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INTRODUCTION

The main objective of News App is to provide the users with easy access to the latest news from a variety of reliable sources for user-friendly and efficient manner. This app should aim to offer a clean and organized interface, with a focus on delivering news articles quickly and efficiently.

1.1 Overview:

- Providing a personalized experience: The News app should allow users to customize their news feed based on their interests, location, or other preferences.
- Offering real-time updates: This app should be updated frequently to ensure that users have access to the latest news as it happens.
- Ensuring accuracy and reliability: It should only source news from credible and reliable sources to ensure that users receive accurate and trustworthy information.
- Enhancing engagement: This app should provide users with the ability to interact with news stories by commenting, sharing, or reacting to articles.


1.2 Purpose:

- Providing users with a convenient and efficient way to access news articles from different sources.
- Delivering news stories in real-time to ensure users stay up-to-date on current events.
- Providing a platform for users to engage with news stories, share articles with others, and provide feedback or comments.
- Offering a platform for publishers to distribute their content and reach a wider audience.

PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy Map:

Template



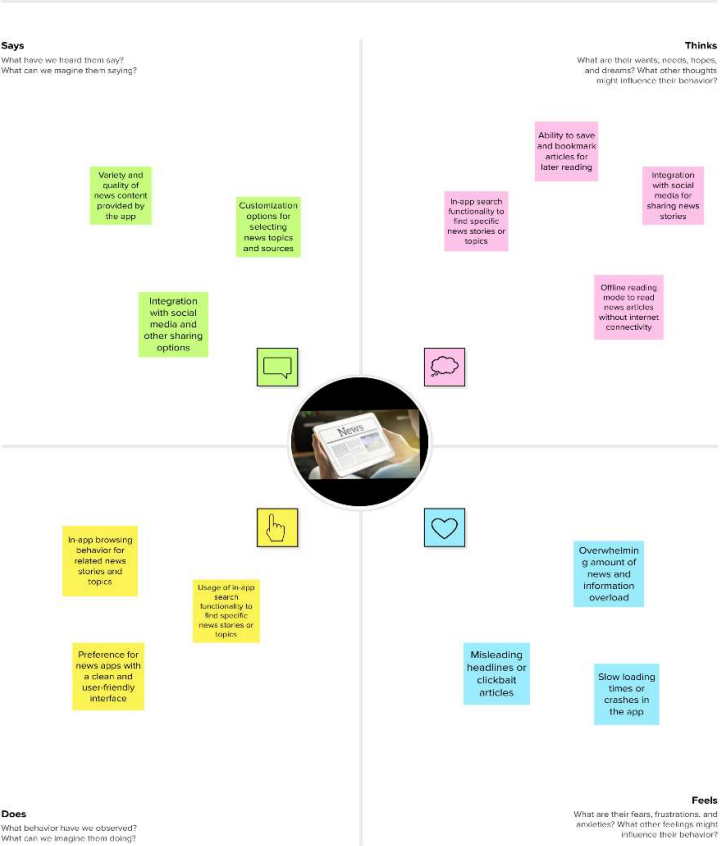
Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

[Share template feedback](#)

Build empathy

The information you add here should be representative of the observations and research you've done about your users.



Says
What have we heard them say?
What can we imagine them saying?


Thinks
What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?

Does
What behavior have we observed?
What can we imagine them doing?

Feels
What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?

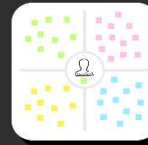



Observations and Needs:

- Says:** Variety and quality of news content provided by the app; Customization options for selecting news topics and sources; Integration with social media and other sharing options.
- Thinks:** Ability to save and bookmark articles for later reading; Integration with social media for sharing news stories; Offline reading mode to read news articles without internet connectivity.
- Does:** In-app search functionality to find specific news stories or topics; In-app browsing behavior for related news stories and topics; Usage of in-app search functionality to find specific news stories or topics; Preference for news apps with a clean and user-friendly interface.
- Feels:** Overwhelming amount of news and information overload; Misleading headlines or clickbait articles; Slow loading times or crashes in the app.



Need some inspiration?
See a finished version of this template to kickstart your work.

[Open example](#) →



2.2 Ideation & Brainstorming Map:

Brainstorm & idea prioritization

Use the brainstorming process to generate ideas and then prioritize them using the prioritization process.

