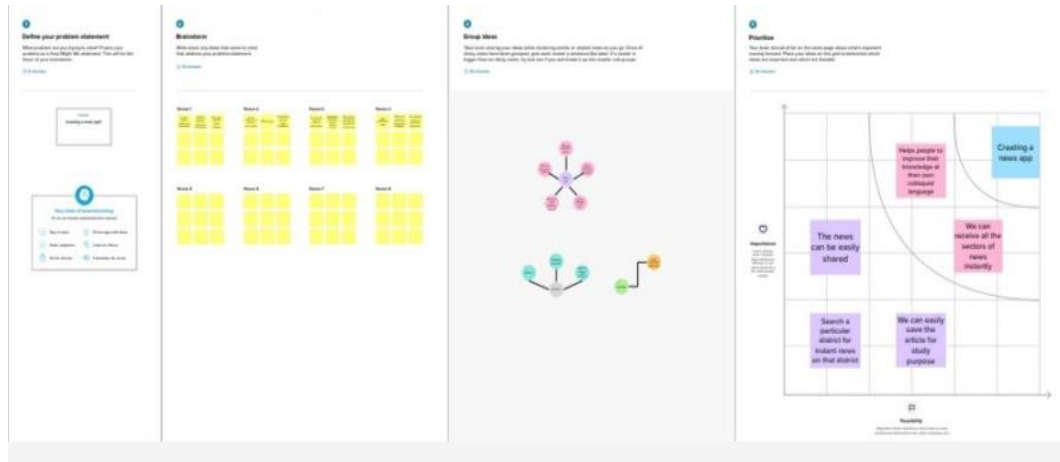
A news application is a big interactive database that tells a news story. Think of it like you would any other piece of journalism. It just uses software instead of words and pictures.

PROBLEM DEFINITION & DESIGN THINKING

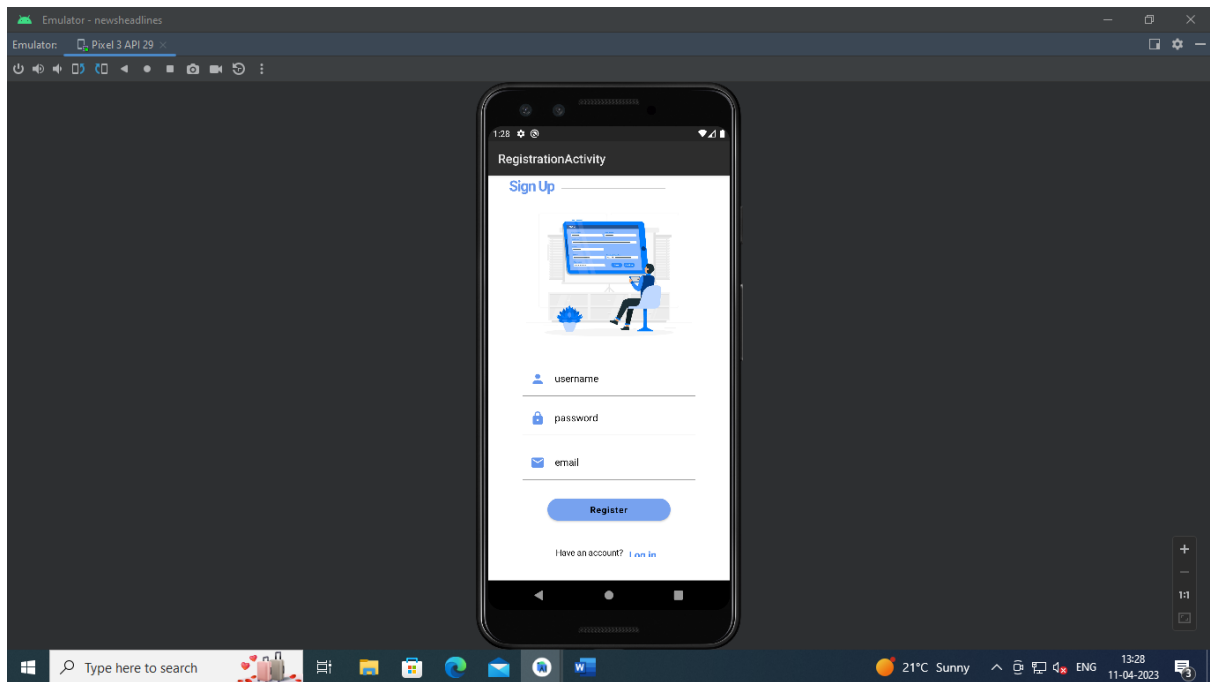
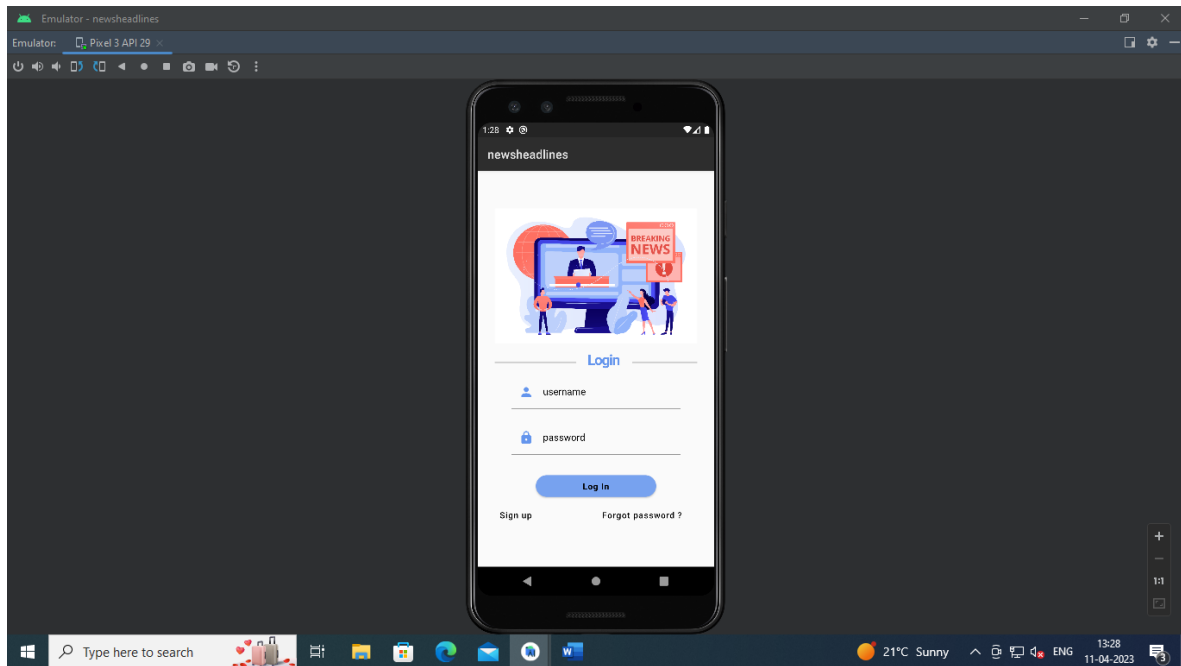
2.1 EMPATHY MAP

