AN ANDROID APPLICATION FOR KEEPING UP WITH THE LATEST HEADLINES

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1 INTRODUCTION

1.1   Overview:

Introducing a revolutionary news app with multiple language options, delivering breaking news from all over the world with an audible option for easy consumption. Our app prides itself on accuracy and reliability, ensuring that all news stories are thoroughly fact-checked before publishing to eliminate any misinformation. Additionally, we provide in-depth analysis of all major news events, giving users a complete understanding of the stories that shape our world. Say goodbye to misleading headlines and fake news, and join us in the pursuit of truth and knowledge.

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.An Android application for news headlines is a mobile application designed to provide users with easy access to the latest news stories from various sources. The application typically features a clean and user-friendly interface that displays news headlines from different categories such as sports, entertainment, politics, technology, and more. In addition to news headlines, the application may also feature articles, and images related to each news story. Overall, an Android application for news headlines provides a convenient

and efficient way for users to stay informed about current events and trending topics from around the world.

1.2 Purpose:

Convenience:

News apps allow you to quickly access the latest headlines from your mobile device, no matter where you are.

Personalization:

Many news apps allow you to customize your feed based on your interests, ensuring that you only see stories that are relevant to you.

Variety:

News apps often provide access to a wide range of news sources, including local, national, and international news outlets.

Notifications:

Some news apps can send push notifications to your device to alert you when breaking news occurs or when a story you're following is updated.

Offline access:

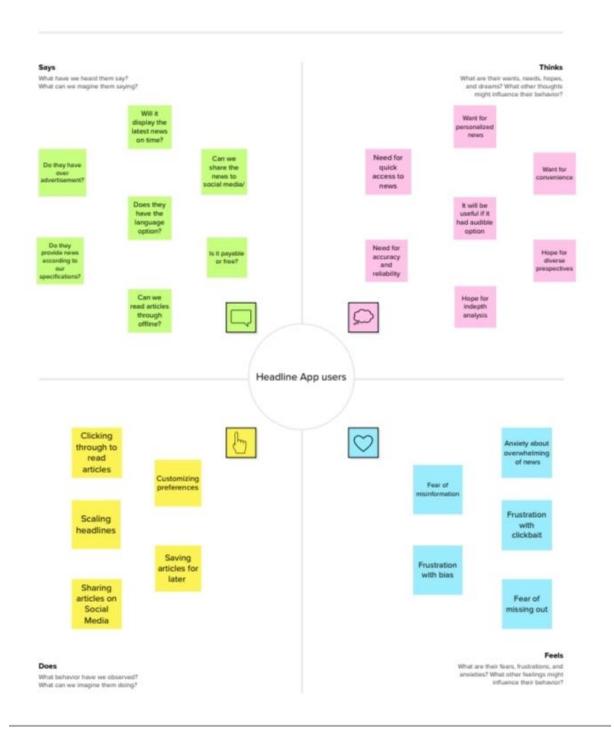Some news apps allow you to download articles to read later, even when you don't have an internet connection.

2 Problem Definition & Design Thinking

2.1 Empathy Map

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?

- Will it display the latest news on time?
- Do they have over advertisement?
- Can we share the news to social media/
- Does they have the language option?
- Do they provide news according to our specifications?
- Is it payable or free?
- Can we read articles through offline?

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

- Want for personalized news
- Need for quick access to news
- Want for convenience
- It will be useful if it had audible option
- Need for accuracy and reliability
- Hope for diverse prespectives
- Hope for indepth analysis

Headline App users

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

- Clicking through to read articles
- Customizing preferences
- Scaling headlines
- Saving articles for later
- Sharing articles on Social Media

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

- Anxiety about overwhelming of news
- Fear of misinformation
- Frustration with clickbait
- Frustration with bias
- Fear of missing out

2.3 Ideation and Brainstorming map

①

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕐 5 minutes

STATEMENT

Introducing a revolutionary news app with multiple language options, delivering breaking news from all over the world with an audible option for easy consumption. Our app prides itself on accuracy and reliability, ensuring that all news stories are thoroughly fact-checked before publishing to eliminate any misinformation. Additionally, we provide in-depth analysis of all major news events, giving users a complete understanding of the stories that shape our world. Say goodbye to misleading headlines and fake news, and join us in the pursuit of truth and knowledge.

