

Yaqeen: An AI-Powered Islamic Companion Mobile Application for Personalized Islamic Guidance

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Abstract

Yaqeen is a smart and interactive Islamic companion, a cross-platform, innovative mobile software designed and implemented to address the challenges Muslims face in maintaining consistent faith and getting access to authentic Islamic guidance in a well-organized structure. The aim is to implement a unique digital platform that helps users deepen their understanding of Islam and draw closer to their Deen. The application comprises various interactive Islamic functionalities such as Qibla finder, personalized salah reminders, precise prayer times with announcements, and daily authentic hadiths reminders. Yaqeen additionally provides an everyday Qur'an recitation tracker, a library of all Qur'anic surahs with English translation, audio recitation by different reciters, a digital tasbeeh for dhikr, and an Islamic knowledge hub including collections of duas, Islamic stories, and quizzes. Yaqeen's AI-driven Islamic companion, "Noor", is the signature feature - a chatbot with intelligence trained on authentic Islamic sources that includes the Qur'an, Hadith, and academic perspectives. Noor includes personalized guidance along with solutions to religious questions while keeping accuracy and respect for Islamic beliefs as its top priority. This AI platform adapts to the user's emotional state, activity history, and learning progress for delivering personalized solutions, including Qur'anic verses, Hadiths, and duas. Therefore, Yaqeen aspires to be more than just an application -it aims to be a digital companion that helps users to lead a life of faith, contemplation, and closeness to Allah.

Keywords

Yaqeen, Islamic companion, cross-platform mobile application, AI-driven chatbot, Noor, digital Islamic platform.

1. Introduction

Mobile devices have become a major component of daily life in the contemporary, fast-changing digital media environment, therefore transforming how people connect, get information, and accomplish their everyday chores. A religion that places great value on persistent devotion and meditation, Islam might profit considerably from technology that helps Muslims to improve their readiness to remain spiritually connected by means of regular prayers, genuine information, and firm faith. Designed with Flutter and Dart, Yaqeen seeks to be a personal Islamic friend, especially focused on helping Muslims, including reverted Muslims, maintain regular religious practices, develop spirituality, and interactively get knowledge. Developed as a live project in collaboration with the Islamic Information Center, Sultanate of Oman, an organization dedicated to disseminating true Islamic knowledge and increasing awareness of Islamic values, the Yaqeen project aims to This contemporary web tool helps to spread Islamic ideals by means of

mobile technology by the group. The most important elements are qibla direction, Quran recitation with translation, a library of information, accurate prayer times, a compilation of Dua's, genuine hadiths, and customized prayer alerts. Combining these key components helps. Yaqeen seeks to promote its bigger objective of promoting religious participation through technology by combining these critical components and satisfying the rising need for clear-cut Islamic knowledge.

1.1 Research Questions

RQ1: How can an AI-powered mobile application provide accurate, personalized Islamic guidance while maintaining alignment with authentic Islamic sources?

RQ2: What challenges and ethical considerations arise when integrating AI technologies into Islamic guidance systems?

RQ3: How effective is an AI-based Islamic companion app in improving users' understanding of Islamic practices and teachings?

2. Literature Review

According to Priyatna and Nuwairah (2024), dynamic interactions with users, personalized recommendations, and data-driven content enable AI technology to improve the accessibility and effectiveness of dakwah. This perfectly matches Yaqeen's, a smart Islamic companion's, development. Using artificial intelligence would enable the programme to provide customised Islamic content, intelligently answer consumer inquiries, and provide particular support. For users, particularly revert Muslims needing spiritual help and Muslims looking for information, it increases participation and availability. Priyatna and Nuwairah (2024) advise that careful reconciliation of technological developments with moral considerations in Islamic communication is necessary to ensure the material is appropriate in line with Islamic teachings. These results show how important it is in Yaqeen to set up reliable authentication systems and ethical artificial intelligence design in order to retain credibility and provide a superior learning experience online.

Many people see contemporary technology as an essential instrument for access and engagement in moral and religious education. Helena and Sumanti's 2024 research reveals that online classes have greatly improved Islamic education by producing flexible, adaptable systems that increase involvement and information. Ahmad et al. (2024) also argue that employing mobile devices in Islamic knowledge learning encourages inclusivity among people who have physical or any other issues that stops them from pursuing further education. These results are strongly related to Yaqeen, therefore providing a reliable virtual companion to support ongoing religious growth for both converts and regular Muslims.

