

## Article

# News-Buffer: A Global News Aggregator for Real-Time, Location-Based Updates

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**Abstract:** Mobile devices have become indispensable instruments for staying current, thanks to the revolutionary change brought about by the rapid rise of technology. With an emphasis on giving users real-time access to worldwide news in an engaging and aesthetically pleasing format, this Android news app is meant to bring the latest news from more than 120 newspapers across 50+ countries. This app fills a need in the media application industry by providing quick access to news stories, which is becoming increasingly important as mobile internet usage continues to rise. One of the app's strongest points is how well it compiles and displays news stories from around the world. To keep the platform current and relevant, it has an admin interface for managing news that writers or admins can use to add, edit, or remove content. Also, users can get news stories that are particular to their area thanks to a module that uses their current location. This function, together with the app's built-in ad choices, shows how the app may be a great tool for brand marketing by letting companies advertise their wares within the news stories themselves. In order to guarantee the system's ongoing growth and relevance, this research application system conducts literature studies, market research, and comparative analysis to examine future development trends and strategies for media apps.

**Keywords:** Android Mobile Application; Market Performance; API Application Programming, Scroll the news; Countermeasures; Interface Designing Part; User Clicks on the View; New Media Industries.

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## 1. Introduction

Working with Android necessitates familiarity with the Java and Markup languages, and it offers a straightforward application structure. Take the scenario where a single action brings up a single interface screen and a service takes care of the rest [1]. We can complete individual modules and then merge them into a single project. Subsequent modules can likewise be readily added. A middle-ground interface between various applications is the Application Programming Interface, or API [2-5]. It offers customization, speed, adaptability, and automation. The News API consolidates and regularly refreshes news stories from a wide variety of sources. To fill the API gap, authors can use an old-fashioned admin panel to increase the sources. The "cards"-based Material Design language was developed by Google in 2014. It employs responsive animation, padding, grind-based layouts, and depth effects like shadow to produce an aesthetically pleasing and user-friendly UI [6-15]. An appealing user interface can be implemented by utilising several libraries and material design principles. In order to provide the latest news

to the user, this Android app retrieves it from the internet through API calls. Users can scroll through a list of news items in this application. At regular intervals, the news will be automatically updated, or the user can manually reload the page [16-20].

Android offers a straightforward framework for applications and necessitates familiarity with the Java and Markup languages for development. To illustrate the point, consider a scenario where a single action provides a user interface screen and a service handles the rest. We can tackle each module independently and then merge them when we're done. It will be easy to add additional modules in the future [21-25]. An Application Programming Interface (API) mediates communication between programmes. Instantaneity, customization, adaptability, and automation are among features it offers. With News API, we have access to up-to-date news stories sourced from a multitude of sources in an one location. The API gap can be filled by writers using an old-fashioned admin panel. Google introduced its Material Design language in 2014. It's based on "cards" and use features like responsive animation, padding, and depth effects like shadow to make UIs that are appealing, easy to use, and responsive [26-31]. Creating a visually appealing user interface is feasible with the help of many libraries and material design principles. This Android app displays news stories retrieved from the internet through application programming interface (API) calls. This software displays a list of news items, allowing users to scroll through them. Either the user can manually update the news at regular intervals or utilise the refresh button [32-37].

We must first gain a thorough comprehension of the issue at hand. We should develop a programme that can update them on breaking news through their mobile devices. Users will find it really convenient that the whole piece of the news will appear in their browser the moment they click on the view [38-41]. Here are some ways to demonstrate it: An app that shares news stories aims to make it easy for users to discover important stories every day and make it clear that the content they see is authentic and sourced correctly. We all thought this was a great market to tackle because it serves such a diverse clientele, and we had never seen a user experience case study on the subject before (culturally, economically, and socially). We also got the impression that a lot of people use news apps, but that this is a relatively uncharted territory with plenty of room for growth. We came to the realisation as a team that we each bring unique expertise to the table, and we were confident in our ability to jointly and strategically address this problem statement. The fact that we all had diverse opinions on how often people should read the news was also intriguing. The user may lose access to crucial information because they delete spam messages without reading them [42-47].

#### **Aim of the project:**

Software that provides people with news extremely readily is the goal of the project. In order to provide the latest news to the user, this Android app retrieves it from the internet through API calls. Users can scroll through a list of news items in this application. At regular intervals, the news will be automatically updated, or the user can manually reload the page. The complete news storey will be opened in the browser when the user clicks on the view.

