

Voice Controlled News Application

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Abstract: Newspapers have been providing us with events and knowledge nonstop for the past four centuries or so. Many creative ideas have led to more modern methods of transmitting news and information about various points of view. Since the creation of technical advances such as artificial intelligence (AI), researchers and developers have endeavored to integrate AI into several disciplines. This logical analysis seeks to improve the readability and enjoyment of news articles by utilizing the ALAN voice assistant. Because the online application is so user-friendly, the customer may inquire about news on any topic of interest by only speaking. The customer may get news through several categories, including business, sports, and more, as well as through reputable news channels

Keywords: Artificial Intelligence, Voice Assistant, React, News API, Alan AI

I. INTRODUCTION

For a very long time, news has been effectively gathered by newspapers, radio, and television. These days, we are aware of the use of Personal Digital Assistants and various PC types for identical online browsing. Although these techniques work well, news gathering has never been engaging or fun. One of the most in-demand abilities right now is voice control. As is well known, the hectic schedules of the future generation are preventing them from having enough time to sit down and read periodicals, newspapers, and other materials. to inform people about current events, international conflicts, sporting events, and other activities taking place worldwide. The Speech-driven Web Application idea provides simplicity and a technique that is easy to utilize. The framework provides a dynamic, intuitive, user-friendly, and educational client experience.



An integrated voice-activated technology within a web application that can adjust user experience and provide voice control to regulate how helpful online business locations are. The framework provides the option to filter news according to preferred category. This article presents an innovative proposal for a new web-based service that integrates React, News API, and the revolutionary new Alan Studio.

II. LITERATURE REVIEW

React, sometimes referred to as a frontend JavaScript framework, is a JavaScript library created by Facebook. React is a tool for building UI components. Instead of manipulating the browser's DOM directly, React creates a virtual DOM in memory, where it does all the necessary manipulating, before making the changes in the browser DOM. React finds out what changes have been made, and changes only what needs to be changed. You will learn the various aspects of how React does this in the rest of this tutorial.

Alan AI allows you to add a multimodal conversational experience to your app without overhead. Alan AI is an end-to-end conversational AI platform to build robust and reliable AI assistants and chatbots. The Alan AI backend takes care of most of the heavy lifting, including creating spoken language models (SLU), training speech recognition software,

deploying and hosting conversational components. To create a conversational experience, you only need one developer, not a group of Machine Learning and Dev Ops specialists.

III. TOOLS AND TECHNOLOGIES USED

Alan AI: Alan Conversational Platform [4] permits designers to make several assistants, similar to Google (Assistant), Amazon (Alexa), Apple (Siri), but confined to a particular application. Alan makes web application more adaptive with improved user interface and updates. With huge number of engineers on the Alan Community and proceeding to develop more, in-application assistants are turning into an absolute requirement for any application. Alan is an exceptionally progressed framework that incorporates BDA, ML, voice and speech recognition, NLP, and other trend setting innovations.

React: React is one of the JavaScript library used for creating UIs. It uses component-based architecture where each component is independent of each other which can be reused throughout the project. It is mainly used to build web pages and mobile applications

News API : News API is a simple HTTP REST API for searching and retrieving live articles from all over the web.

Visual Studio Code : Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET).

HTML (HyperText Markup Language) is the basic building block of the Web. It defines the structure and meaning of web content.

Cascading Style Sheets is a language describing the presentation of a document written in a markup language such as HTML.

JavaScript is a fun and flexible programming language. It's one of the core technologies of web development and can be used on both the front-end and the back-end. While HTML and CSS are languages that give structure and colors to web pages, JavaScript makes them interactive and come alive.

IV. CONCLUSION

This conversational voice controlled news application is developed using react. It allows the users to add voice capabilities and the news is fetched according to the commands given by the user

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