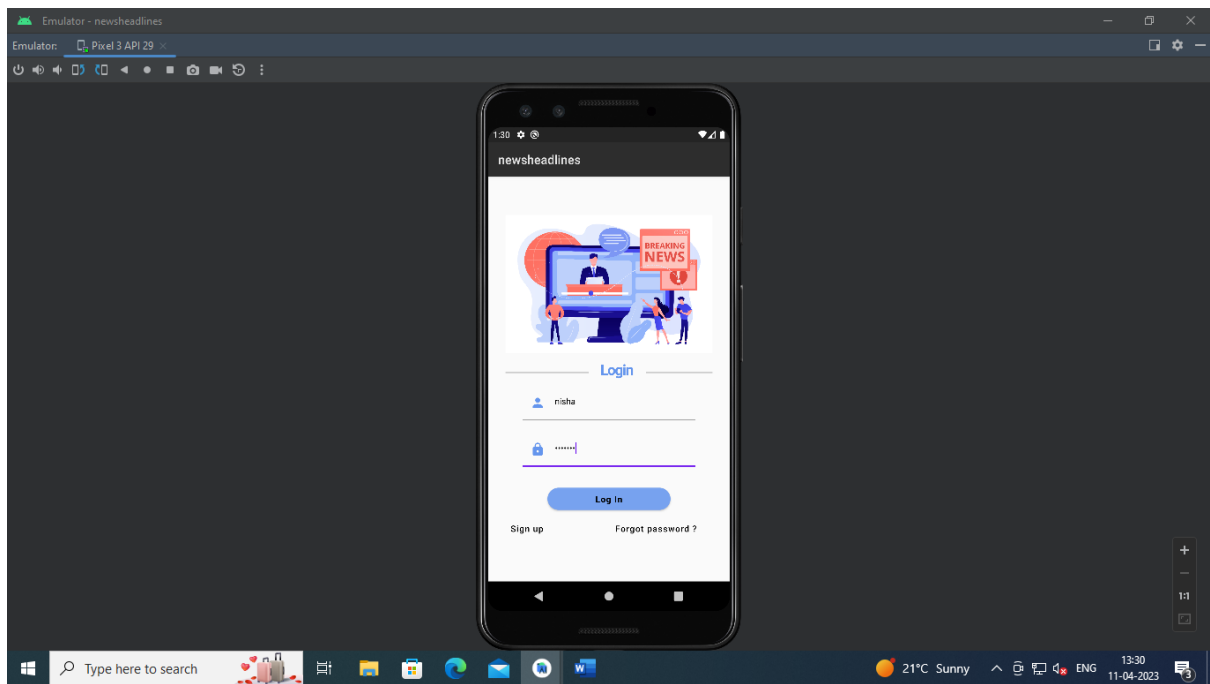
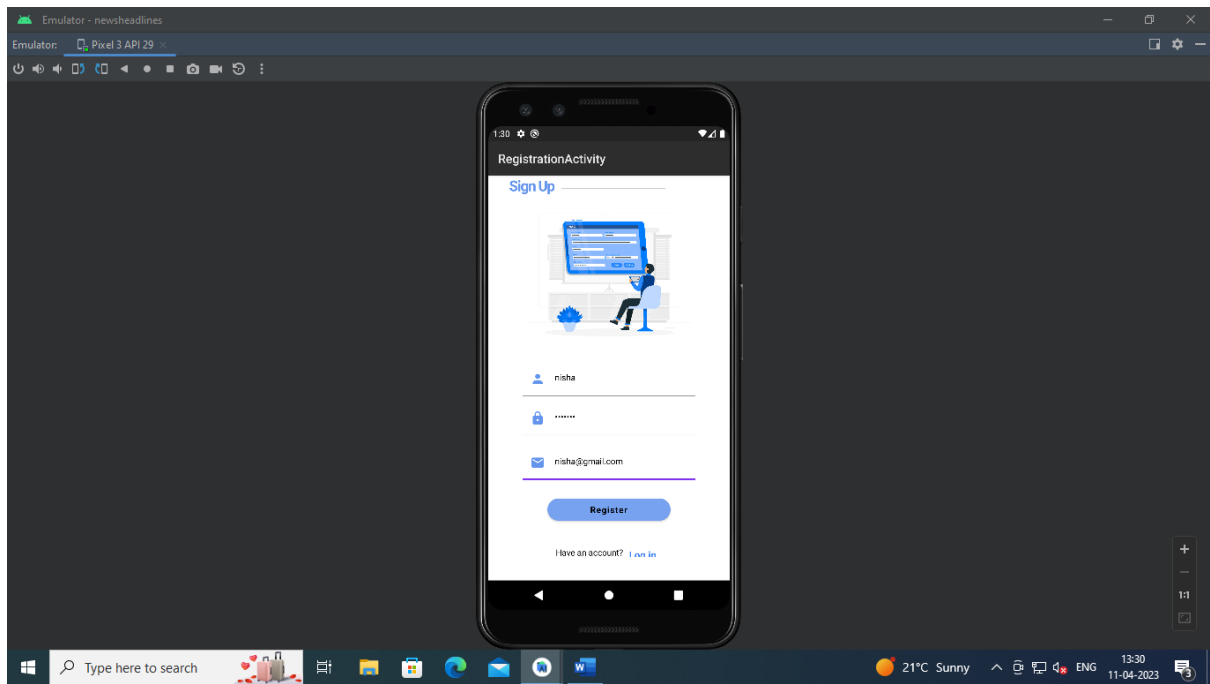