#### **Project Domain:**

Android development is the focus of the project. The algorithms used in Android development vary according to the needs of the project.

#### **Scope of the Project:**

The newest headlines from 120+ newspapers in 50+ countries are available to users of this news app, which is an Android mobile app. Connecting news stories from around the world and delivering them to users in the most visually appealing way possible is the major focus of this programme

## 2. Materials and Methods

In order to provide the latest news to the user, this Android app retrieves it from the internet through API calls. Users can scroll through a list of news items in this application. At regular intervals, the news will be automatically updated, or the user can manually reload the page. The complete news storey will be opened in the browser when the user clicks on the view. Virtualizing the news and its features with users is one of the factors in effective news app development. When building an Android app, material design is a lifesaver since it allows for a seamless experience with personalised layouts, views, and animations. A variety of categories, nations, and publications ought to be accessible within this news app. Views of short news stories, such as a list with a headline, brief description, and image preceding the display of a complete article, can aid consumers in narrowing their news search. To make things easier and faster, you can utilise View Holder with this list view. To improve picture handling, a library like Picasso can be utilised. The complete article will be made available in web view form via this user interface's connection to the API and the Admin Panel database. The author's credibility will remain untarnished as a result of this arrangement.

### Literature Review

This article examines the dynamics of media convergence, looking at how the new media and legacy media businesses have changed to stay up with the times and how user reading habits have changed as a result. With the introduction of the original iPad in 2010, the app culture took off. It was viewed by organisations and developers around the world as a chance to broaden their influence in many industries [48]. Another industry that is lagging is mobile news apps. This article examines the dynamics of media convergence, looking at how the new media and legacy media businesses have changed to stay up with the times and how user reading habits have changed as a result. In order to comprehend the organization's alterations to its associated news app in comparison to its conventional media outlet, the study relies on interviews with media professionals in the sector. Using these stories as a springboard, researchers were able to conduct an audience survey that probed the effects of mobile news app content on readers' habits and consumption patterns. The meteoric rise of news applications can be attributed, in part, to user behaviour traits such a lack of focus, insufficient free time, and an overwhelming amount of online media [49]. They were able to better understand user behaviour and the factors driving the merging of old and new technologies, which helped them create mobile app user interfaces that were both immersive and easy to use [50].

This article follows the evolution of personalization on US and UK national news websites over the last several years, shedding light on the motivations behind and consequences of this adaptive interaction trend. The study documents the range of personalization features offered by modern news websites at an unprecedented level of detail. It uses three content surveys conducted over three and a half years to show how news organisations are increasingly depending on software algorithms to predict readers' content preferences [51]. According to the findings, news companies are still in the early stages of deploying personalization on mobile devices and in conjunction with social networking platforms. Discussions on the future of journalism funding, transparency, and social benefits are enriched by this paper's examination of personalization, a topic that has received little attention despite its importance and prevalence. Since human-to-human interaction has been the subject of much research in the news industry, we will not be addressing it in our methodology (see Thurman and Hermida, 2010). Since this is a standard part of every news website, it also doesn't have navigational interaction. This study distinguishes between two separate forms of personalization in its approach. Unlike implicit personalization, which employs data acquired, for instance, through a registration process or software that watches user activity, explicit personalization relies on direct user inputs [52].

An important part of making a good news app is making it easy for users to see the news and all its features. When building an Android app, material design is a lifesaver since it allows for a seamless experience with personalised layouts, views, and animations. A variety of categories, nations, and publications ought to be accessible within this news app [53]. Views of short news stories, such as a list with a headline, brief description, and image preceding the display of a complete article, can aid consumers in narrowing their news search. To make things easier and faster, you can utilise View Holder with this list view. To improve picture handling, a library like Picasso can be utilised. The complete article will be made available in web view form via this user interface's connection to the API and the Admin Panel database. The author's credibility will remain untarnished as a result of this arrangement. Various news sources have been aggregated using the News API. In response to a request, it will provide data in JSON format, which includes information such as the following: author, time, URLs of images and articles, title, description, and source ID [54].

We must process and convert this JSON data type into the string format that we need. This component of the programme manages the database logins for users and writers. As needed, writers can update, delete, and add news to its database [55]. Only the Main Admin will have access to the database, while writers will only be able to visit the admin panel. Anyone in charge of the site can add users, writers, and news stories. It can be deleted, edited, or approved by him. This strategy allows us to establish a network of local writers and administrators who can supply news on a neighbourhood or city level. We can also include a location component to keep local news up-to-date [56].