3. Methods

This research follows a design and development-oriented methodology for proposing and evaluating Yaqeen, an AI-powered Islamic companion mobile application. The chosen approach for the development of Yaqeen software is the Agile methodology of software development. Agile is an adaptable iterative approach that promotes teamwork, regular feedback, and quick responses to changes. The Yaqeen software's nature calls for continuous development of features, such as simple instructions, predictive responses, and a user-friendly design. Agile satisfies these requirements by dividing the creative processes into shorter, easier-to-manage cycles termed sprints. By giving a sprint over conceptualization, development, implementation, and assessment connected with features, the quick delivery of useful components and ongoing quality improvement is made possible (Table 1).

Table 1. SWOT Analysis of Choosing the Agile Approach for the Yaqeen Project

Strengths	Weaknesses
Flexibility and Adaptability: Agile allows for fast adaptation to shifting customer requirements and additional AI features.	High User Engagement: Continuous assistance from consumers is needed, which may prove difficult to accomplish.
Iterative Development: Features are created independently, which allows rapid recognition of errors and more effortless incorporation of AI elements.	Limited Documentation: Agile puts more value on functional software than comprehensive documentation, which could hinder knowledge

	transfer.
User-Centered Method: In order to fulfill the actual requirements and encourage participation, regular interactions with clients are important.	Risk of Scope Creep: If improperly handled, regular modifications to requirements may lead to the project time frame slipping.
Faster Delivery: Functional features are provided in shorter sprints, permitting the app to be effective at the beginning of the development phase.	Team Dependency: Skilled and powerful teamwork is required for the Agile method to be successfully implemented.
Opportunities	Threats
Incorporation of AI Capabilities: Agile enables ongoing development and inclusion of AI- powered and personalized assistance.	Time Limitations: Iterative development can cause problems with planning, especially when it comes to complicated AI components.
Agile allows for continuous refinement of UI/UX and AI capabilities, therefore producing a superb end product.	Resource Management: Continuous sprints need perfect planning to eliminate resource overloading and interruption.
User input will be used to add new functionalities, including interest tests and material personalization.	Limited Access to Real Users: Testing AI customization requires a good amount of user data, which might be restricted initially.

3.1 Stages of Agile Methodology in Development

The Agile approach tackles software development progressively and repetitively (Figure 1). Each phase of it seeks to provide modest, useful system components and enable ongoing development guided by user feedback. These are the phases in general:

1. Analysis of Requirements

The project team gathers and documents needs for purpose, system objectives, and customer expectations at this phase of work. The demands are ranked depending on how much they support the user experience, with special attention on interactive features and AI-driven custom advice.

2. System Design

The system design phase produces database models, interface prototypes, and architectural plans. UML diagrams produced to show the layout and functioning of the system include examples using use case, task, and sequence. This phase guarantees that every system component is in place before development begins.

3. Iterations of Development(Sprints)

Certain application components are designed, implemented, and verified in brief cycles known as sprints throughout this stage. Every single sprint culminates in a functional version of the complete system module, therefore allowing users and stakeholders to immediately offer comments.

4. Validation and Testing

All iterations include continuous testing to find and address problems, confirm performance, and guarantee that the stated criteria are met. User acceptability is also assessed to verify the usefulness of the AI's accurate yet practical suggestions.

5. Implementation and Evaluation

After successful testing, the created components are either released to the actual environment or incorporated into the existing system. Client comments are collected and analyzed to help in the planning of the following phase or sprint. Until the system reaches the necessary level of efficiency, accessibility, and dependability, this procedure is continued.

