An Android Application For Keeping Up With The Latest Headlines

Introduction
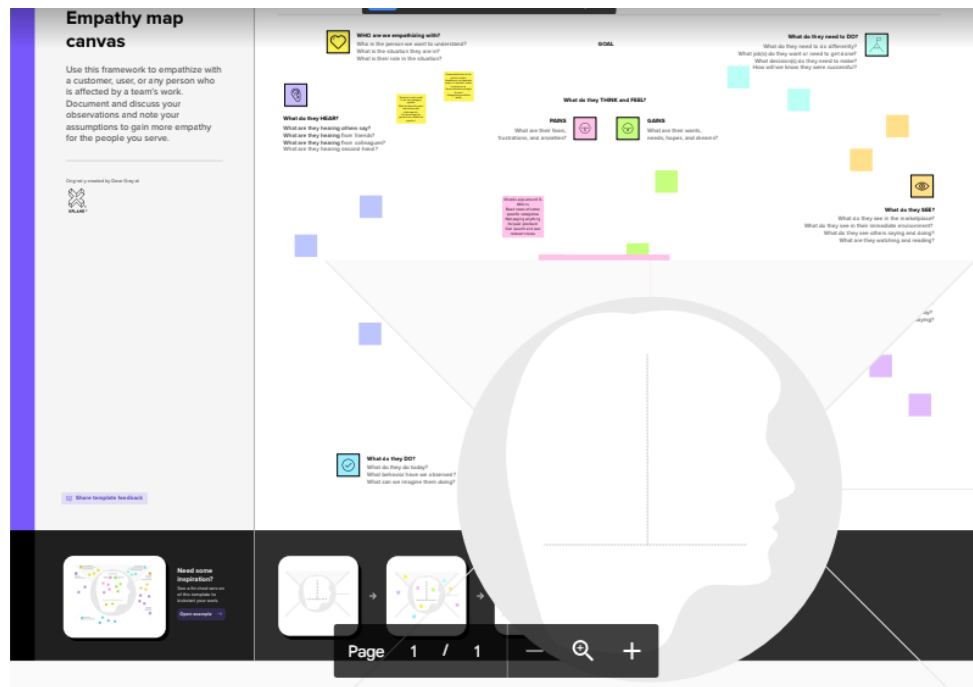
1.1.   Overview

Project Description

        This app display a list of latest news with news title, image, and a short description. It allows to tap on a headline to read detailed news. The app provides provisions to update latest news with relevant images which could be uploaded. This is done using Jetpack Compose UI toolkit to build the UI and it uses the coil library to load images.

