The Midnight Times | JSE

ADVARISK/TASKS/JSE/001

Objective:

Build a customer facing web based application where a user can search for news articles from around the world based on the entered keyword. Also create a web portal for them to view results of their previous searches.
You may use this API: [News API – Free JSON API for Live News and Blog Articles](#)

Features

Minimal:

- Page to search for a particular phrase or keyword. Store the results locally.
- Page reflecting a list of searches being made & its results. Open the original news article in a new tab.
- Add a button to refresh (fetch latest) search results.
- Sort search results based upon the "Date published".
- A README.md file with steps to setup, exact time you took while building this project, overall experience of working on this project, etc.

Expected:

- Proper documentation of each method/module using docstrings.
- Admin page to add/block a user.
- While refreshing the search results, query only for new results, e.g., If we already have results for "Tesla" till 31st December 2020. Fetch news articles published after that.
- Prevent frequent searches for the same keyword, e.g., we should not make multiple requests to the News API within a set threshold (say 15 minutes) period.
- Add filters for Date published, Name and Category of source & Article language to the list of articles for a given keyword.
- Add authentication for every user enabling them to see keywords that only they added.
- Don't create a new keyword search for pre-existing keywords in the user's account. *We'll be looking forward to how you manage to optimise UX here.*

Bonus:

- Proper usage of HTML5 tags.
- Proper usage of Python/Django built-in utilities.
- Proper usage of environment variables & global configurations.
- Clean code; ensuring readability & maintainability of the written code.
- Show the original news page in the same window. *Also explain your choice of UI element to serve this purpose.*
- Add a background job to automatically refresh search results at a given interval.
- Admin should be able to provide a per user quota for the number of keywords they can track.
- Add dashboard on admin page to see trending keywords (most searched keywords from multiple accounts) & a way to select custom intervals for background searching this keyword.

Timeline:

3 days.

ALL THE VERY BEST