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Before you collaborate

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Brainstorm

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Prioritize

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Define your problem statement

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Brainstorm

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Prioritize

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Brainstorm

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Prioritize

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Group Work

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Prioritize

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

After you collaborate

1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Brainstorm


1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas

Prioritize


1. Know your problem
2. Brainstorm ideas
3. Prioritize ideas


RESULT

Sign in Page:



Login

 **username**

 **password**

Log In

Sign up **Forgot password ?**

Sign up page:

Sign Up



username



password



email

Register

Have an account? [Log in](#)

Home Page:

Latest NEWS



Inside the international sting operation to catch North Korean crypto hackers - CNN

A team of South Korean spies and American private investigators quietly gathered at the South Korean intelligence service in January, just days after North Korea fired three ballistic missiles into



US Government May Launch New Effort To Seize Private Property. Says JPMorgan CEO – Here's Why - The Daily Hodl

JPMorgan CEO Jamie Dimon says the US government may need to seize private property to fuel one of its most



Tesla employees shared private footage from customers' cars. lawsuit says - The Washington Post

The shared images and videos included a naked man approaching a Tesla and memes of family pets. The lawsuit is seeking damages for vehicle owners and



Substack CEO pushes back at Elon, says Twitter situation is "very frustrating" - The Verge

Substack CEO Chris Best fires back at Elon Musk claiming the company violated Twitter's terms of service.



Top Dogecoin Whales Offloaded Over \$123,000,000 DOGE As the Memecoin

News Page:

Inside the international sting operation to catch North Korean crypto hackers - CNN

A team of South Korean spies and American private investigators quietly gathered at the South Korean intelligence service in January, just days after North Korea fired three ballistic missiles into the sea.



ADVANTAGES & DISADVANTAGES

1.1 Advantages:

- Convenience: A news app provides users with a quick and convenient way to access news articles from multiple sources in one place, without having to navigate through various websites or apps.
- Personalization: Users can customize their news feed by selecting topics or categories of interest, ensuring that they only receive news that is relevant to them.
- Real-time updates: A news app can deliver news stories in real-time, ensuring that users stay up-to-date on current events as they unfold.
- Privacy: Unauthorized person cannot access your app without enter correct username and password.

1.2 Disadvantages:

- User engagement: A news app can provide users with features such as commenting, sharing, and saving articles, which can encourage engagement and interaction with the app.
- Technical issues: As with any app, technical issues such as bugs, crashes, or slow loading times can frustrate users and damage the app's reputation.
- Limited news sources: If the app only pulls news from a select few sources, users may not receive a diverse range of perspectives on news events. This could lead to a perception of bias or limited coverage.
- Limited functionality: If the app only provides basic features such as signing up and listing news articles, it may not be competitive with other news apps that offer more advanced features such as multimedia content, social sharing, or personalization.

APPLICATIONS

- General news: A news app can be used to deliver general news articles from a variety of sources, covering topics such as politics, world news, sports, and entertainment.
- Social news: A news app can incorporate social media features to allow users to share news articles with their social network or engage in discussions around specific news events.
- Education: A news app can be used in an educational setting to provide students with access to current events and news articles relevant to their coursework or research.
- Business: A news app can be used in a business setting to provide employees with access to news articles and updates related to their industry or company.
- Travel: A news app can provide users with access to news articles and updates related to their travel destination, including local news, events, and travel tips.
- Politics: A news app can be used in a political setting to provide users with access to news articles and updates related to politics, elections, and government policies.

Conclusion

We conclude that the News app would feature a sign-up and sign-in page, as well as a news page where articles are listed with current updates. Additionally, the app would allow users to view short notes on news articles when they select a particular news item. However, there are some potential limitations to this app, such as limited news sources, basic functionality, and lack of offline access. To improve the app, you plan to add the ability to save news articles, show brief news articles when a user selects a particular news item, improve the user interface, and show news articles based on categories. It can be applied in various areas where there is a need for access to up-to-date news and information, including general news, local news, niche news, social news, education, business, travel, and politics. The UI will be improved to make the app more visually appealing and user-friendly. The News app will not have offline access initially, but this will also be added in a future update.

Future Scopes

In future adding more sources to provide users with a wider range of news articles to choose from. To make the app more engaging for users and adding personalization features. Adding features that allow users to share news articles with their friends, or engage in discussions around specific news events. Adding audio and video clip features to the app for more user-friendly. To add more local news articles to provide users with up-to-date information on events and news in their local area and allow users to access news articles even when they are not connected to the internet.

APPENDIX

Source Code:

<https://github.com/VimalEswar/NewsHeadline>

Code:

1. LoginActivity.kt

```
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,

```

```

onValueChange = { 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,
    onValueChange = { 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)
```

```
}
```

2. RegistrationActivity.kt

```
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,
    onValueChange = { 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(backgroundColor =
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(backgroundColor =
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)  
}
```

3. MainPage.kt

```
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.example.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",
        "",
        " article"
    )

    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: $index/n$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) }  
    )  
}  
}
```

4. DisplayNews.kt

```
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())
                        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) }  
    )  
}
```