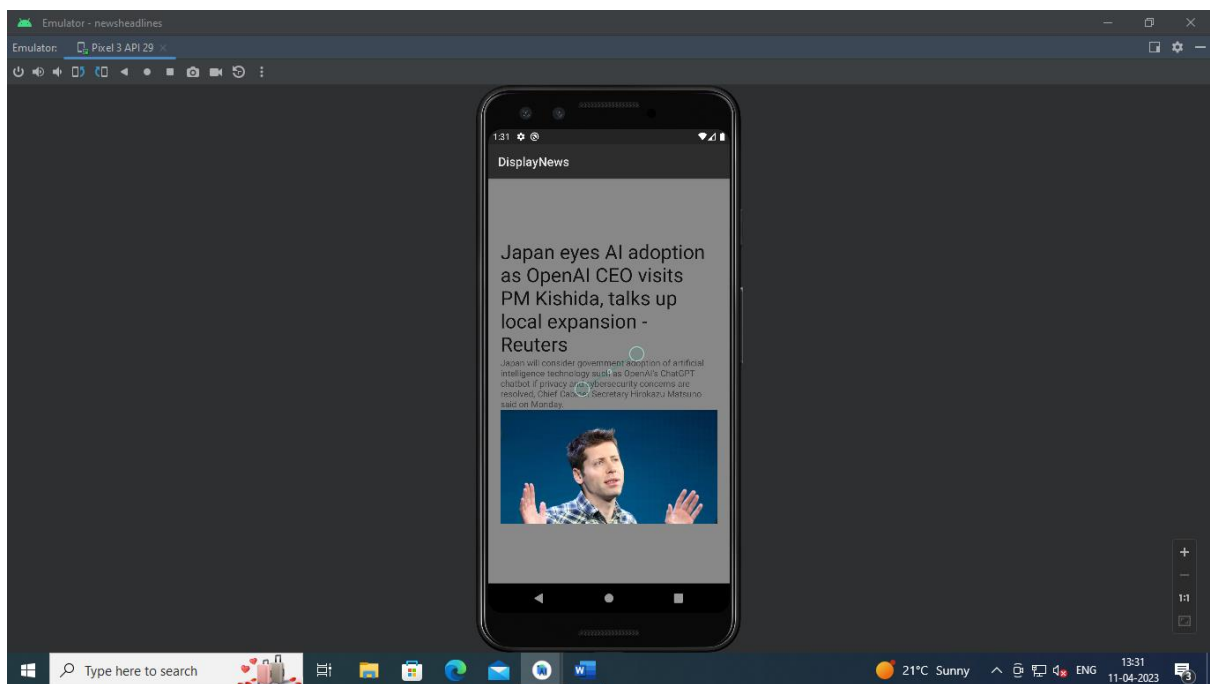
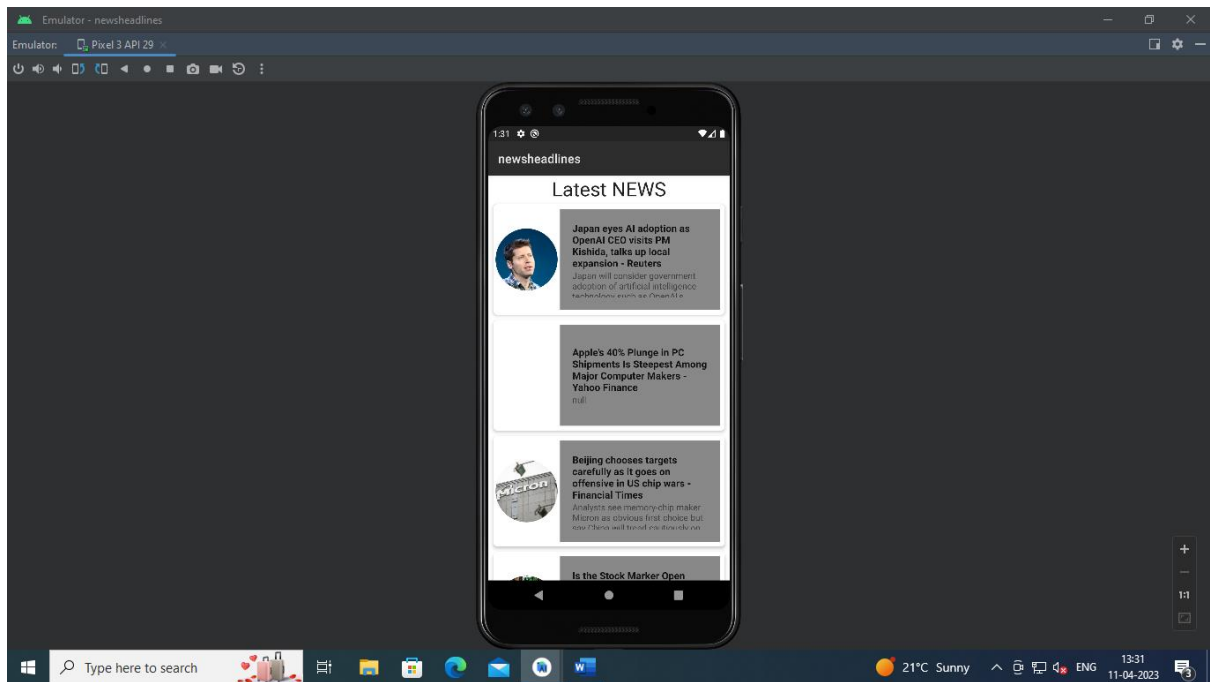
2.2 IDEATION & BRAINSTROMING MAP



