

Cyber/ Web
Application
Computer Science
Faculty

Negative Cyber News

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Introduction

Negative cyber news is a website that its goal is to present reports/articles about recent cyber attacks on companies. The application includes a search engine in which the client is able to type in a company name and submit a request. Our API will then scrape the web and withdraw relevant recent articles concerning cyber attacks that occurred to that company. In order to make a use of the application, one must authenticate.

Conclusions

The end product of the project mostly did meet our expectations; therefore, we consider the project as a success.

- Fully implemented user registration and authentication features, with database that stores the users' credentials.
- Fast search engine that shows the latest and most relevant results.
- Modern design to the website.
- Fully implemented error handling and error presentation to the user.
- Complete separation between client and server.

Methodology

The cyber-attacks reports are collected from credible resources involved in the cyber industry, in the role of open-source intelligence. Each resource that is being used has been tested and chosen because it has the most recent and reliable reports.

The web application contains several parts: the server-side will handle authentication, authorization and user's search requests. The database (MongoDB) stores the registered users. Moreover, it manages the scripts that are responsible for the web-scraping. These scripts are written in Python. The client-side was built in React and it includes a modern UI. The articles will be presented to the user once a search is being committed.

Discussions

- An additional improvement possible for the application is to scrape a website or twitter page that displays the latest CVEs once a day and displaying them in the web in a new route.
- Adding features that include machine learning to improve the search function.
- Adding score to each result that indicates its credibility.