Purpose

        The app helps to be in touch with the latest news from all relevant fields.
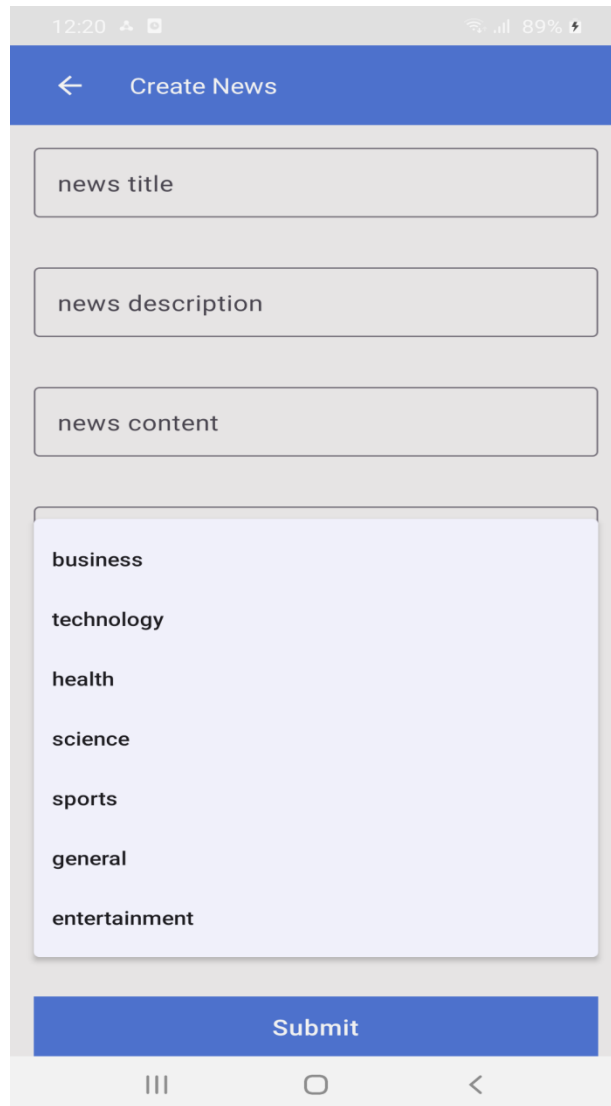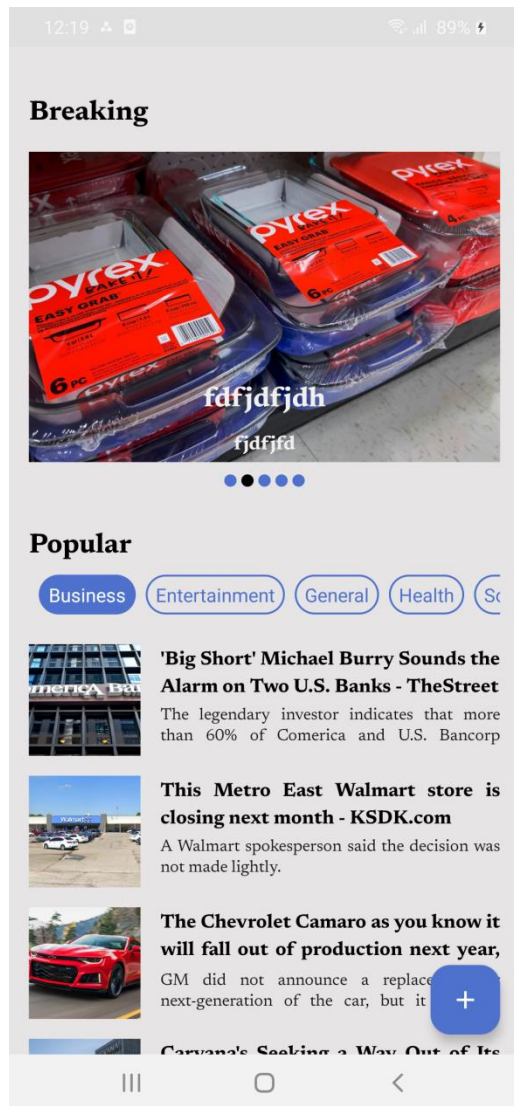
Problem Definition and thinking

2.1. Empathy Map

2.2. Ideation and Brainstorming Map

Result

Home   Category

Breaking

fdfjdfjdh

fjdfjfd

● ● ● ● ●

Popular

Business Entertainment General Health Sc

'Big Short' Michael Burry Sounds the Alarm on Two U.S. Banks - TheStreet

The legendary investor indicates that more than 60% of Comerica and U.S. Bancorp

This Metro East Walmart store is closing next month - KSDK.com

A Walmart spokesperson said the decision was not made lightly.

