

A Webtool for Hadith Authorship and Verification with Scholarly Expertise

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Hadith

- A Hadith (which translates to speech or teaching) describes Prophet Mohammed's -Peace Be Upon Him (PBUH) - teachings, sayings, actions, or silent approvals.
 - Plural form: "Ahadeeth" or "Hadiths"
 - Ahadeeth have been observed/learned by the Prophet's companions throughout his life and were passed down across generations.
 - They were only collected or documented and authenticated many years after the death of the Prophet PBUH.
 - Ahadeeth are the second source of Islamic law after the Holy Quran
 - A Hadith has two parts
 - *Sanad*: shows the chain of narrators
 - *Matn*: The main body of the Hadith (i.e. Actual teaching or saying or action of the Prophet).
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Issue to address

- In recent years, digital databases have emerged based on Hadith books; however, these databases lack validation by Hadith Scientists.
- Example: Sahih Bukhari – one of the Hadith books, which is available digitally on islamonline.com, has multiple mistakes/errors, as shown below:

Type	Description
Matan	Hadith number 3535 was missing from the database.
Matan	Part of Hadith number 3757 was missing.
Sanad	In Hadith Number 3967, two of the narrators were substituted with well-known companions of the Prophet (Saad Bin Abi Waqas instead of Saad Bin Ibrahim and Abi Umama Al Bahili instead of Abu Umama Bin Sahl).
Chapters and Hadiths order	In the first few books, Hadiths were not ordered correctly (Note: this might be due to different editions of Sahih Bukhari) There were also errors in the ordering of chapters.
Books and Chapters	Some books have chapters with wrong title or without title. For example, in the Book of Marriage, there are four chapters, one without a title, one with the title: "Your prayers, your faith", another one with the title: "A Muslim is the one from whose hand Muslims are safe.", and the fourth with the title "Food feeding". All titles were not related to marriage, yet the Hadiths enclosed in them are about marriage.

Aim of our paper

- Our work is focusing on the preservation of the integrity of Hadith literature, that have been collected in several books.

How?

- By developing a useful and reliable Webtool for authoring and verifying Hadith literature through scholarly expertise, to develop a digital database for Hadith.

Why?

- To provide a trustworthy digital Hadith resource beneficial for scholars, researchers and the broader Muslim community.

The Webtool

- **Primary Users** : Hadith Scientists led by Prof. Saeed Al-Marri from Qatar University
- **Resources:** For validation, they
 - Utilized their vast experience in Hadith Science.
 - Used various books and specialized libraries such as “ Al-Maktabah Al-Shamelah” – The Comprehensive Library, for Hadith science.

