

# Hadith Project Report

## Overview

This project focuses on the development of an interactive system for retrieving and displaying **Hadith**—the sayings and actions of the Prophet Muhammad (PBUH). The goal is to make it easy for users to search for Hadith based on keywords, topics, or collection names, and view the corresponding Arabic texts and their English translations.

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## Objectives

- To retrieve Hadith data from structured sources (e.g., APIs or datasets).
  - To allow users to search, filter, and view Hadith based on specific queries.
  - To present both Arabic and English Hadiths in a readable, user-friendly interface.
  - To explore the potential of using Python and Jupyter Notebook to build an Islamic knowledge tool.
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## Tools & Technologies

- **Python** – for scripting and logic
  - **Jupyter Notebook** – interactive development
  - **Pandas/JSON** – for data handling (assumed)
  - **Widgets/Input functions** – for user queries
  - **APIs or Pre-loaded Data** – for Hadith collection sources
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## Functionality

### 1. Data Handling

The notebook includes code that loads Hadith data, either from local files or an external API. It then parses the content to separate the Arabic text, English translation, source, and other metadata.

### 2. User Interaction

Users can input:

- A Hadith keyword or subject
- The name of a Hadith collection (e.g., Sahih Bukhari, Sahih Muslim)

The system returns:

- Matched Hadiths
- Arabic and English versions
- Book and Hadith numbers
- Narrator names (if available)

### 3. Text Presentation

Hadiths are presented in both Arabic and English, clearly formatted for readability. Additional metadata like the source and reference number is included for citation.

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#### Example Output

Collection: Sahih Bukhari

Hadith Number: 1234

Narrated by: Abu Huraira

Arabic:

...قال رسول الله صلى الله عليه وسلم

English:

The Messenger of Allah (peace be upon him) said...

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#### Use Cases

- Students of Islamic Studies researching Hadith
- Educators building Hadith-based lectures
- Muslims looking for religious guidance via authentic sources

- Developers wanting to extend the system into a website or app
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## Conclusion

The Hadith Project is a meaningful step toward **digitizing and democratizing access to Islamic knowledge**. By utilizing modern programming tools like Python and Jupyter, the project shows how religious texts can be made interactive and accessible. It lays the foundation for further development, such as integration into a web application using Streamlit or Flask.