This paper's algorithm should start by collecting data on how and what people read the news; the results showed that there are mainly three categories of readers [57]. The necessity to tailor news experiences led to the development of an Android news app that records user activities in response to the proliferation of mobile news consumption. It is clear that there is a need to personalise app engagement, as we utilised the logs to instruct tablets. We present the results of three trials that used an Android news app that restricted user engagement [58].

Technology and social media have become an integral part of people's daily lives. People have grown accustomed to social news sites over the last several decades, but there has been a rising need for features that improve and simplify people's lives in the last few years. A new generation of enthusiastic software engineers and developers has emerged, spurred on by the industry's meteoric rise in mobile technology [59]. Freeware for smartphones and rapid news services that work across platforms have been the subject of numerous attempts at development. In order to determine whether news app features are supported, a pilot case study was conducted. The testing module is a part of the created prototype. In order to standardise the development process for the clients, web services that provide the newest news over the internet are used. This field studies ways to improve and expand smartphone capabilities in order to put the world at people's fingertips and make all news updates simple and easy to use [60]. The goal of this project is to create a mobile news app that will simplify people's life by providing them with up-to-the-minute news updates and connecting the entire world at the touch of a smartphone screen. According to the studies, in the past, individuals would pay to receive their news in the form of newspapers. The television was utilised, which was excessively time-consuming, and the level of privacy required to access individualised news feeds about sensitive topics was insufficient [61]. The "Mobile News Application for Android" is an attempt to circumvent all of these problems by providing a means for users to protect their databases and put them to good use in a variety of other ways. We must integrate the screen sharing feature and double the security encryption to ensure the utmost security for all confidential information and news, particularly for those who use the application for business purposes [62].

This article follows the evolution of personalization on US and UK national news websites over the last several years, shedding light on the motivations behind and consequences of this adaptive interaction trend. The study documents the range of personalization features offered by modern news websites at an unprecedented level of detail. It uses three content surveys conducted over three and a half years to show how news organisations are increasingly depending on software algorithms to predict readers' content preferences [63]. According to the findings, news companies are still in the early stages of deploying personalization on mobile devices and in conjunction with social networking platforms. This study adds to discussions on journalism's future financing, transparency, and social benefits by tackling the understudied but significant—and more common—phenomenon of customization. This study records and analyses the rate and character of personalization's adoption by eleven national news websites in the US and UK during a three-and-a-half year period [64]. It tackles the lack of attention personalization has received from journalism scholars. Section one provides a definition of the term while sections two and three detail the authors' taxonomy of customization. The results are presented first, and then the discussion and conclusion touch on some of the broader issues that come up. These include the ethical, democratic, and psychological concerns that have always surrounded personalization, as well as the economic ramifications of personalization for news providers. Since human-to-human interaction has been the subject of much research in the news industry, we will not be addressing it in our methodology. Since this is a standard part of every news website, it also doesn't have navigational interaction [65].

From a liability standpoint, the car owner is still fully responsible, and the maximum liability for injuries is now 10 million euros and 2 million euros (for property damages). The Energy Performance of Buildings Directive, which was amended in May 2018 to mandate the construction of electric vehicle charging stations in new residential and non-residential buildings, is set to undergo incremental revisions in the European Union, according to Knox. By 2020, the German federal government hopes to have one million electric vehicles on the road, and by 2030, they hope to have six million. A standardised European charging port is required by legislation for all new charging stations as of 2016. Germany has also established regulations for hydrogen refuelling stations; so far, 46 stations have gone live, and another 33 are due to go live before the year is out [66].

On the other hand, studies examining non-technical aspects, including the viewpoint of consumers, are scarce when it comes to facial-recognition payment and the variables impacting consumer intent to use. Problems have arisen due to the proliferation of face recognition as a payment method [67]. Consequently, the purpose of this research is to identify what makes people more or less likely to use payment systems that rely on facial recognition. The face recognition payment system's feature variables chosen for this study include visibility, social image, expected effort, and security. This paper's findings demonstrate that consumers' intent to utilise the system is influenced by factors such as safety, security, visibility, and social image [68]. Customers' perceptions of its utility can also impact their intent to utilise. Perceived usefulness acts as a mediator between the amount of effort anticipated and the intention to use, which in turn affects the intent to use. The article explains that the connection between security, expected effort, and usage intention is moderated by the Openness attribute, which is a part of a consumer's personality [69].