RESULT







ADVANTAGES & DISADVANTAGES

ADVANTAGES

1. we can easily know about the news for many places by using this app
2. Helps people to improve their knowledge at their own colloquial language
3. we can receive all the sectors of news instantly
4. Without internet headlines are accessible
5. Search a particular district for instant news on that district

DISADVANTAGES

1. chance of unwanted roomers
2. Constant distraction, social disruption
3. Technical issues may arise during further reading of news constant

APPLICATION

1. General public
2. Marketing team

CONCLUSION

The headline tells them what to expect, the introduction eases them into the content, the subheadings help fill out their understanding of the content, and the conclusion wraps up the piece. In many cases, they can learn most of what they want to know from the introduction and conclusion alone.

FUTURE SCOPE

A news app needs to be steered with precision. Today's digital marketing tools allow publishers to select multiple parameters monitoring the use of an application: They can measure how long the app is used, when, for how long, why and where people tend to drop it, what kind of news they like, if they hit a paywall and give up, and why they do so

APPENDIX

SOURCE CODE

Gradle Scripts

```
plugins {  
    id 'com.android.application'  
    id 'org.jetbrains.kotlin.android'  
}  
  
android {  
    namespace 'com.example.newsheadlines'  
    compileSdk 33  
  
    defaultConfig {  
        applicationId "com.example.newsheadlines"  
        minSdk 21  
        targetSdk 33  
        versionCode 1  
        versionName "1.0"  
  
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"  
        vectorDrawables {  
            useSupportLibrary true  
        }  
    }  
  
    buildTypes {  
        release {  
            minifyEnabled false  
            proguardFiles getDefaultProguardFile('proguard-android-  
optimize.txt'), 'proguard-rules.pro'  
        }  
    }  
    compileOptions {  
        sourceCompatibility JavaVersion.VERSION_1_8  
        targetCompatibility JavaVersion.VERSION_1_8  
    }  
    kotlinOptions {  
        jvmTarget = '1.8'  
    }  
    buildFeatures {  
        compose true  
    }  
    composeOptions {  
        kotlinCompilerExtensionVersion '1.2.0'  
    }  
    packagingOptions {  
        resources {  
            excludes += '/META-INF/{AL2.0,LGPL2.1}'  
        }  
    }  
}  
  
dependencies {  
  
    implementation 'androidx.core:core-ktx:1.7.0'
```

```

        implementation 'androidx.lifecycle:lifecycle-runtime-kt: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"
        implementation 'androidx.room:room-common:2.5.0'

        implementation 'androidx.room:room-kt:2.5.0'
        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")
    }

