

# AI-BASED NEWS APPLICATION

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## Abstract:

The concept of a news application abstract involves a condensed form of news presentation that includes essential elements like headlines, leads, and visual elements to attract and inform readers efficiently. News abstracts have historical roots in traditional journalism practices, evolving towards a concise and compact format over time. Structurally, news abstracts typically consist of headlines, leads, visual elements, and additional links, with the potential for additional components like kickers, bylines, and reference formulas. The headline plays a crucial role in abstracting the main event of a story and guiding readers' attention, suggesting connections between stories and aiding in the interpretation and evaluation of events. Furthermore, news applications can utilize APIs to collect news from various sources, an admin panel for managing content, and user interfaces designed for optimal user experience and interaction with news content.

**Key Words:** Web Application, Voice Assistant, Alan AI, News API, React, Material UI

## 1.INTRODUCTION

A news application serves as a platform to deliver news articles, videos, and updates to users in a convenient and interactive manner. These applications are designed to provide users with access to a wide range of news sources, allowing them to stay informed about current affairs from around the world. News apps can offer features such as real-time news updates, personalized news feeds, visualizations, and the ability to browse news by categories or locations. They aim to streamline the process of accessing news, making it easier for users to stay up-to-date with the latest information in a visually appealing and user-friendly way.

The development of news applications has been driven by the increasing demand for instant access to news and the rapid advancements in mobile technology. These apps are designed to cater to the busy lifestyles of users, offering a seamless experience that allows them to consume news content with just a click. By leveraging technologies like APIs, RESTful services, and user-friendly interfaces.

## 2.LITERATURE REVIEW:

**R. Dale et al. (2019)** worked on reviewing different areas that have contributed to ongoing advancements in the growth of voice-based technologies especially in the business sector. He explained about growth in the field of voice assistance, the battle of the giants (Alexa vs Google Assistant), Conversational ability, Tools required, privacy, synthesis of speech, and universality of voice.

**A. Karthik, V. K. Raja, and S. Prabakaran et al. (2018)** worked on constructing a device that helps visually impaired people program acknowledgment of environmental messages using an OCR sensor and Raspberry Pi. They worked on integrating Text To Speech which converts the text available in the environment to audio/speech which makes them understand and interact easily with the surroundings.

**J. Gnanamanickam, Y. Natarajan, and K.R.Sri Preethaa et al. (2021)** worked on a special algorithm which is named as Hybrid Speech Enhancement Algorithm. This algorithm is used in voice assistant applications which mainly focus on reducing errors in words. The algorithm proposed by them resulted in a maximum accuracy of 90.5% with just a 9.5% word error rate for speech data and an accuracy of 92.4% with a 7.6% word error rate for audio data.

### 3. Research Methodology:

Developing a news application involves a structured approach to research, ensuring that the app meets user needs, offers value, and functions effectively. Below is a suggested methodology for researching and developing a news application:

#### 3.1 Define Objectives:

Clearly outline the goals and objectives of the news application. This could include providing timely news updates, personalized content recommendations, fostering user engagement, etc.

#### 3.2 Identify Target Audience:

Conduct market research to identify the target audience for the news application. Consider demographics, interests, preferences, and behavior patterns of potential users.

#### 3.3 Competitive Analysis:

Analyze existing news applications to understand their features, strengths, weaknesses, and user feedback. Identify gaps in the market that your application can fill.

#### 3.4 User Needs Assessment:

Conduct surveys, interviews, or focus groups with potential users to gather insights into their preferences, expectations, and pain points related to news consumption and existing news applications.

#### 3.5 Design Prototyping:

Develop wireframes or prototypes of the news application to visualize the user interface, navigation flow, and key features. Iterate on the design based on feedback from stakeholders and potential users.

#### 3.6 Technical Feasibility Analysis:

Assess the technical requirements and feasibility of implementing the desired features within the constraints of available resources, such as technology stack, development time, and budget.



Fig 1. Working of Rest API

#### 4. EXPECTED OUTCOME:

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### 5. CONCLUSIONS:

The conclusion drawn from the sources provided highlights the significance of news applications in modern times. News apps offer quick access to a variety of information, replacing traditional newspapers and magazines. They provide real-time updates, personalized user experiences, and a platform for engagement. Key features of a good news app include categories for easy navigation, search and filter options, push notifications, engagement tools like commenting systems, social media integration, registration with personalized profiles, and personalized feeds using machine learning technology. These features aim to enhance user experience, increase audience reach, and provide upto-date news efficiently.

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