**Create A News Application with Python**

**Abstract:**

The News Application project is an open-source repository available on GitHub, aimed at providing a web-based platform for accessing and browsing news articles. This abstract provides an overview of the project, highlighting its objectives, key components, and functionality.

This is a News Application created using Python's Django Framework. In this application, user can search news about any topics they want. The topics can be related to any person, any location, any fields etc. Once the user searches for the topic, the topic name is stored in the database, and accordingly an API Call is made for that topic. The result is fetched in the JSON Format and displayed in the front page. For improving the display of the page, Bootstrap framework is used. The API data is being fetched from the website of News API only after registering and providing Proper API Key.

**Introduction:**

In today's fast-paced world, staying updated with the latest news is crucial. The News Application project aims to address this need by providing a web-based platform for accessing and browsing news articles. The application aggregates news articles from various sources and provides users with a user-friendly interface to read and explore news content.

**Proposed System:**

The proposed News Application system is built using Python and the Django web framework. The key components and features of the system include:

**News Aggregation:**

The news aggregation module collects news articles from various sources, such as RSS feeds or news APIs. It fetches news articles and organizes them based on categories, topics, or sources, ensuring a diverse range of news content for users.

**News Article Display:**

The news article display module presents the news articles in a user-friendly and visually appealing manner. It includes features such as article summaries, images, publication dates, and author information. Users can click on articles to view the full content.

**Search and Filtering:**

The search and filtering module enables users to search for specific news articles based on keywords, categories, or sources. It provides an intuitive search interface and allows users to filter articles based on their preferences.

**Social Sharing:**

The social sharing module allows users to share interesting articles on social media platforms or via email. It includes social sharing buttons for popular platforms, making it easy for users to share news content with their networks.

**Conclusion:**

The News Application project a web-based platform for accessing and browsing news articles. By leveraging Python and the Django web framework, the system offers user registration and authentication, news aggregation, article display, search and filtering, bookmarking and saved articles, social sharing, and commenting features. The News Application serves as a valuable resource for users to stay informed and engaged with the latest news. The project is open-source, allowing users to contribute, customize, and enhance the system according to their specific requirements.

**1.1 HARDWARE REQUIREMENTS:**

The hardware requirement specifies each interface of the software elements and the hardware elements of the system. These hardware requirements include configuration characteristics.

* + - * System : Pentium IV 2.4 GHz.
      * Hard Disk : 100 GB.
      * Monitor : 15 VGA Color.
      * Mouse : Logitech.
      * RAM : 1 GB.

**1.2 SOFTWARE REQUIREMENTS:**

The software requirements specify the use of all required software products like data management system. The required software product specifies the numbers and version. Each interface specifies the purpose of the interfacing software as related to this software product.

* + Operating system : Windows XP/7/10
  + Coding Language : Python 3.7