```

Data base class

User Dao

```

package com.example.newsheadlines

import androidx.room.*

@Dao
interface UserDao {

    @Query("SELECT * FROM user_table WHERE email = :email")
    suspend fun getUserByEmail(email: String): User?

    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertUser(user: User)

    @Update
    suspend fun updateUser(user: User)

    @Delete
    suspend fun deleteUser(user: User)
}

```

User Database

```

package com.example.newsheadlines

import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase

```

```

@Database(entities = [User::class], version = 1)
abstract class UserDatabase : RoomDatabase() {

    abstract fun userDao(): UserDao

    companion object {

        @Volatile
        private var instance: UserDatabase? = null

        fun getDatabase(context: Context): UserDatabase {
            return instance ?: synchronized(this) {
                val newInstance = Room.databaseBuilder(
                    context.applicationContext,
                    UserDatabase::class.java,
                    "user_database"
                ).build()
                instance = newInstance
                newInstance
            }
        }
    }
}

```

User Database helper

```

package com.example.newsheadlines

import android.annotation.SuppressLint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper

class UserDatabaseHelper(context: Context) :
    SQLiteOpenHelper(context, DATABASE_NAME, null, DATABASE_VERSION) {

    companion object {
        private const val DATABASE_VERSION = 1
        private const val DATABASE_NAME = "UserDatabase.db"

        private const val TABLE_NAME = "user_table"
        private const val COLUMN_ID = "id"
        private const val COLUMN_FIRST_NAME = "first_name"
        private const val COLUMN_LAST_NAME = "last_name"
        private const val COLUMN_EMAIL = "email"
        private const val COLUMN_PASSWORD = "password"
    }

    override fun onCreate(db: SQLiteDatabase?) {
        val createTable = "CREATE TABLE $TABLE_NAME (" +
            "$COLUMN_ID INTEGER PRIMARY KEY AUTOINCREMENT, " +
            "$COLUMN_FIRST_NAME TEXT, " +
            "$COLUMN_LAST_NAME TEXT, " +
            "$COLUMN_EMAIL TEXT, " +
            "$COLUMN_PASSWORD TEXT" +
            ")"

        db?.execSQL(createTable)
    }
}

```

```

    }

    override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int,
newVersion: Int) {
        db?.execSQL("DROP TABLE IF EXISTS $TABLE_NAME")
        onCreate(db)
    }

    fun insertUser(user: User) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN_FIRST_NAME, user.firstName)
        values.put(COLUMN_LAST_NAME, user.lastName)
        values.put(COLUMN_EMAIL, user.email)
        values.put(COLUMN_PASSWORD, user.password)
        db.insert(TABLE_NAME, null, values)
        db.close()
    }

    @SuppressWarnings("Range")
    fun getUserByUsername(username: String): User? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE_NAME WHERE
$COLUMN_FIRST_NAME = ?", arrayOf(username))
        var user: User? = null
        if (cursor.moveToFirst()) {
            user = User(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                firstName =
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_NAME)),
                lastName =
cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NAME)),
                email =
cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                password =
cursor.getString(cursor.getColumnIndex(COLUMN_PASSWORD)),
            )
            cursor.close()
            db.close()
            return user
        }
    }

    @SuppressWarnings("Range")
    fun getUserById(id: Int): User? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE_NAME WHERE
$COLUMN_ID = ?", arrayOf(id.toString()))
        var user: User? = null
        if (cursor.moveToFirst()) {
            user = User(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                firstName =
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_NAME)),
                lastName =
cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NAME)),
                email =
cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                password =
cursor.getString(cursor.getColumnIndex(COLUMN_PASSWORD)),
            )
        }
    }

```

```

        cursor.close()
        db.close()
        return user
    }

    @SuppressLint("Range")
    fun getAllUsers(): List<User> {
        val users = mutableListOf<User>()
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE_NAME", null)
        if (cursor.moveToFirst()) {
            do {
                val user = User(
                    id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                    firstName =
cursor.getString(cursor.getColumnIndex(COLUMN_FIRST_NAME)),
                    lastName =
cursor.getString(cursor.getColumnIndex(COLUMN_LAST_NAME)),
                    email =
cursor.getString(cursor.getColumnIndex(COLUMN_EMAIL)),
                    password =
cursor.getString(cursor.getColumnIndex(COLUMN_PASSWORD)),
                )
                users.add(user)
            } while (cursor.moveToNext())
        }
        cursor.close()
        db.close()
        return users
    }
}

```

Creating API services

```

package com.example.newsheadlines

import retrofit2.Retrofit
import retrofit2.converter.gson.GsonConverterFactory
import retrofit2.http.GET

interface ApiService {

    // @GET("movielist.json")
    @GET("top-
headlines?country=us&category=business&apiKey=684cb893caf7425abeffad82ac1d0
f4e")
    /// @GET("search?q=chatgpt")
    suspend fun getMovies() : News

    companion object {
        var apiService: ApiService? = null
        fun getInstance() : ApiService {
            if (apiService == null) {
                apiService = Retrofit.Builder()
                    // .baseUrl("https://howtodoandroid.com/apis/")
                    .baseUrl("https://newsapi.org/v2/")
                    // .baseUrl("https://podcast-episodes.p.rapidapi.com/")
            }
        }
    }
}