The Chevrolet Camaro as you know it will fall out of production next year,

GM did not announce a replace next-generation of the car, but it

Carvana's Seeking a Way Out of Its

← **Create News**

news title

news description

news content

business

technology

health

science

sports

general

entertainment

Submit

Choose

Details

Create News

news title

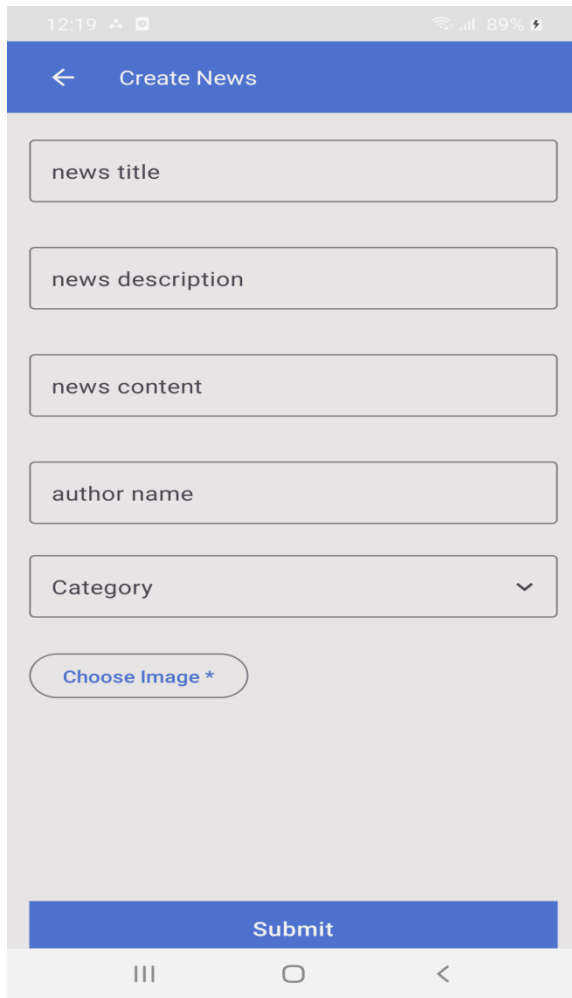**Pick relevant image**

scroll to see more images..

Submit

'Big Short' Michael Burry
Sounds the Alarm on Two U.S.
Banks - TheStreet

The past 24 hours were a bit calmer, but a
crisis of confidence is still shaking the
banks.p
Investors are trying to catch their breath as
they await the Federal Reserve's
monetary-policy decision. ... [+7294 chars]

Posted by:Luc Olinga
Published On:23/03/2023, 05:45 am

Create   Splash
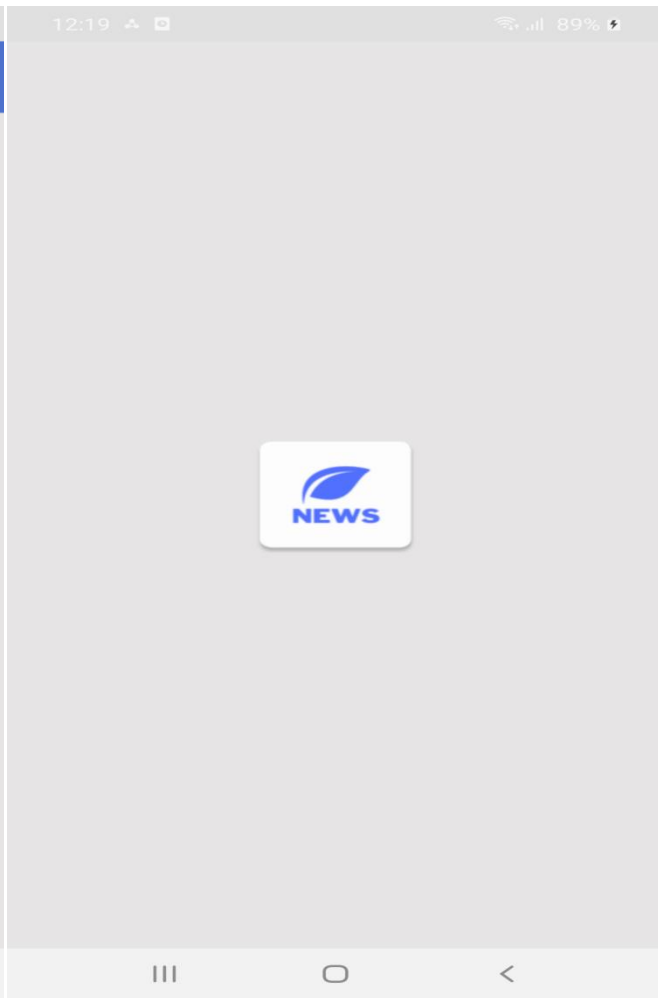
Advantages

      A particular news can be displayed based on the user preferences by taking the priority. This app makes available news in one place and user need not have to search the news of his preference again and again.

Disadvantages

The main drawbacks with the news app may be that it require data/wifi to get online and it does not provide the feel of reading it from a newspaper.

Conclusion

News and other informative articles published periodically are the contents of a newspaper. Online versions of newspaper are becoming a new trend that includes all the important headlines both national and international news as well as local news which are typical of general interest newspapers. The main headlines are inclusive of political events and personalities, business**, entertainment etc.**

Future Scope

The app could be modified to get notifications and also to provide better navigational ways.