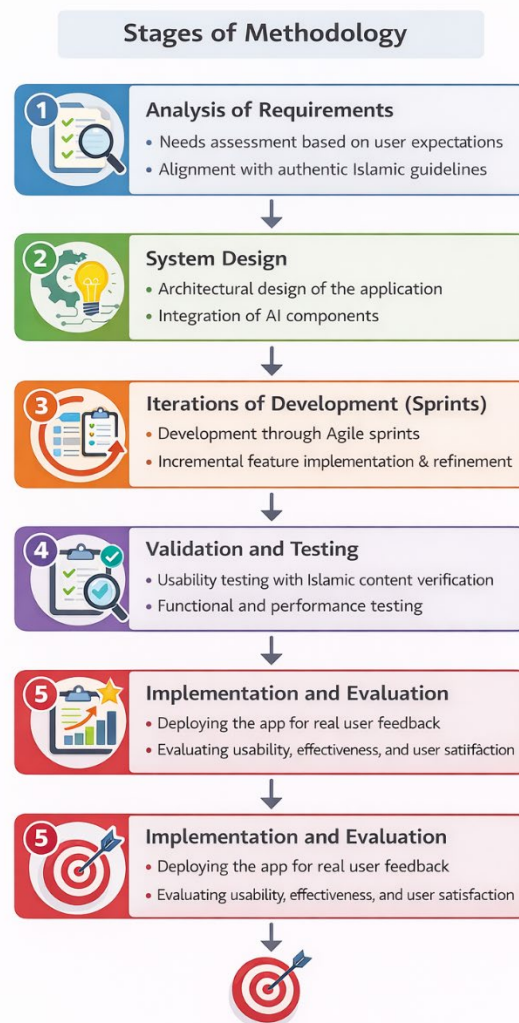


Figure 1. Methodological stages adopted for the design, development, and evaluation of the Yaqeen application

4. Data Collection and Analysis

The main source of information for understanding user requirements, expectations, and real system requirements came from individual participants. Furthermore, Islamic Centre officials were questioned to get ideas related to the accuracy of Islamic content, access issues, and ethical obligations. Identifying major characteristics and limitations unique to the targeted audience greatly depended on these debates. Additionally, surveys were developed and sent out to gather user opinions on the Yaqeen app's requested features, simplicity of usage, and general expectations. Moreover, a visit to the Islamic Centre offered useful first-hand insights on content demands and consumer engagement, therefore validating the approach analysis and design. Secondary data was gathered to strengthen and back up the major outcomes of the study, combined with primary data. To fully understand current Islamic mobile software, system architectural techniques, and suggested software development best practices, this entailed going over reliable internet sources, textbooks, research papers, and academic articles. Moreover, the design and development of the Yaqeen application was informed by the assessment of past research, case studies, and comparable uses that helped to spot current limitations, best practices, and possible areas for enhancement.

4.1 Requirement Specification

Based on the data analysis, the following requirements were identified:
External Interface Requirements:

- A client-friendly graphical user interface (GUI).
- Compatible with various mobile and web frameworks.
- Simple navigation with straightforward content displaying.

Functional requirements:

- Registration and login.
- Accessibility to Islamic education materials.
- Search capabilities and navigating features.
- Admin/content control abilities.

User Characteristics:

- Users might have various levels of technical familiarity.
- The system must be simple to operate for anyone of any age.
- Minimum amount of training necessary.

Performance requirements:

- Fast reaction time.
- Efficient retrieval of data.
- No interruptions, seamless travel.

Security requirements:

- Reliable system for authentication.
- Protect sensitive user information.
- Restricted involvement in administrative functions.

4.2 Justifying Data Collection Method

Both primary and secondary data collection techniques are combined to produce precise and dependable results. Tailored data gathered from stakeholders is given in real-time to ensure the platform matches actual user needs by means of primary data delivery. Offering a theoretical foundation together with industry guidelines, secondary data helped define the basic results. This holistic approach made it more accurate to collect needs and made sure that a learned, user-centered product was produced.

4.3 Feasibility Analysis

1. Technical Feasibility

Yaqeen software creation is technically feasible because of the existence of modern, trustworthy, and comprehensive technologies, including Flutter and Dart for cross-platform mobile app development. Flutter provides advanced user interface elements, a fast development cycle, and the capability to work with a single codebase for both iOS and Android deployment. The transfer of data and managing users are made easier by Firebase's unified backend and authentication solutions, which include Cloud Storage, Cloud Firestore/Realtime Database, and Firebase Authentication. Python and Flask APIs, that are compatible with the Flutter user interface can be used to add simple models for AI features like smarter notifications, reflective observations, and customized suggestions. I possess previous expertise with Firebase, Python, SQL, and the development of Android, and all the previously chosen technologies are free or open source for educational purposes. Due to this, there are a few technical barriers to deployment. As a result, the endeavor has an elevated level of technological feasibility.

