

**Bouira University, Computer science department**

**Subject Master ISIL/GSI**

**Title :**

**Development of a search engine for Hadith**

**Supervisor : Taha Zerrouki ; Maître assistant à l'université de Bouira.**

**Objectif :** development of an open source search engine in the Hadith

**Description :**

A hadith (Arabic: ) is an oral communication of the prophet Mohamed ( ), and, by extension, a collection that includes all the traditions relating to the prophet's and his companions' acts and words, each preceded by a chain of transmitters going back to the prophet.

The work entails creating a search engine in order to provide users with a feature-rich interface and developers with a rich API.

The following points are included in the work:

- Research the hadiths' informational aspects.
- Create advanced search functionality in Hadith databases.
- Semantic aspects of hadith modeling

**Keywords**

*Hadith, search engine , ElasticSearch.*

**Required work**

**State of the art**

- The informational aspects of the hadiths.
- Dedicated search engines
- Candidate tools and frameworks features

**Design and release**

- Design
- Realization
- Tests

## References

- <https://www.elastic.co/products/elasticsearch>
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- Alkhatib, Manar. "Classification of Al-Hadith Al-Shareef using data mining algorithm." *European, mediterranean and middle eastern conference on information systems, EMCIS2010, Abu Dhabi, UAE*. 2010.
- Aldhlan, Kawther A., Akram M. Zeki, and Ahmed M. Zeki. "Knowledge extraction in hadith using data mining technique." *Int J Inf Technol Comput Sci* 2 (2012): 13-21.
- Aldhlan, Kawther A., Ahmed M. Zeki, and Akram M. Zeki. "Datamining and Islamic knowledge extraction: alhadith as a knowledge resource." *Information and Communication Technology for the Muslim World (ICT4M), 2010 International Conference on*. IEEE, 2010.
- Chelli, Assem, Amar Balla, and Taha Zerrouki. "Advanced Search Feature in Noble Quran." *2013 Taibah University International Conference on Advances in Information Technology for the Holy Quran and Its Sciences*. IEEE, 2013.
- Chelli, Assem. "Advanced Search/Indexing in Holy-Quran."

## Tools :

- Django (python) or Node.js (Javascript)
- <https://www.elastic.co/products/elasticsearch>
- Hadith database from Islam Ware <https://github.com/ceefour/hadith-islamware>

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