A large number of people in the civil society believed that someone had tapped their phones or installed spyware to monitor their messages. Some journalists, particularly those covering defense-related stories or other fundamental issues of national security, felt singled out [70]. As the level of monitoring increased, civil society activists believed they had no choice but to change or alter their findings, especially if it painted a poor picture of



the state. The Pegasus affair (described below) has brought targeted surveillance of journalists in India into the public eye, but this practise has been around for a while. Among other things, "a general perception that every single journalist is under the government scanner and all their activities are under surveillance," according to a comprehensive report published in March 2016 by the Editors Guild of India, showed that journalists in Bastar, a conflict region in south Chhattisgarh, were unable to function fully [71]. 2 Claiming that "the cops are listening to every word we utter," journalists have opted not to discuss anything over the phone. 3 It is also crucial to investigate the chain of events in India's online space that led to the NSA's access to private data and the erosion of privacy in encrypted messaging services (via "traceability" and other methods). Any possible regulatory improvements must strike a balance between these concerns because they involve a unique combination of opposing policy interests [72].

### **Project Description**

Students currently have to enter their information by hand into the system. Keeping the news management system up-to-date for usage is going to be a pain. Retrieved news stories require more human work. Additionally, the monthly and weekly records are not easy to retrieve. It is necessary to visit the library in order to acquire news regarding the college or events surrounding it.

### **Proposed System**

The shortcomings of the previous system have been addressed in the revised system. In order to get more reliable results from the news management system with less effort and paperwork, this project is underway. The system's user interface is top-notch. This proposed system can efficiently generate reports. In order for the app to work on an Android device, the user must install it and then grant the app access. The application is ready for use after the installation is complete. To use Optical Character Recognition, the user must concentrate on the newspaper headline; this will provide a block of text when scanned by the camera (OCR). Clicking on this text block reveals another clickable text view. It sorts videos by length, amount of views, and date of publication to bring us the most relevant results when we click on them. The user can save time by watching the videos instead of reading the entire article. It takes less time than reading a newspaper [73-80].

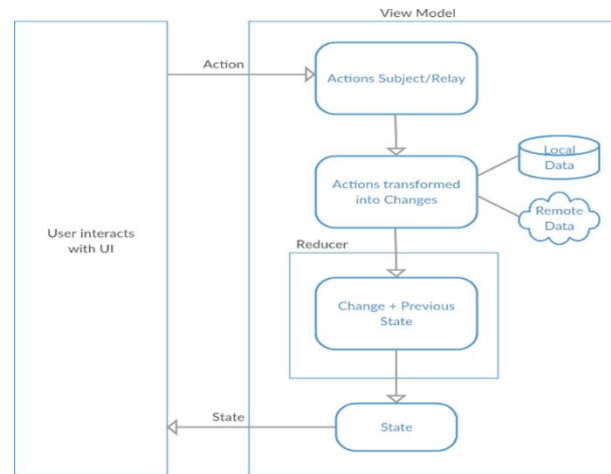
The interface is simple and quick, and the videos make the material easy to understand. Newspapers, magazines, and an attractive user interface that saves time. This project seeks to save time and reduce paperwork in order to generate correct results from the news management system; the suggested system has evolved to solve the disadvantages of the present system. The system's user interface is top-notch. This proposed system can efficiently generate reports. The eventual goal of this project is to create an app that shows only verified and approved news items and videos. Various categories allow users to view news articles and videos. Details, photos, and videos from the news will all be accessible through the app. To save any news storey or video for later, users can also "bookmark" it. There will be three distinct kinds of app backend users. One position will be an admin manager with complete control over the system's backend, including the ability to create and edit users and material. Editors will have restricted access to backend functions, while reporters will be the other two users. Journalists will be responsible for writing stories and making videos. The onus for publishing the reporters' contributed articles and videos will be on the editors. The administrator will add both users to the system [81-85].