2. Economic Feasibility

Most of the basic development tools—Flutter, Dart SDK, Firebase free tier, VS Code, and GitHub—are accessible at no cost, hence the project is still commercially viable. Optional expenses include hosting the AI API or deploying the backend on affordable platforms such as Render, Railway, or PythonAnywhere, several of which provide generous free hosting levels appropriate for academic projects. Though the total financial load remains little, a premium UI asset or domain name could incur modest discretionary expenses. Thus, Yaqeen has great economic viability because the project can be finished with little capital.

3. Functional Feasibility

The main objective of operational feasibility is whether the system will operate effectively for the target audience. Yaqeen offers basic features like Islamic learning modules, dua collections, daily religious reminders, AI-driven accomplishment analysis, and simple monitors so as to guarantee that users can properly interact with the app. Though Firebase offers quick notifications for user activity or scholastic achievements, Flutter's fast UI generation guarantees

smooth browsing and a very attractive design. Because the application's goal is in line with consumers' rising demand for digital Islamic tools, the design is operationally viable, user-friendly, and has the potential to provide dependable service.

4. Social Feasibility

Social acceptability analyzes the degree to which architecture can be embraced by society. Through offering authentic and moral guidance specifically designed for Muslim users, Yaqeen adheres to Islamic principles. The app utilizes the use of AI in a considerate and socially competent manner, guaranteeing that its recommendations and insights adhere to Islamic values. Users have grown comfortable with online tools for religious growth due to the rising number of Islamic mobile apps, including Muslim Pro, Tasleem, and Athan. Yaqeen, therefore, seems accepted by society, culturally appropriate, and is bound to be positively accepted by the intended audience (Figure 2).

4.4 Providing Screenshots of Initial Prototypes



Figure 2. Prototype design of the Yaqeen AI-powered Islamic companion application

5. Limitations

Though the Yaqeen AI-powered Islamic companion mobile application's development and design were successful, this research has some drawbacks. First, the application is reviewed by a small group of users, which may limit the findings' generalizability. More thorough usability and effectiveness insights would come from a bigger, more varied user base. Second, the program uses preselected and curated Islamic content that, while carefully chosen, might not encompass all theological schools or difficult religious questions. Hence, the advice given is meant to be instructive and encouraging rather than prescriptive theological judgments. Furthermore, restricted in scope, the artificial intelligence skills applied in this investigation center mostly on customizing and directed responses instead of sophisticated reasoning or real-time academic validation. Future advancements could include more complex artificial intelligence systems and more extensive content validation techniques.

6. Conclusion

This research introduced the creation, development, and assessment of Yaqeen, an AI-powered Islamic companion mobile app meant to give customized Islamic advice in a moral and user-friendly fashion. The application was built

employing an Agile-based methodology, which enabled iterative tweaking of features and better usability over the course of development. The data show Yaqeen's capacity to assist users in improving their knowledge of Islamic customs and everyday direction by means of customized encounters. The application shows how modern technology can be used morally to support spiritual education by fusing artificial intelligence with genuine Islamic ideals. The results draw attention to the real possibility and favorable user perception of AI-assisted Islamic applications, even if the study has some drawbacks. Future research might center on extending artificial intelligence powers, raising content diversity, and running large-scale evaluations to more improve the system's dependability and efficiency.

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Biography

Nidha Sadath is a final year undergraduate student at Middle East College in Muscat, Oman, Bachelor of Science (Hons) in Computer Science (Software Technology) in affiliation with Coventry University, UK. Her strong interest in mobile application development and artificial intelligence shows her passion for creating innovative digital solutions. She has previously implemented a sales application using Android Studio and Java as part of her diploma project, showcasing her skills in Java, Android Studio, Firebase, and SQL. Currently, she is working on her bachelor's project titled Yaqeen, a smart Islamic companion using Flutter and Dart, and she aims to merge technology with faith-based learning by developing an innovative application for promoting spiritual growth.