

AI-Based Advisory System of Islamic Fatwa

A Fatwa Application to Answer Islamic Jurisprudence Questions

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Abstract

Our Chatbot helps Arabic speakers find correct and precise answers to questions about Islamic jurisprudence. The Chatbot utilized Machine Learning (ML) and Natural Language Processing (NLP) to classify the question based on the context in general and the topic category in specific. And we used a dataset that was collected from authorized websites of Islamic Fatwa.

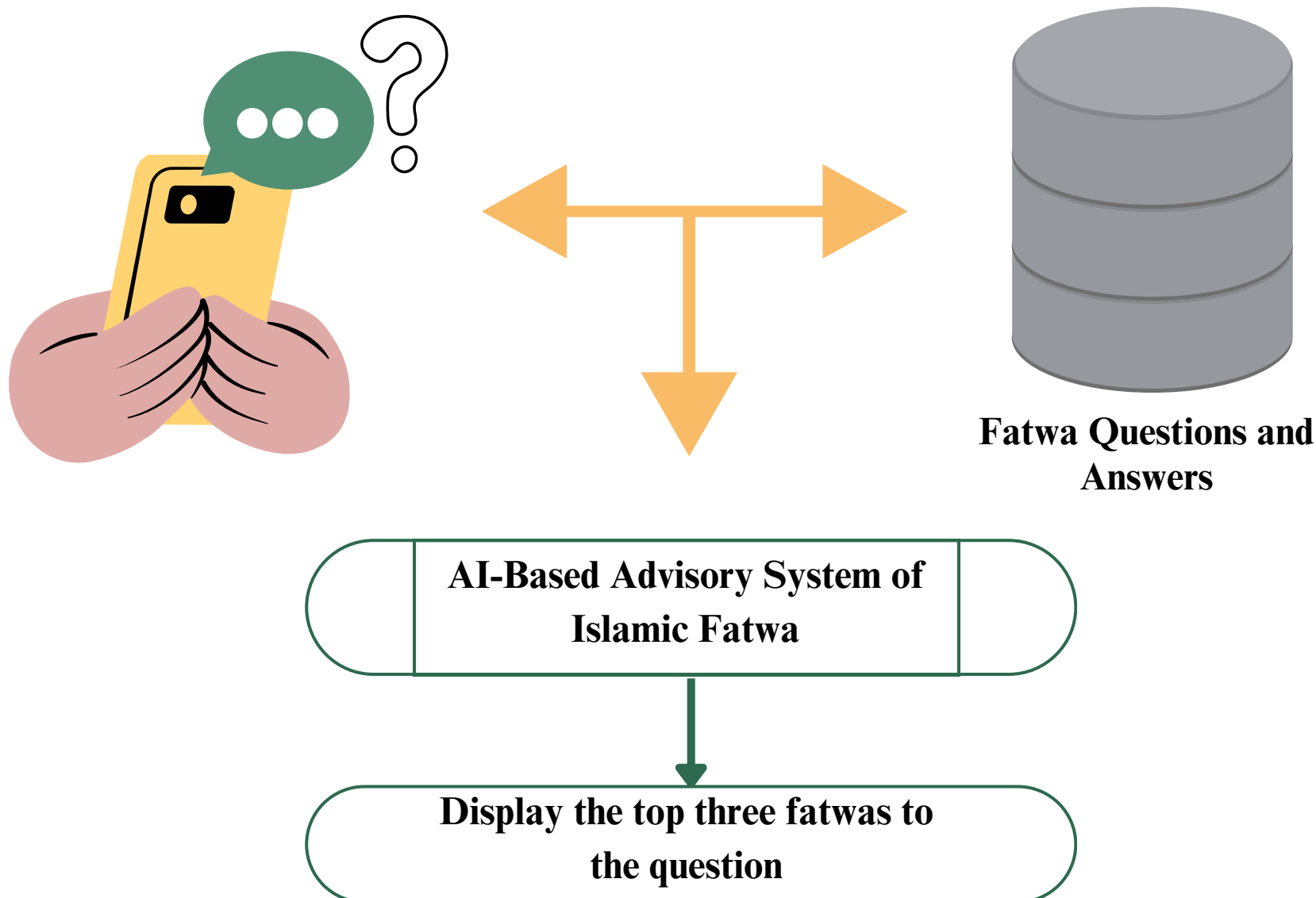
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Objectives