### **Advantages of Proposed System**

Data storage and retrieval are both facilitated by the suggested system, making it easy to use. In addition, the suggested system has a graphical user interface, so it's easy for users to navigate and operate. Users will be able to view news updates according to their needs thanks to the suggested system's news management system. The data is instantly

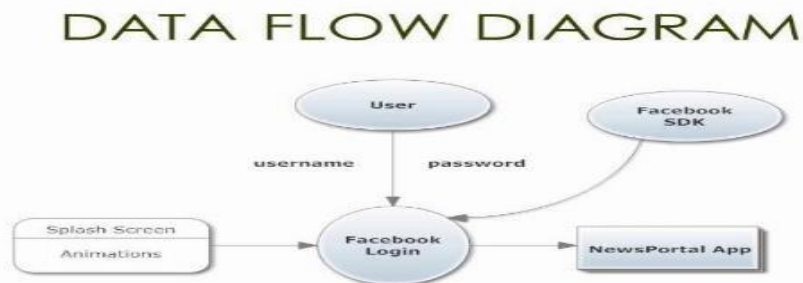
loaded into the programme, and it is possible to generate news data using an application. In addition, we can now obtain the news status every day, and work has become quite easy.

### Module Description



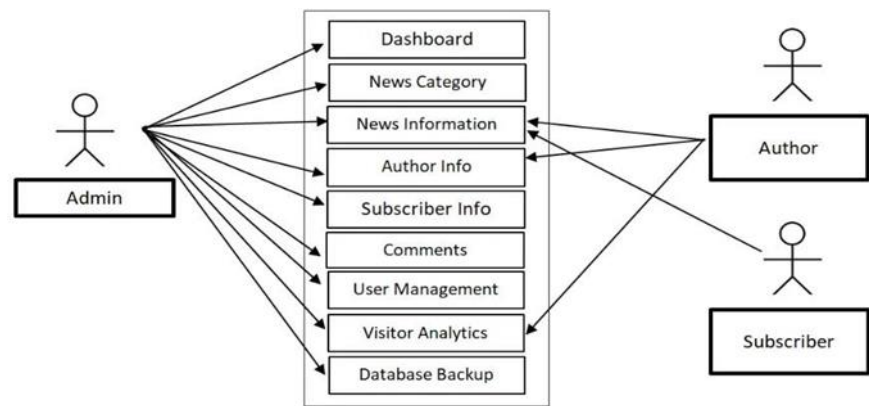
**Figure 1:** Architectural Diagram of News Application System

A good Application Architecture Diagram for software engineering and cloud-native apps is shown in Figure 1. Included in this sort of diagram are software components, their interactions, and their properties; it serves as an overview of the software's fundamental structure. Additionally, it has the ability to communicate with third-party components including users, databases, and services. The components are depicted in this style of diagram using basic shapes and lines [86-91]. Management and other stakeholders can more easily understand the application's structure thanks to the basic design. You can use Application Architecture Diagrams to see how combining, upgrading, or replacing current apps could affect the system.



**Figure 2:** Data Flow Diagram of News Application System

The process flow of our project is depicted in Figure 2. Wearables, sensors, and mobile apps are among the initial data sources culled. The Online News Portal's First Level Data Flow Diagram (1st Level) illustrates the system's architecture in terms of its constituent sub-systems, or processes. These sub-systems handle various data flows to and from external agents, and collectively, they offer the system's overall functionality [92-99]. The document also specifies the internal data stores that must be available for the News Portal system to function properly, including Category, foreign news, weather news, news type, and content. It demonstrates the information flow among the numerous sections of the system, including News, Content, Category, International News, and Weather News. A more in-depth breakdown of the first-level DFD components is provided by DFD Level 1. You are expected to showcase the primary features of the News Portal [100-107].