```

```

        .addConverterFactory(GsonConverterFactory.create())
        .build().create(ApiService::class.java)
    }
    return apiService!!
}
}
}
}

```

Creating Main view model

```

package com.example.newsheadlines

import android.util.Log
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.setValue
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.example.newsheadlines.Articles
import kotlinx.coroutines.launch

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

```

Building Application UI Login Activity

```

package com.example.newsheadlines

import android.content.Context
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.shape.RoundedCornerShape

```



```

import androidx.compose.material.*
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Lock
import androidx.compose.material.icons.filled.Person
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import androidx.core.content.ContextCompat.startActivity
import com.example.newsheadlines.ui.theme.NewsHeadlinesTheme

class LoginActivity : ComponentActivity() {
    private lateinit var databaseHelper: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper(this)
        setContent {

            LoginScreen(this, databaseHelper)

        }
    }
}

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

    Column(
        Modifier
            .fillMaxHeight()
            .fillMaxWidth()
            .padding(28.dp),
        horizontalAlignment = Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center)

    {

        Image(
            painter = painterResource(id = R.drawable.news),
            contentDescription = "")

        Spacer(modifier = Modifier.height(10.dp))

        Row {
            Divider(color = Color.LightGray, thickness = 2.dp, modifier =
Modifier
                .width(155.dp)
                .padding(top = 20.dp, end = 20.dp))
            Text(text = "Login",
                color = Color(0xFF6495ED),
                fontWeight = FontWeight.Bold,
                fontSize = 24.sp, style = MaterialTheme.typography.h1)
            Divider(color = Color.LightGray, thickness = 2.dp, modifier =

```

```

Modifier
    .width(155.dp)
    .padding(top = 20.dp, start = 20.dp))

}

Spacer(modifier = Modifier.height(10.dp))

TextField(
    value = username,
    onChange = { username = it },
    leadingIcon = {
        Icon(
            imageVector = Icons.Default.Person,
            contentDescription = "personIcon",
            tint = Color(0xFF6495ED)
        )
    },
    placeholder = {
        Text(
            text = "username",
            color = Color.Black
        )
    },
    colors = TextFieldDefaults.textFieldColors(
        backgroundColor = Color.Transparent
    )
)

Spacer(modifier = Modifier.height(20.dp))

TextField(
    value = password,
    onChange = { password = it },
    leadingIcon = {
        Icon(
            imageVector = Icons.Default.Lock,
            contentDescription = "lockIcon",
            tint = Color(0xFF6495ED)
        )
    },
    placeholder = { Text(text = "password", color = Color.Black) },
    visualTransformation = PasswordVisualTransformation(),
    colors = TextFieldDefaults.textFieldColors(backgroundColor =
Color.Transparent)
)

Spacer(modifier = Modifier.height(12.dp))
if (error.isNotEmpty()) {
    Text(
        text = error,
        color = MaterialTheme.colors.error,
        modifier = Modifier.padding(vertical = 16.dp)
    )
}

Button(

```

```

        onClick = {
            if (username.isNotEmpty() && password.isNotEmpty()) {
                val user = databaseHelper.getUserByUsername(username)
                if (user != null && user.password == password) {
                    error = "Successfully log in"
                    context.startActivity(
                        Intent(
                            context,
                            MainPage::class.java
                        )
                    )
                    //onLoginSuccess()
                } else {
                    error = "Invalid username or password"
                }
            } else {
                error = "Please fill all fields"
            }
        },
        shape = RoundedCornerShape(20.dp),
        colors = ButtonDefaults.buttonColors(backgroundColor =
Color(0xFF77a2ef)),
        modifier = Modifier.width(200.dp)
            .padding(top = 16.dp)
    ) {
        Text(text = "Log In", fontWeight = FontWeight.Bold)
    }

    Row(modifier = Modifier.fillMaxWidth()) {
        TextButton(onClick = {
            context.startActivity(
                Intent(
                    context,
                    RegistrationActivity::class.java
                ))
        }) {
            Text(text = "Sign up",
                color = Color.Black
            )
        }

        Spacer(modifier = Modifier.width(100.dp))

        TextButton(onClick = { /* Do something! */ }) {
            Text(text = "Forgot password ?",
                color = Color.Black
            )
        }
    }
}

}

private fun startMainPage(context: Context) {
    val intent = Intent(context, MainPage::class.java)
    ContextCompat.startActivity(context, intent, null)
}

```

Registration Activity

```

package com.example.newsheadlines

import android.content.Context
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.*
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Email
import androidx.compose.material.icons.filled.Lock
import androidx.compose.material.icons.filled.Person
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import com.example.newsheadlines.ui.theme.NewsHeadlinesTheme

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

            RegistrationScreen(this, databaseHelper)

        }
    }
}

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

    Column(
        Modifier
            .background(Color.White)
            .fillMaxHeight()
            .fillMaxWidth(),
        horizontalAlignment = Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center)