-  Reduce the spread of inaccurate Islamic jurisprudence laws
-  Ensure the reliability of the information provided by collecting the dataset from authorized websites
-  Solve the untrustworthiness that spread due to the growing number of online fatwa queries from unreliable sources

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Overall Structure



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Dataset



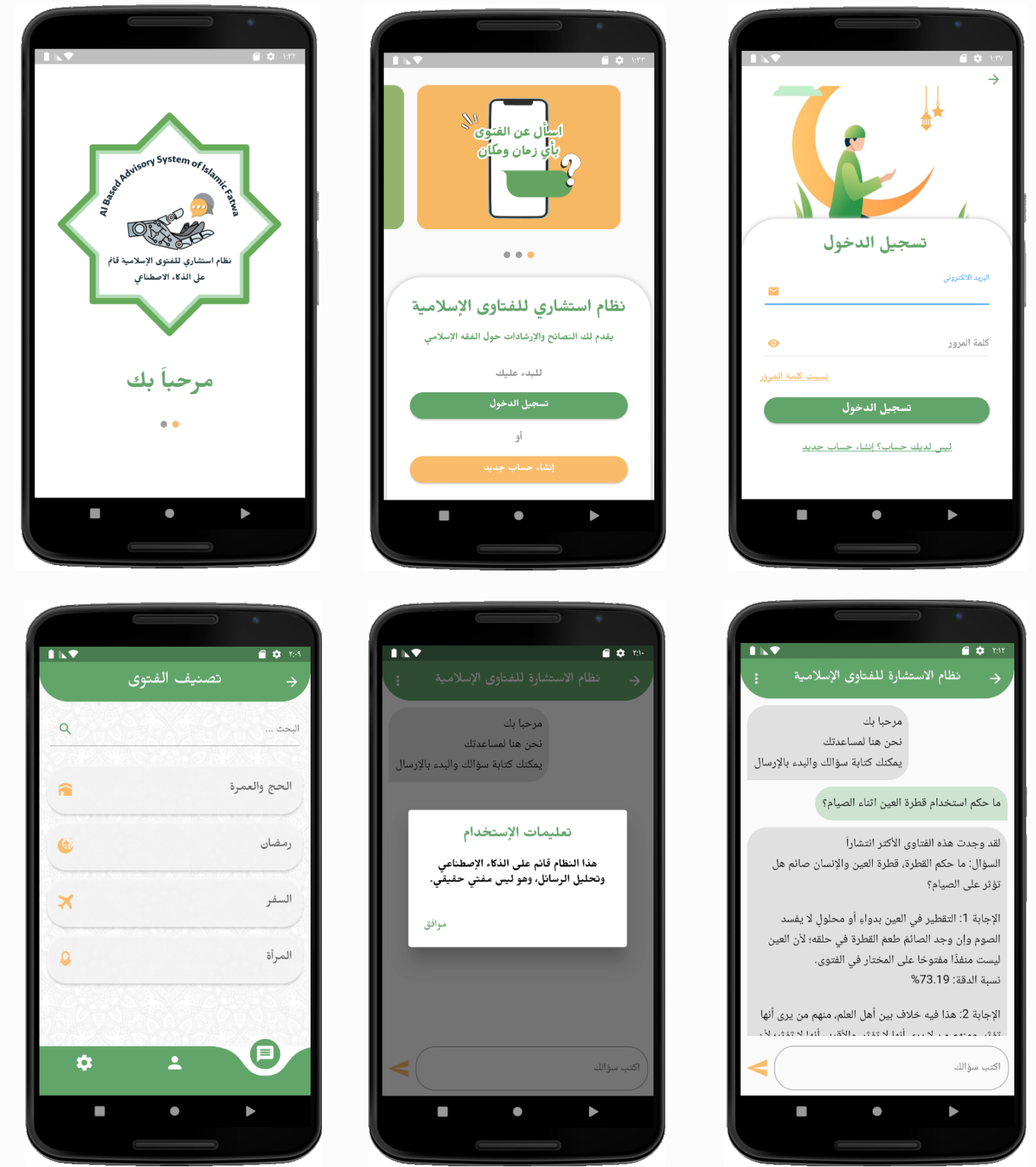
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Tools