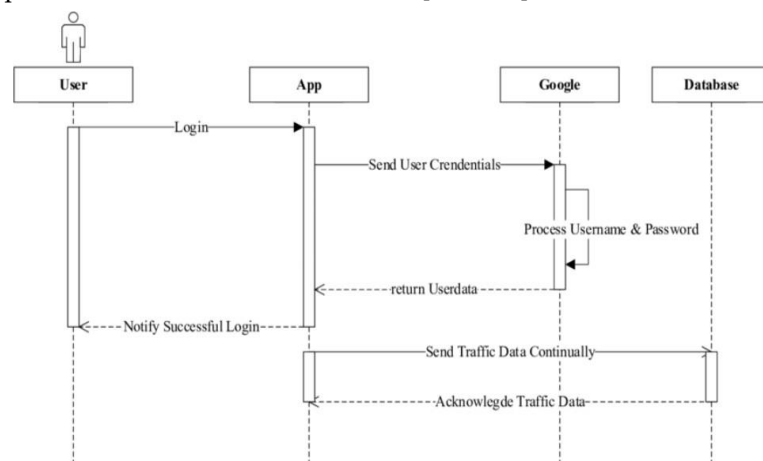


**Figure 3:** UML Diagram of News Application System

Software engineers often use use case diagrams, like the one in Figure 3, to explain how a system works from the point of view of the people or entities that have an interest in or deal with it. A use case diagram can help students see the multiple roles that the constructed system will play in their capstone project [108-113]. A capstone project might benefit from use case diagrams for multiple reasons: Their purpose is to give stakeholders an overview of the system's features and capabilities so that they can comprehend its intended use and operation. They are able to catalogue and categorise the many potential uses of the system. That way, the development team can zero in on the features and functionalities that matter most for the system. The development team can use them to better understand and record the interplay between the system and its many actors. Incorporating them into the system development process can help validate requirements and guarantee that the final product will satisfy all parties involved [114-121].

### Component Diagram

Components, required and given interfaces, ports, and linkages between kinds, news, adverts, newest postings, and content are shown in Figure 4, a component diagram of the news portal system. This diagram style is used to represent systems using Service-Oriented Architecture in Component-Based Development (CBD) (SOA). Using a Unified Modeling Language (UML) component diagram, the News Portal System may show how its physical parts are structured and connected [122-127].



**Figure 4:** Sequence Diagram of News Application System

Figure 4 shows the News Portal System's login sequence diagram, which the administrator can use to access their account. A user's ability to manage Contents, News, Types, Media, and Latest Posts is fully accessible after they log in. After logging in, users will have access to all of the protected sites, including Types, Media, and Latest Posts [128-131]. Below is a diagram that can help you understand how a News Portal System's login



page works. Users are required to validate their identification before they can access the Media, Contents, News, Types, and Latest Posts page, where numerous objects interact with each other along the sequence.

### Module Description

Training and data collection through API calls. Participants in this module will get an understanding of the many forms of data, the various ways to gather data, and the importance of collecting high-quality data for the purpose of improving family services. Additionally, the module discusses ways in which programme evaluators and managers can foster a tradition of meticulous data gathering inside their respective programmes. We go over the definition of data, the steps to gather it, and its potential benefits for both your organisation and the families it assists. Even without a formal system in place, data is captured whenever there is an interaction with a family [132-137]. Families in your programme can benefit from data in various ways, including making your services more tailored to their needs. You and your team can learn about the different kinds of data, informal data collection methods, and data that can answer queries from stakeholders by participating in the activities we've provided. We also offer a tool that might assist your group in outlining the data gathering needs of the Tribal MIECHV programme [138-141].

Gathering relevant information is the first step in building the News Application model. In order to answer research questions, test hypotheses, and evaluate outcomes, data collecting is a systematic process that obtains and measures information on variables of interest. Researchers are instructed to include at least one secondary measure to ensure the accuracy of data acquired from human subjects in the social and behavioural sciences, while main data collection is conducted through interviews. A survey researcher, for instance, may wish to learn more about the prevalence of dangerous behaviours among young adults and the societal factors that contribute to their prevalence and frequency. In order to ensure the accuracy of the data, it is possible to ask the same questions of respondents multiple times throughout the survey. Alternative metrics such as "Social Misersability" should be considered. In order to gauge how truthful people were, two things must be brought to light: 1) data quality is an issue at the observation level as it is with the entire dataset, and 2) there should be checks and balances built into the data gathering process. As a result, it is important to consider data quality for every collection of measurements, observations, and statistics. There is a standard set of tools used to gather information in every academic discipline (Figure 5).