```

```

{
    Row {
        Text(
            text = "Sign Up",
            color = Color(0xFF6495ED),
            fontWeight = FontWeight.Bold,
            fontSize = 24.sp, style = MaterialTheme.typography.h1
        )
        Divider(
            color = Color.LightGray, thickness = 2.dp, modifier =
Modifier
                .width(250.dp)
                .padding(top = 20.dp, start = 10.dp, end = 70.dp)
        )
    }

    Image(
        painter = painterResource(id = R.drawable.sign_up),
        contentDescription = "",
        modifier = Modifier.height(270.dp)
    )

    TextField(
        value = username,
        onChange = { username = it },
        leadingIcon = {
            Icon(
                imageVector = Icons.Default.Person,
                contentDescription = "personIcon",
                tint = Color(0xFF6495ED)
            )
        },
        placeholder = {
            Text(
                text = "username",
                color = Color.Black
            )
        },
        colors = TextFieldDefaults.textFieldColors(
            backgroundColor = Color.Transparent
        )
    )

    Spacer(modifier = Modifier.height(8.dp))

    TextField(
        value = password,
        onChange = { password = it },
        leadingIcon = {
            Icon(
                imageVector = Icons.Default.Lock,
                contentDescription = "lockIcon",
                tint = Color(0xFF6495ED)
            )
        },
        placeholder = { Text(text = "password", color = Color.Black) },
        visualTransformation = PasswordVisualTransformation(),
        colors = TextFieldDefaults.textFieldColors(backgroundColor =
Color.Transparent)
    )
}

```

```

    )

    Spacer(modifier = Modifier.height(16.dp))

    TextField(
        value = email,
        onChange = { email = it },
        leadingIcon = {
            Icon(
                imageVector = Icons.Default.Email,
                contentDescription = "emailIcon",
                tint = Color(0xFF6495ED)
            )
        },
        placeholder = { Text(text = "email", color = Color.Black) },
        colors = TextFieldDefaults.textFieldColors(background =
Color.Transparent)
    )

    Spacer(modifier = Modifier.height(8.dp))

    if (error.isNotEmpty()) {
        Text(
            text = error,
            color = MaterialTheme.colors.error,
            modifier = Modifier.padding(vertical = 16.dp)
        )
    }

    Button(
        onClick = {
            if (username.isNotEmpty() && password.isNotEmpty() &&
email.isNotEmpty()) {
                val user = User(
                    id = null,
                    firstName = username,
                    lastName = null,
                    email = email,
                    password = password
                )
                databaseHelper.insertUser(user)
                error = "User registered successfully"
                // Start LoginActivity using the current context
                context.startActivity(
                    Intent(
                        context,
                        LoginActivity::class.java
                    )
                )
            } else {
                error = "Please fill all fields"
            }
        },
        shape = RoundedCornerShape(20.dp),
        colors = ButtonDefaults.buttonColors(background =
Color(0xFF77a2ef)),
        modifier = Modifier.width(200.dp)
            .padding(top = 16.dp)
    )

```

```

    ) {
        Text(text = "Register", fontWeight = FontWeight.Bold)
    }

    Row(
        modifier = Modifier.padding(30.dp),
        verticalAlignment = Alignment.CenterVertically,
        horizontalArrangement = Arrangement.Center
    ) {

        Text(text = "Have an account?")

        TextButton(onClick = {
            context.startActivity(
                Intent(
                    context,
                    LoginActivity::class.java
                )
            )
        }) {
            Text(text = "Log in",
                fontWeight = FontWeight.Bold,
                style = MaterialTheme.typography.subtitle1,
                color = Color(0xFF4285F4)
            )
        }
    }
}

private fun startLoginActivity(context: Context) {
    val intent = Intent(context, LoginActivity::class.java)
    ContextCompat.startActivity(context, intent, null)
}

```

Main page

```

package com.example.newsheadlines

import android.content.Context
import android.content.Intent
import android.content.Intent.FLAG_ACTIVITY_NEW_TASK
import android.os.Bundle
import android.util.Log
import android.widget.TextView
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.viewModels
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.itemsIndexed
import androidx.compose.foundation.selection.selectable
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.Card
import androidx.compose.material.MaterialTheme

```

```

import androidx.compose.material.Surface
import androidx.compose.material.Text
import androidx.compose.runtime.*
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.viewinterop.AndroidView
import androidx.core.text.HtmlCompat
import coil.compose.rememberImagePainter
import coil.size.Scale
import coil.transform.CircleCropTransformation
import com.example.newsheadlines.Articles
import com.example.newsheadlines.ui.theme.NewsHeadlinesTheme

class MainPage : ComponentActivity() {
    val mainViewModel by viewModels<MainViewModel>()
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            NewsHeadlinesTheme {
                // A surface container using the 'background' color from
the theme
                Surface(color = MaterialTheme.colors.background) {
                    Column() {

                        Text(text = "Latest NEWS", fontSize = 32.sp,
modifier = Modifier.fillMaxWidth(), textAlign = TextAlign.Center)

                        MovieList(applicationContext, movieList =
mainViewModel.movieListResponse)
                        mainViewModel.getMovieList()
                    }
                }
            }
        }
    }
}

@Composable
fun MovieList(context: Context, movieList: List<Articles>) {
    var selectedIndex by remember { mutableStateOf(-1) }
    LazyColumn {

        itemsIndexed(items = movieList) {
            index, item ->
            MovieItem(context, movie = item, index, selectedIndex) { i ->
                selectedIndex = i
            }
        }
    }
}

@Composable
fun MovieItem(context: Context) {
    val movie = Articles(
        "Coco",