Key rules of brainstorming
To run an smooth and productive session

Stay in topic.　　　　Encourage wild ideas.

Defer judgment.　　　Listen to others.

Go for volume.　　　　If possible, be visual.

❷

Brainstorm

Write down any ideas that come to mind
that address your problem statement.

🕐 10 minutes

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3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕐 20 minutes

USER INTERFACE

App genrating personalized news feed to the users when they open the app	Simple navigation menu to switch between new categories and sources	Users choosing which type of laert they want to receive on their phone

saving articles for later read and sharing to social media through messaging apps	Clean design to focus on the headline and the images

CLIENT SIDE

Clear and consistent visuals to enhance the user experience	Thorough testing of app on different devices and OS to ensure consistent function and experience over the platforms

Using push notifications to alert users of breaking news or important matter	Integrating with popular social medias

FEELS

Clean and simple design for user convenience	Consistent color platte to provide uniform visulas across the app	Search functionality to find specific topics or keywords

Legible font size and font color with the adjusting option	Customer feedback to improve the overall user experience

FEATURES

Ad-free: providing distraction free reading service	Optimized with fast loading times and minimal waiting times

App updation with latest news and information	Engaged language for interest in reading full article

4

Prioritize

Your team should all be on the same page about what's important
moving forward. Place your ideas on this grid to determine which
ideas are important and which are feasible.

⏱ 20 minutes

Importance

If each of these
tasks could get
done without any
difficulty or cost,
which would have
the most positive
impact?

Feasibility

Regardless of their importance, which tasks are more
feasible than others? (Cost, time, effort, complexity, etc.)

3 RESULT:

Sign Up

username

password

email

Register

Have an account? **Log in**

Latest NEWS

Japan eyes AI adoption as OpenAI CEO visits PM Kishida, talks up local expansion - Reuters

Japan will consider government adoption of artificial intelligence

Beijing chooses targets carefully as it goes on offensive in US chip wars - Financial Times

Analysts see memory-chip maker Micron as obvious first choice but

Elon Musk Paints Over 'W' On Twitter Sign At San Francisco HQ - Forbes

When a photo appeared online last week showing the 'W' covered up on the sign outside

Man claims Frontier Airlines lost his luggage before company employee's grandfather brought it to him - The Independent

The man was travelling from

Asian shares subdued as jobs data raises odds of Fed rate hike - Reuters

Japan eyes AI adoption as OpenAI CEO visits PM Kishida, talks up local expansion - Reuters

Japan will consider government adoption of artificial intelligence technology such as OpenAI's ChatGPT chatbot if privacy and cybersecurity concerns are resolved, Chief Cabinet Secretary Hirokazu Matsuno said on Monday.

4 ADVANTAGES & DISADVANTAGES:

Advantages:	Disadvantages:
Easy Access to the Latest News: News headlines applications provide easy and quick access to the latest news stories from around the world. Users can stay up-to-date with the latest happenings in their own country and around the world.	**Limited Information:** News headlines applications often provide only a brief summary of news stories, which means that users may not get the full picture. They may miss important details and nuances that are crucial for understanding the story.
Customizable: Many news headlines applications allow users to customize their news feed by selecting topics of interest, sources, and categories, which means that users can get news that is relevant to their interests	**Biased Information:** Some news headlines applications may provide biased information or present news stories in a way that reflects a particular agenda or viewpoint. This can lead to misinformation and biased reporting.
Convenience: News headlines applications are convenient for users who want to stay informed but don't have the time to read through entire articles. They can quickly scan headlines and get a sense of what's happening in the world.	**Biased Information:** Some news headlines applications may provide biased information or present news stories in a way that reflects a particular agenda or viewpoint. This can lead to misinformation and biased reporting.

5 APPLICATIONS:

1. **Personalized news:** A news headlines app could provide personalized news based on a user's interests and preferences. By analyzing the types of articles that a user clicks on or reads, the app could suggest other articles that the user might be interested in.

