

News Android Application

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Abstract: The technological convergence of mobile “phones” and multimedia has been taking place since the 1990s, but it was not until the commercial birth of touchscreen-enabled mobile devices, offered with flat-rate subscriptions for mobile internet, that widespread production and use of news-related content and services began to flourish. Accessing mobile news has gained traction in the everyday life of the public. As news is increasingly accessed on smartphones and tablets, the need for personalizing news app interactions is apparent. As the world’s technology is rapidly growing, we have fast connections and networks to instantly connect to other people. Users can browse news articles and videos through various categories. We report a series of studies addressing key issues in the development of adaptive news app interfaces. We first researched user’s news reading preferences and behaviors, and analysis revealed primary types of readers. We then implemented and deployed an Android news app that displays news to the users. The purpose of the project is to develop an application that will display news articles and images verified and approved by the API. An app that helps you to quickly browse through objective news summaries on a delightful interface, whenever you get a chance in your busy life. In this fast and information-oriented world, we need to stay updated with every incident and news too. This News app is an android mobile application where users have access to the latest news. The main focus of this application is to collect news articles from all around the world and deliver them to the user as fast as possible and with the help of google’s material design, we can deliver the data in the best visual way.

Keywords: Mobile application, Android, Material design, API.

1. Introduction

Technology has revolutionized the printing press industry. It can be a journey from the press to news websites, and in the face of ever-changing news applications, the power of technology is constantly evolving to suit the needs of the current tech-savvy generation. In this fast-paced world where people have little time to spend with their families, it is hard to find time to read the newspaper and stay up-to-date with the latest news. Reading a newspaper can sometimes be a time to consider the size of the article. The fact is that all three of the aforementioned methods exist by adding and subtracting challenges to each other at the same time. News organizations have created equality in all three ways. Each media is rich in content and unique in its own way. Which leads to greater customer reach and increased popularity among the people.

The newspaper has been regarded as a major source of information for many people in the country due to its short

stature and portability. As other types of media came later and enjoyed complete freedom in its operation. At that time, Magazine got into the picture and gave the media a new avatar print by creating a separate market for itself. Now, people have another place, and they rate it as an important source of information. However, due to the advent of technology these two approaches had to keep pace with the ever-changing market. Since then it has come a long way and many changes have taken place to meet the changing needs of consumers. Prior to the advent of applications, the print media industry was relatively limited. The media relies solely on printed form. No one ever thought of using news and information except newspapers or magazines.

The establishment of the World Wide Web (“WWW”) in 1991 provided the media to print digital form. Computers are very popular and a necessity for working people. Digital media is currently leading the entire industry. Another history. The year 2008 saw the emergence of the term “app” - a short form of the term “application software” that exploded the demand for smartphones, tablets and mobile devices in the market. Now we have apps for everything from news, games, cooking, driving, etc. He says it and he has it. The explosion of numbers and a variety of applications, due to user needs, has opened the way for access Visual information is immediately visible. To make things easier, this android app gets the latest news according to your preferences. Clicking on a news item will redirect you to the actual news page. Whether knowingly or unknowingly, we are reaping the benefits of technology everywhere. News apps not only provide instant information but are also constantly updated with news thus providing a better way to exchange information between their users compared to mainstream media such as a newspaper. Android provides a simple application structure and requires knowledge of Java languages and Markup to work with it. Like, different moves bring a single user interaction screen and the whole service completes the task in context.

API (Application Programming Interface) which is the intermediate link between different applications. Provides automation, speed, flexibility and personalization. The API gives us a source of news articles from many different sources in one place and updates it. In 2014, Google’s design language called Material Design based on “cards” uses grid-based structures, responsive animations, push effects and depth as a shadow to create responsive, attractive and easy user

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interaction. With the use of different libraries and layout it is possible to use an attractive UI. The growth in mobile news access further accelerates the flow of online news buyers. Mobile news access is closely linked to continuous updates, the 24-hour environment of digital news services. But if users are now out of the media, they need more than ever to make that access more flexible and personal. Personalized news services are already able to help people find relevant news, recommend relevant news to the right users, and help users learn about news by integrating it into multiple sources. This flexibility is achieved in a number of ways which include: personalizing news content by pressing predictive filtered articles to match users' interests; dynamic news browsing by changing the order of the news categories; and compilation of stories, by automatically identifying the main news headlines from multiple sources. This previous adaptation work in digital news access focused on the content recommendation. Personalization of media access clearly needs to go beyond 'what' content users have access to 'how to access' it, as evidenced by the multitude of mobile news apps that offer personalization features.

A. Programming Code

JAVA programming codes for building the application, XML (Extensible Markup Language) have been employed to give this application a good appearance.

B. Tools for Development

To develop the application, Android development tool (Android Studio) and phone emulator has been used.

C. How it works (Requirements)

To run this application the android phone should be of version minimum 5.1 Lollipop and 256MB. At Least RAM memory space is required on an android device. The device must have better internet connection settings.

