



WDT PROJECT QURAA

Dr: Nasser Tamim

Section time: Monday 1:00 - 3:00

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Web sit Quraa



Objective:

- Providing Quran recitations with interpretations & jurisprudential rulings.
- Teaching Tajweed and the meaning of Dhikr.
- Ensuring readability for color-blind users with optimized display options.
- Adding voice control for easier accessibility.

Features:

- Interactive Digital Mushaf A seamless Quran-reading experience that mimics the printed Mushaf.
- Interpretation & Meanings Displaying verse meanings and interpretations alongside the Quranic text for deeper understanding.
- Advanced Search Functionality Quickly find specific Surahs or verses with high accuracy.
- **Recitation Control** Select your preferred reciter with options to play, pause, repeat, and adjust recitation speed.
- **Smooth Navigation** Easily move between pages and Juz sections using intuitive controls.
- Enhanced Reading Modes Multiple display options, including night mode and verse highlighting, for an optimized reading experience.
- Color-Blind Friendly Design Customized background and color settings to enhance text clarity for users with color blindness.



Stakeholders:



. Users:

- Individuals looking for an interactive and accessible Quranreading experience.
- People seeking interpretations and meanings of Quranic verses.
- Learners and students interested in improving their Tajweed and understanding of Dhikr.

Religious Scholars & Educators:

- Provide accurate interpretations and Tajweed lessons to enhance users' understanding.
- Offer verified Islamic rulings and guidance.

Developers & Designers:

- Build an intuitive and accessible platform that ensures a smooth user experience.
- Implement advanced features like color-blind-friendly backgrounds and voice control for accessibility.

Islamic Organizations & Institutes:

- Support the platform with verified religious content and scholarly input.
- Promote Quranic learning and community engagement.

• Investors & Sponsors:

- o Fund the development and maintenance of the platform.
- Support accessibility improvements and expansion of educational resources.

· Advertisers & Partners:

- Provide relevant Islamic content, books, and services.
- Promote Islamic initiatives and educational programs.



External-Interface Requirements



1) User Interface:

The platform is designed to be intuitive and user-friendly, ensuring easy navigation and accessibility for all users, including those with color blindness.

2) Hardware Interface:

The software is compatible with the following devices:

Desktop and Laptop:

- 1. Windows OS
 - Found on: PCs and laptops running Windows.
- 2. macOS (by Apple)
 - Found on: Apple computers like MacBook, iMac.
- 3. Linux (Various Distributions)
 - o Examples: Ubuntu, Fedora, Debian, Arch Linux, Mint.
 - o Found on: PCs.
- 4. Chrome OS (by Google)
 - Found on: Chromebooks

Mobile:

- 1. Android (by Google)
 - o Found on: Smartphones, tablets.
- 2. iOS/iPadOS (by Apple)
 - Found on: iPhones, iPads.
- 3. HarmonyOS (by Huawei)
 - Found on: Huawei devices.

3) Software Interface:

For the platform to function optimally, the following software requirements must be met:

Software	Reason	Examples	
Audio Streaming & Playback	The platform provides Quran recitations, requiring reliable audio playback.	o Built-in media player support on Android/iOS. o Web-based audio player for browsers.	
Internet Connectivity	Ensures access to Quranic content,	o Wi-Fi or cellular data is necessary for	
	interpretations, and live audio recitations.	streaming and updates.	
Text-to-Speech (TTS) Services	Supports voice control and accessibility	o Google Text-to-Speech (Android) o	
	for visually impaired users.	Apple VoiceOver (iOS)	



Functional Requirements:



• Description:

The **Quran Website** is an interactive platform designed to provide users with access to the Holy Quran, including recitations, translations, and tafsir (exegesis). The system offers a user-friendly experience, allowing easy navigation through chapters and verses while supporting multiple languages and reciters. The goal is to enhance the spiritual and educational experience of users by providing a comprehensive digital Quranic resource.

Inputs:

- Selected Surah and Ayah.
- Preferred reciter.
- Chosen translation language.
- Tafsir selection (if needed).

Behaviors:

- Displays the chosen Surah and Ayah along with the corresponding translation and tafsir.
- Streams the Quranic recitation in the selected voice.

Outputs:

Displays Quranic verses with translations and tafsir.

- Provides audio recitations from multiple Qaris.
- Allows users to bookmark favorite verses for later reference.



Examples on the Functionalities:



1) Client's Side:

- Search & Navigation: Allows users to quickly find Surahs and Ayahs using filters such as:
 - Surah name or number.
 - 。 Juz' (part) number.
 - Specific keywords within verses.
 - Reciter name or translation language.
- Audio Recitations: Users can listen to different recitations from various Qaris with options for playback speed adjustment.
- Bookmarking & Favorites: Users can save specific verses for future reference or create a playlist of preferred recitations.
- Tafsir & Translation: Provides detailed explanations and multiple translations for a deeper understanding of the verses.
- Dark Mode & Reading Settings: Users can customize font size, background color, and display preferences for comfortable reading.

2) Admin Side (Website Management):

- Uploading New Recitations & Translations: Admins can add or update recitations and translations for better accessibility.
- Managing User Bookmarks & Preferences: Allows administrators to store user preferences and improve personalization.
- Content Updates:
 - Adding new Tafsir books or translations.
 - Updating the website layout for better navigation.
 - Improving search functionality and performance.
- Usage Analytics & Feedback Collection: Admins can track user engagement and gather feedback for continuous improvement.





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Non-Functional Requirements



• Performance Requirements:

- 1. The website should support up to **100,000 simultaneous users** without performance issues.
- 2. Page load time should not exceed **2 seconds** under normal conditions.
- 3. The website must update real-time data (e.g., new recitations, tafsir updates) within **30 seconds** of any changes.

• Scalability Requirements:

- 1. The platform should be **easily scalable** to accommodate more users and additional Quranic resources.
- 2. It must handle increasing traffic and content without affecting **performance or accessibility**.

• Reliability and Availability:

- 1. The website should have **failover mechanisms** to ensure continued access during server issues.
- 2. Ensure data accuracy, particularly for Quranic text, translations, and tafsir.

Security Requirements:

- 1. User data (such as saved bookmarks and preferences) must be **encrypted** both in transit (using HTTPS) and at rest.
- 2. Implement **secure authentication methods**, such as multi-factor authentication (MFA), for admin access.
- 3. Protect sensitive content from unauthorized access or modifications.
- 4. Comply with **global data privacy regulations** to safeguard user information.

• Usability and Accessibility Requirements:

- 1. The interface should be **user-friendly**, ensuring seamless navigation.
- 2. The website must be **compatible** across multiple devices (smartphones, tablets, and desktops).
- 3. Provide multi-language support for translations and user interface.
- 4. Offer features such as screen reader support, adjustable font sizes, and dark mode for better accessibility.

• Maintainability Requirements:

- 1. The codebase should be **modular and well-documented** to allow easy updates and bug fixes.
- 2. Implement automated testing to ensure that updates do not introduce errors.
- 3. Provide **system monitoring tools** to track performance and resolve issues efficiently.

• Integration Requirements:

1. The website should support seamless integration with **third-party services**, such as Islamic calendar APIs, prayer time APIs, and sharing options for social media.





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