```



```

        ""
        " articl"
    )

    MovieItem(context, movie = movie, 0, 0) { i ->
        Log.i("wertytest123abc", "MovieItem: "
            +i)
    }
}

@Composable
fun MovieItem(context: Context, movie: Articles, index: Int, selectedIndex:
Int,
    onClick: (Int) -> Unit)
{
    val backgroundColor = if (index == selectedIndex)
MaterialTheme.colors.primary else MaterialTheme.colors.background

    Card(
        modifier = Modifier
            .padding(8.dp, 4.dp)
            .fillMaxSize()
            .selectable(true, true, null,
                onClick = {
                    Log.i("test123abc", "MovieItem:
$itemIndex/n$selectedIndex")
                })
            .clickable { onClick(index) }
            .height(180.dp), shape = RoundedCornerShape(8.dp), elevation =
4.dp
    ) {
        Surface(color = Color.White) {

            Row(
                Modifier
                    .padding(4.dp)
                    .fillMaxSize()

            )
            {
                Image(
                    painter = rememberImagePainter(
                        data = movie.urlToImage,
                        builder = {
                            scale(Scale.FILL)
                            placeholder(R.drawable.placeholder)
                            transformations(CircleCropTransformation())
                        }
                    ),
                    contentDescription = movie.description,
                    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(true, true, null,
            onClick = {
                Log.i("test123abc", "MovieItem:
$index/n${movie.description}")
                context.startActivity(
                    Intent(context,
DisplayNews::class.java)

                .setFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
                    .putExtra("desk",
movie.description.toString())
                    .putExtra("urlToImage",
movie.urlToImage)
                    .putExtra("title", movie.title)
                )
            })
    ) {
        Text(
            text = movie.title.toString(),
            style = MaterialTheme.typography.subtitle1,
            fontWeight = FontWeight.Bold
        )

        HtmlText(html = movie.description.toString())
    }
}

@Composable
fun HtmlText(html: String, modifier: Modifier = Modifier) {
    AndroidView(
        modifier = modifier
            .fillMaxSize()
            .size(33.dp),
        factory = { context -> TextView(context) },
        update = { it.text = HtmlCompat.fromHtml(html,
HtmlCompat.FROM_HTML_MODE_COMPACT) }
    )
}
}

```

Display news

```

package com.example.newsheadlines

import android.content.Intent
import android.os.Bundle
import android.util.Log
import android.widget.TextView
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent

```

```

import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.padding
import androidx.compose.material.MaterialTheme
import androidx.compose.material.Surface
import androidx.compose.material.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.viewinterop.AndroidView
import androidx.core.text.HtmlCompat
import coil.compose.rememberImagePainter
import com.example.newsheadlines.ui.theme.NewsHeadlinesTheme

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("desk")
                    var title = getIntent().getStringExtra("title")
                    var uriImage = getIntent().getStringExtra("urlToImage")
                    Log.i("test123abc", "MovieItem: $desk")

                    Column(Modifier.background(Color.Gray).padding(20.dp),
horizontalAlignment = Alignment.CenterHorizontally, verticalArrangement =
Arrangement.Center) {
                        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(uriImage),
                            contentDescription = "My content description",
                        )
                    }
                    // Greeting(desk.toString())
                }
            }
        }
    }
}

@Composable

```

```

fun Greeting(name: String) {
    // Text(text = "Hello $name!")
}

@Preview(showBackground = true)
@Composable
fun DefaultPreview() {
    NewsHeadlinesTheme {
        // Greeting("Android")
    }
}

@Composable
fun HtmlText(html: String, modifier: Modifier = Modifier) {
    AndroidView(
        modifier = modifier,
        factory = { context -> TextView(context) },
        update = { it.text = HtmlCompat.fromHtml(html,
            HtmlCompat.FROM_HTML_MODE_COMPACT) }
    )
}

```

Android Manifest

```

<?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
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@drawable/news_app_icon"
        android:label="@string/app_name"
        android:supportsRtl="true"

        tools:targetApi="31">
        <activity
            android:name=".DisplayNews"
            android:exported="false"
            android:label="@string/title_activity_display_news"
            />
        <activity
            android:name=".RegistrationActivity"
            android:exported="false"
            android:label="@string/title_activity_registration"
            />
        <activity
            android:name=".MainPage"
            android:exported="false"
            />
        <activity
            android:name=".LoginActivity"
            android:exported="true"
            android:label="@string/app_name"
            />
    </application>

```

```
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

            <category android:name="android.intent.category.LAUNCHER"
/>
        </intent-filter>
    </activity>
</application>
</manifest>
```