Appendix

A. Source Code
   AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools">

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

<application
android:name="com.devikumari.news.base.NewsApp"
android:allowBackup="false"
android:icon="@mipmap/ic_launcher_foreground"
android:roundIcon="@mipmap/ic_launcher_foreground"
android:label="@string/app_name"
android:supportsRtl="true"
android:theme="@style/Theme.News"
android:usesCleartextTraffic="true"
tools:targetApi="31" >
<activity
android:name="com.devikumari.news.base.MainActivity"
android:exported="true" >
<intent-filter>
<action android:name="android.intent.action.MAIN" />

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

```xml
</manifest>
```

build.gradle

```groovy
buildscript{
ext{
gradle_version = '7.4.1'
kotlin_version = '1.8.0'
google_services_version = '4.3.14'
compose_bom_version = '2023.01.00'
material_version = '1.1.0-beta01'
compose_version = '1.4.0'
hilt_version = '2.45'
hilt_navigation_compose_version = '1.0.0'
firebase_bom_version = '31.2.3'
constraintlayout_version = '1.0.1'
coil_version = '2.2.2'
accompanist_pager_version = '0.18.0'
materialchip_version = '3.0.5'
navigation_version = '2.6.0-alpha05'
}
dependencies {
classpath"com.google.gms:google-services:$google_services_version"
classpath"com.google.dagger:hilt-android-gradle-plugin:$hilt_version"
}
}

plugins {
id 'com.android.application' version "${gradle_version}" apply false
id 'com.android.library' version "${gradle_version}" apply false
id 'org.jetbrains.kotlin.android' version "${kotlin_version}" apply false
}

task clean(type: Delete) {
delete rootProject.buildDir
}


#Wed Mar 22 22:44:54 IST 2023
distributionBase=GRADLE_USER_HOME
distributionUrl=https\://services.gradle.org/distributions/gradle-7.5-bin.zip
distributionPath=wrapper/dists
zipStorePath=wrapper/dists
zipStoreBase=GRADLE_USER_HOME
```

settings.gradle

```groovy
pluginManagement{
repositories {
google()
mavenCentral()
gradlePluginPortal()
```

```
}
}
dependencyResolutionManagement{
repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)
    repositories {
google()
mavenCentral()
}
}
rootProject.name = "news"
include ':app'
```

build.gradle(app)

```
plugins {
id "com.android.application"
id "kotlin-android"
id "kotlin-kapt"
id "com.google.gms.google-services"
id "dagger.hilt.android.plugin"
id "kotlin-parcelize"
}

android {
compileSdk33

defaultConfig{
applicationId"com.devikumari.news"
minSdk21
targetSdk33
versionCode1
versionName"1.0"

testInstrumentationRunner"androidx.test.runner.AndroidJUnitRunner"
}

buildTypes{
release {
minifyEnabledfalse
proguardFilesgetDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
}
    }
compileOptions{
sourceCompatibility JavaVersion.VERSION_11
targetCompatibility JavaVersion.VERSION_11
}
kotlinOptions{
jvmTarget = JavaVersion.VERSION_11
}
buildFeatures{
compose true
}
composeOptions{
kotlinCompilerExtensionVersioncompose_version
```

```gradle
}
namespace 'com.devikumari.news'
}

dependencies {
//Compose
implementation platform("androidx.compose:compose-bom:$compose_bom_version")
    implementation "androidx.compose.material3:material3:$material_version"
//Hilt
implementation "com.google.dagger:hilt-android:$hilt_version"
kapt"com.google.dagger:hilt-android-compiler:$hilt_version"
//Hilt Navigation Compose
implementation "androidx.hilt:hilt-navigation-
compose:$hilt_navigation_compose_version"
//Firebase
implementation platform("com.google.firebase:firebase-
bom:$firebase_bom_version")
implementation"com.google.firebase:firebase-firestore-ktx"
//ConstraintLayout
implementation("androidx.constraintlayout:constraintlayout-
compose:$constraintlayout_version")
//Image Loading
implementation("io.coil-kt:coil-compose:$coil_version")
//pager
implementation("com.google.accompanist:accompanist-
pager:$accompanist_pager_version")
//chips
implementation("com.robertlevonyan.compose:materialchip:$materialchip_version
")
//navigation
implementation("androidx.navigation:navigation-compose:$navigation_version")
}
```