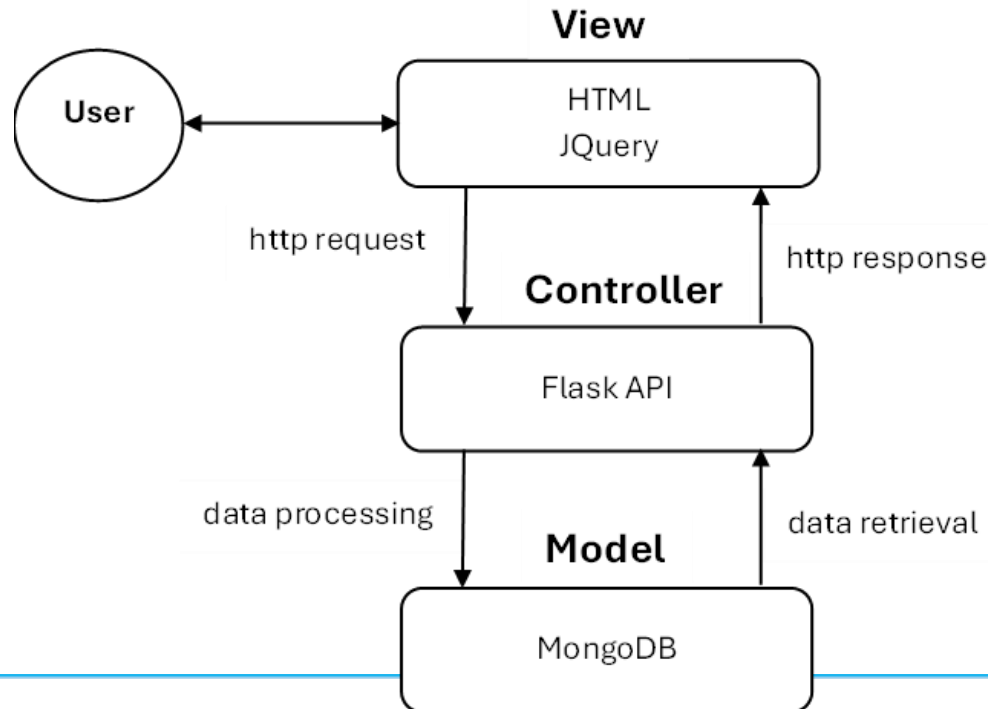
The Webtool

- **Prototype features:** Based on user feedback from initial prototype
 - Verification of Hadith Authenticity : Comments on “Matn” and “Sanad”.
 - Correction of Hadith inaccuracies.
 - Displaying and updating narrator’s details.
 - Addition of missing narrator’s details in the “Sanad”.
 - Addition of new collections, books, chapters and hadiths.
 - Refinement of Hadith order for data accuracy.
 - Input keywords for each Hadith.
- **Result:** Guided development of a verification system to meet specific needs of Hadith Scientists.

The Webtool

- **System Architecture**

The interface follows a Model View Controller (MVC) architecture which integrates various components to support data storage and retrieval of Hadith data in the form of User interaction and feedback incorporation.



The Webtool

- **Tools and Technologies**

The tool employs:

- Comprehensive architecture, integrating Flask API, MongoDB, HTML and jQuery.
- Flask API facilitates communication between frontend and database.
- MongoDB is chosen for flexible data storage.
- HTML and jQuery for user-friendly interface.
- Flask Blueprints adopted for modular organization and maintainability of codebase.

The Webtool

- Core Features and Functionalities

Login Page for secure access to the Webtool

User Login
تسجيل الدخول

Username أدخل الايميل
admin@hbku.com

Password أدخل كلمة السر
.....

دخول
Login

The Webtool

- **Core Features and Functionalities**

A main page containing the following features:

- Hadith authenticity verification, correction of inaccuracies, display of detailed narrator's information.
- Users can add missing "Sanad" and "Moallakka"*.
- Editable interface allows users to update, associate keywords, and customize the display.
- Thoughtful organization of the main page into three blocks for enhanced user accessibility.

**A Moallakka Hadiths are those with incomplete initial chains of narrators, considered "suspended" in Islamic scholarship*

The Webtool

• Core Features and Functionalities

The screenshot displays the Hadith webtool interface with several key features highlighted in red:

- Hadith:** The main text of the hadith, including the Arabic text and its English translation.
- Comments on Matan:** A section for adding or viewing comments on the main text of the hadith.
- Sanad:** A list of narrators in the chain, including their names and titles, with an option to add a narrator to the sanad.
- Comments on Sanad:** A section for adding or viewing comments on the narrators in the chain.
- Add a Moallakkah:** A section for adding or viewing moallakkahs (supplements) to the hadith.
- Add Keywords:** A section for adding or viewing keywords related to the hadith.

On the right side, there are three panels:

- Hadiths:** A list of hadiths with their titles and brief descriptions.
- Collections:** A list of collections, such as Sahih Bukhari.
- Books:** A list of books, such as the book of Eid.
- Chapters:** A list of chapters, such as the chapter of Eid.

At the bottom, there are navigation buttons for "التالي" (Next) and "السابق" (Previous).

English translation of all fields and functions are shown in red

The Webtool

• Core Features and Functionalities

Hadiths

الأحاديث

Hadith [ادخل ملاحظات حول من الحديث]

Comments on Matan [ادخل ملاحظات حول من الحديث]

Sanad [سند الحديث: عبد الله بن عمر بن الخطاب | نافع بن عمر بن الخطاب | نافع بن عمر بن الخطاب | عبد الله بن عمر بن الخطاب | عبد الله بن عمر بن الخطاب]

Add a narrator to Sanad [أضف سند الحديث | أضف للسند]

Comments on Sanad [ادخل ملاحظات حول سند الحديث]

Add a Moallakkah [أضف سنداً أو معلقة]

Add Keywords [أضف مفاتيح الكلمات | مفاتيح الكلمات]

التالي السابق

Next Previous

المجموعات Collections

الكتب Books

أبواب الكتب Chapters

الأحاديث Hadiths

English translation of all fields and functions are shown in red

Conclusion

- In this work, we presented a Webtool to authenticate and verify Hadiths.
- This work extends beyond the immediate benefits of improved access to authenticated Hadiths. It sets a precedent for future works in the digital preservation and study of Islamic texts, suggesting pathways for integrating technological solutions with traditional Islamic scholarship.
- The project's success could inspire further innovations in the field, including the development of similar tools for other Islamic texts and the adoption of advanced technologies for scholarly research. As such, this Webtool represents not just a solution to a current challenge but a steppingstone towards a future where technology and tradition blend to advance Islamic scholarship.

Thank You



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