2. **Breaking news:** A news headlines app could provide up-to-the-minute breaking news alerts for important stories. This could be particularly useful for people who need to stay informed about developments in their industry or who want to stay up-to-date on current events.

3. **Financial news:** A news headlines app could focus on financial news, providing information on stock prices, economic indicators, and business news. This could be useful for investors, traders, and businesspeople who need to stay informed about financial developments.

4. **Local news:** A news headlines app could focus on local news, providing information on events, politics, and other developments in a user's local area. This could be particularly useful for people who want to stay informed about developments in their community.

5. **Sports news:** A news headlines app could focus on sports news, providing information on scores, schedules, and other developments in various sports. This could be useful for sports fans who want to stay

informed about the latest developments in their favorite sports.

6. **Entertainment news:** A news headlines app could focus on entertainment news, providing information on celebrity gossip, movie reviews, and other developments in the entertainment industry. This could be useful for people who are interested in pop culture and entertainment news.

7. **Technology news:** A news headlines app could focus on technology news, providing information on the latest developments in tech, including new products, trends, and innovations. This could be useful for people who work in the tech industry or who are interested in technology news.

6 CONCLUSION:

In conclusion, a news headlines application can be a valuable tool for staying informed and up-to-date on current events, as well as for tracking trends and developments in various industries and fields. By leveraging the power of language models like myself, a news headlines app can provide personalized news, breaking news alerts, and other useful features that can help users stay informed and engaged with the world around them. Whether you're interested in finance, sports, entertainment, or local news, there's likely a news headlines app out there that can provide the information you need in a convenient and accessible way. Overall, a news headlines application is a powerful tool that can provide a wide range of benefits for users across many industries and fields. By

leveraging the latest advances in language modeling and natural language processing, news headlines apps can help users stay informed, engaged, and connected to the world around them.

7 FUTURE SCOPE

1. **Improved personalization:** As news headlines apps collect more data on user preferences and behavior, they will become better at providing personalized news and content. Machine learning algorithms will be able to analyze user behavior patterns to identify the topics, sources, and formats that are most engaging and relevant to each user.

2. **Real-time translation**: With the increasing globalization of news and information, news headlines apps will need to provide real-time translation services to facilitate communication and collaboration across languages and borders. Advances in natural language processing will enable more accurate and seamless translation of news articles and headlines.

3. **Augmented reality and virtual reality**: News headlines apps may integrate augmented reality and virtual reality features to create more immersive and interactive news experiences. For example, users could explore 3D models of news stories, or virtually attend live events and press conferences.

4. **Deeper analysis and insights:** News headlines apps will be able to provide deeper insights and analysis into

news stories and trends. Natural language processing algorithms will be able to identify underlying themes and sentiment in news articles, and provide more nuanced and contextualized analysis.

5. **Enhanced security and verification:** With the rise of fake news and misinformation, news headlines apps will need to enhance their security and verification features to ensure the accuracy and reliability of news content. This could include features such as fact-checking and verification tools, or blockchain-based systems for verifying the authenticity of news sources.

6. **Voice-enabled interfaces:** With the increasing popularity of smart speakers and voice assistants, news headlines apps will need to integrate voice-enabled interfaces to provide a seamless and convenient news experience for users. This could include features such as voice-based news summaries and personalized news briefings.

8 Appendix:

A. Source code:

```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"/>
    <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"
```

```xml
            android:theme="@style/Theme.NewsApplication"
            tools:targetApi="31">
        <activity
            android:name=".DisplayNews"
            android:exported="false"
            android:label="@string/title_activity_display_news"
            android:theme="@style/Theme.NewsApplication" />
        <activity
            android:name=".RegistrationActivity"
            android:exported="false"
            android:label="@string/title_activity_registration"
            android:theme="@style/Theme.NewsApplication" />
        <activity
            android:name=".MainPage"
            android:exported="false"
            android:label="@string/title_activity_main_page"
            android:theme="@style/Theme.NewsApplication" />
        <activity
            android:name=".LoginActivity"
            android:exported="true"
            android:label="@string/app_name"
            android:theme="@style/Theme.NewsApplication">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"
/>

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

</manifest>
```