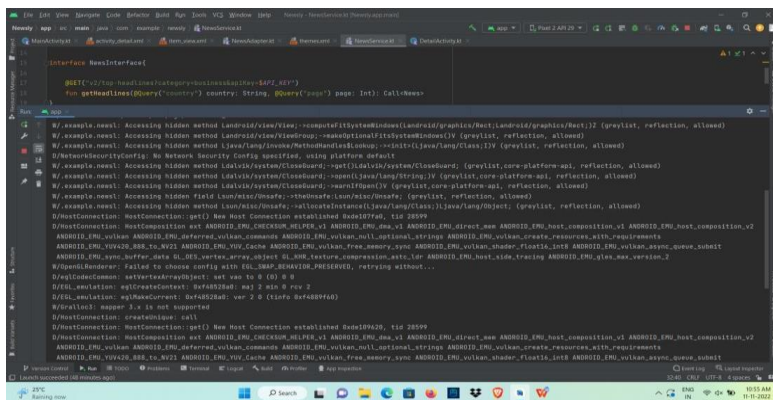


Figure 5: Processing of data

Each Android app typically launches in its own Linux process. When an application wants to execute some code, the system creates a process specifically for that purpose. Once the process is no longer needed, the system frees up its memory for other applications. One peculiar and essential aspect of Android is that the app itself has no say over how long a process runs for. The system instead takes into account the user's priorities, the amount of accessible RAM, and the application components it knows are running to make this determination. Throughout the course of an application's execution,

several components—including Activity, Service, and Broadcast Receiver—have an effect, and developers must be aware of their effects. The system may terminate the application's process while it is doing critical tasks if these components are not used correctly. Among the active components, the system will prioritise the most important level when determining how to categorise a process. For further information on how each of these components contributes to the overall life-cycle of a process, see the Activity, Service, and Broadcast Receiver documentation.

The data is partitioned after the pre-processing stage. This is merely an app with the ability to share data with other apps. On top of that, it can receive data from other applications. Think about the data kinds you wish to obtain from other apps and how users engage with your app. For instance, one app may be interested in sending text material, such as a compelling web URL, to another app that is used for social networking. In order to guarantee accurate predictions, it is essential to test the model. Using the testing set to make predictions is the initial stage. Most mobile app development businesses employ regression testing to guarantee their apps are stable and reliable for users over an extended period of time. When conducting regression testing, enterprises must think about how to make the most of their deployed devices to test mobile apps regardless of their location or time of day. The process of developing an app does not include testing the app. Before making your app available to the public, make sure it works as intended and is easy to use by running tests on it often.

### **Implementing the model**

The ability to visually represent news and its features for the user is an important component of a well-designed news app. When building an Android app, material design is a lifesaver since it allows for a seamless experience with personalised layouts, views, and animations. A variety of categories, nations, and publications ought to be accessible within this news app. To better assist visitors in finding the type of news they are seeking, short news can be shown in a list view with a header, brief description, and image prior to displaying the entire item. To make things easier and faster, you can utilise View Holder with this list view. To improve picture handling, a library like Picasso can be utilised. The complete article will be made available in web view form via this user interface's connection to the API and the Admin Panel database. The author's credibility will remain untarnished as a result of this arrangement. Functional testing is an approach to software quality assurance that aims to determine if all features of an application function as expected.

### **3. Results and Discussion**

Data storage and retrieval are both facilitated by the suggested system, making it easy to use. In addition, the suggested system has a graphical user interface, so it's easy for users to navigate and operate. Users will be able to view news updates according to their needs thanks to the suggested system's news management system. The data is instantly loaded into the programme, and it is possible to generate news data using an application. In addition, we can now obtain the news status every day, and work has become quite easy.

Understudies can refer to the present structure as a manual part. Monitoring the executive's framework status for utilisation and the news will be a tedious process. The recuperation of the is more dependent on human effort in this case. Furthermore, it is not easy to get the monthly and weekly records. They hope to learn more about the school and the community by visiting the library. The proposed framework, on the other hand, is straightforward to grasp due to its efficient data maintenance and fast data recovery and storage. The suggested framework also includes a graphical user interface (GUI), so clients

can easily manage it. In the suggested framework, news may be efficiently produced so that clients can see their news updates according to their requirements.

#### 4. Conclusion and Future Enhancements

This study proved the feasibility of creating a web app for Android that uses a network and GPS and can be deployed on Android devices with either the Android Software Development Kit (SDK) version 2.2 or API Level 8. Having access to a Wi-Fi network is a fundamental need for this application. Transferring the software to an SD card is a breeze once installation is complete. Users now have access to a wide array of tools for analysing historical change, thanks to the scale-based negotiation of the accessible maps. To that end, Ordnance Survey maps ranging in size from one inch to one mile have been employed. This project isn't just for this system; it may also serve as a platform for users to share their thoughts on other issues through comments and articles. By studying people's news reading habits, we can utilise the data collected from this effort to design a poll. Assume the reader is unhappy with the piece. If that's the case, they can resolve the disagreement over the articles by contacting the source directly and discussing the issue to find a suitable solution.

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