2. Literature Survey

Millions and millions of people all across the world now depend upon apps to shop, play, read, date, learn, work out, take photos, and find directions. Apps today have emerged for every possible need and requirements in a person's day-to-day life. "Apps bring out the human part of technology," says Scott Steinberg, a consultant and professional speaker on innovation in St. Louis. Similarly, News apps provide the bulk of information where previously the print media industry was enjoying the monopoly. News apps offer easy access to every kind of information. Instead of buying a newspaper of every publisher and adding to the clutter in your bag or on your office desk, it is way easier to open a news app in your smartphone and scroll news on the screen. Besides, news apps save trees. Today a shift from not only the print media but also the websites is clearly witnessed.

Readers are increasingly looking for added features to boost their reading and efficiency. When deciding to purchase the e-reader version of a newspaper or magazine, more than 50 percent of those surveyed look for the ability to search for related content, additional content not available in print, and

video that supplements the stories they are reading. Native news apps are expensive and difficult to maintain. Native Publishers like BBC News or NY Times uses their own writers to manage articles and manage it. Many native newspapers are divided because of this which causes in lack of resources from one side. Android structure provides great capability with frameworks, libraries and APIs, with the help of it we can provide better user experience and combine these sources at one place while maintaining integrity of its owner. "Guardians API" provides API that returns JSON (JavaScript Object Notation) metadata for headlines and articles live all around the world at any time. In this app we will be using this API for our better experience. Guardian provides a playground where you can explore the API's requests and results. There is also easy-to-follow documentation and supportive community to help you make the most of the API. Personalisation of news access clearly needs to extend beyond 'what' content users access to 'how' they access it, as evident in the abundance of mobile news apps offering personalisation features. For example, Inside.com – Breaking News allows users to select news topics to follow and then provides 300-character summaries of relevant stories along with links to the original sources. Second example is Newsbeat, again an aggregator but one that creates 'personalized radio news bulletins. Users select their preferred text news sources from which stories are pulled each day, summaries created, then news podcasts created using text-to-voice technology. Third example is Flipboard, which uses the metaphor of a 'personal magazine' to present articles from conventional news providers as well as social media updates, and RSS feeds. User's curate and share their own mini-magazines within the app, drawing in stories on their preferred topics.

3. Existing System

Native news apps are expensive and difficult to maintain. Native Publishers like BBC News or NY Times uses their own writers to manage articles and manage it. Many native newspapers are divided because of this which causes in lack of resources from one side. Android structure provides great capability with frameworks, libraries and APIs, with the help of it we can provide better user experience and combine these sources at one place while maintaining integrity of its owner. We read newspaper that requires lots of trees to be cut every day. Newspaper's process is time consuming as it takes a whole day to find out the news, print it and publish it. On the other hand, we are proposing a news app that is to be developed and run-on android platform.

4. Features Controlled by Proposed System

Mobile is the future of software development. Usage of mobile has increased in the past years. India stands second in the world, in a number of active mobile phones. Android is open-source Linux-based operating system designed mainly for smartphones and tablets.

A. Short News

News will be displayed in short format with title, image and little description in list view. It will help user to access required

news faster.

B. Search Option

User will be able to search from not only one source but many different sources available within API.

C. Accessing All Types of Media Files

Keeping our users engaged with visually appealing media files is an excellent way of grabbing their attention towards our news app. We can enable access to all types of media files on our app for enhanced user experience.

D. Ad-Free

Who likes to get interrupted while immersed in reading informative news? No one, right? Getting rid of ads can help us gain maximum users on our news app. This feature will allow users to enjoy news reading hassle-free, which will result in maximum user engagement.

E. No payment required

Many popular news media allow access to readers only after a paid subscription. But our news app is free to use.

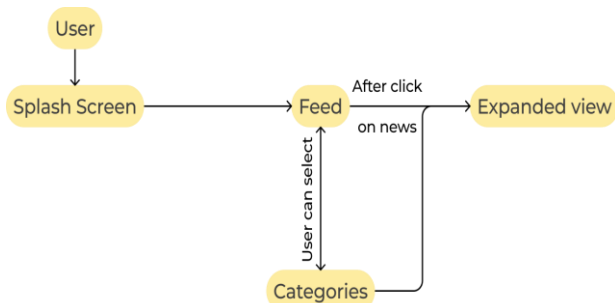


Fig. 1. System architecture

5. Conclusion

Designing an app for a smartphone is no easy task. This

project has been about much more than just the project, about accomplishing the construction of an app. Far more of the real success of the project is based in the fact that we learned new skills doing the work. We grew as a human being, developed new talents, and has begun honing them into new tools that will help to accomplish even greater tasks. We created this news app by following the standard design process. This is fast evolving world with modernization taking a toll on the world people now-a-days prefer to spend time more on their mobile rather than read a newspaper. News app is an Android application which makes newspaper reading much interesting and easier the easier easily usable UI makes this application user friendly and saves time. We explored the feasibility of recognising patterns of news reading interactions and evaluated three adaptive interface designs for different news reader types. We show that from their interaction log, a specific user can be recognised as one of three kinds. The reader types emerging from the online survey are well defined and distinct. The evaluation of the three variant interfaces suggests that different news reader types need different user interfaces. We have demonstrated a method for monitoring users' news reading behaviour and inferring news reader type from it. In the future we will further explore the design of adaptive interfaces, in order to be in a position to demonstrate a complete adaptive mobile news framework providing automatic personalisation of news apps.

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