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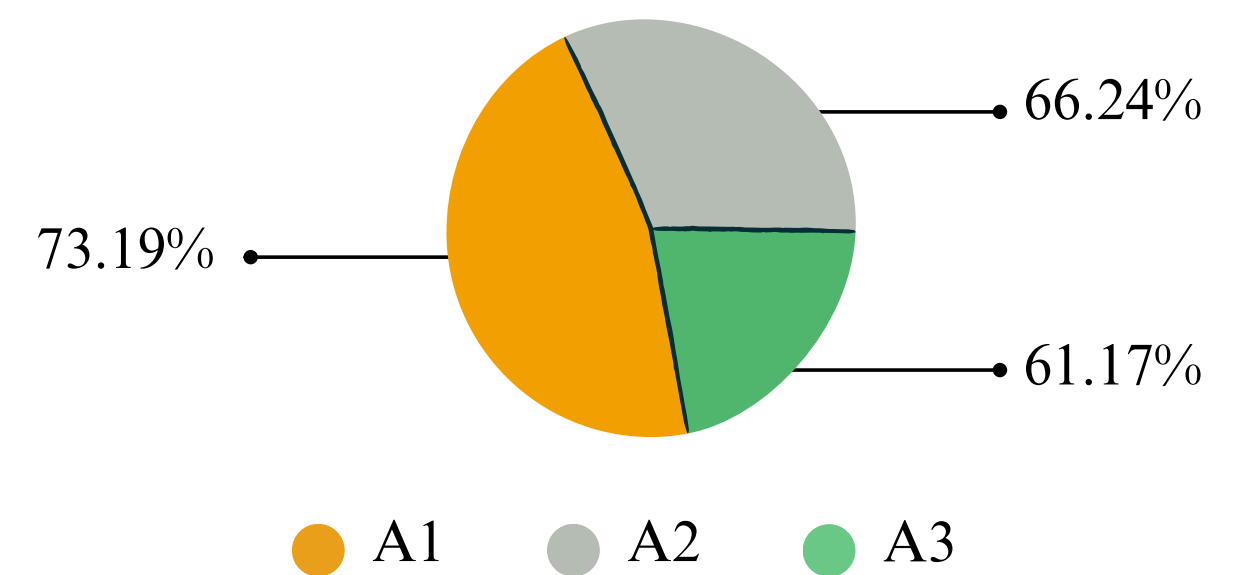
Prototype



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Result

Question: ما حكم استخدام قطرة العين اثناء الصيام ؟



The system will respond with the most 3 relevant answers that are matched from the dataset, along with an accuracy rate. Accuracy rate is a percentage of similarity between the user's question and the question that was collected in our dataset. Note that 'A' is a short form of representing the word 'Answer'.

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Conclusion

We proposed a comprehensive overview of our project, covering existing system problems, proposed solutions, collected data, requirements, architecture strategies, application interfaces, dataset collection, database connection, and Advisory system services. The report is organized into six chapters, contributing to a better understanding of the project's scope, design, implementation, and future work. We believe that our project will meet user needs and make a valuable contribution to the field of Islamic fatwa.

