**Developing a News API Web Application with Pagination and Sorting Functionalities**

**Overview:**

Create a web application that fetches the object from the NewsAPI based on specific categories or keywords. The application should allow users to search for news articles using JPQL (Java Persistence Query Language), implement pagination and sorting functionalities for efficient article retrieval, and ensure transactional behavior when interacting with the NewsAPI.

**Functional Requirements:**

* Controller: Establish a "Controller" folder within the "src" directory of the Spring Boot application.
* ApiController: Develop an "ApiController.java" file in the "Controller" folder to handle API requests.
* Service: Implement READ operations for accessing news articles by creating a "Service" folder in the "src" directory.
* NewsService: Inside the "Service" folder, create a "NewsService.java" file to interact with the NewsAPI.
* NewsAPI: Utilize the NewsAPI to fetch news articles.
* Access the API at <https://newsapi.org/>.
* Example API Endpoint: Use the following API endpoint to retrieve news articles based on specified country:
* GET – “[https://newsapi.org/v2/top-headlines?country={country}&category={category}&apiKey={API KEY}](https://newsapi.org/v2/top-headlines?country=%7bcountry%7d&category=%7bcategory%7d&apiKey=%7bAPI%20KEY%7d) --> Returns the latest news articles for the specified country.

For Ex, <https://newsapi.org/v2/top-headlines?country=us&category=business&apiKey=APIKEY>

**Additional Requirements:**

* GET - "/news/source/{source}"

Example Request:

GET /news/cnn -- >This request would retrieve news articles from the source "CNN".

* GET – “/country/{country}/category/{category}
* GET – “/country/{country}/category/{category}/{pageNumber}/{pageSize}/{sortField}"