**Faith Fun Time: Functional & Non-Functional Requirements and Software Testing Plan**

**Functional Requirements**

- User Registration & Login - Users can create an account using email or Google login. Users can log in securely with their credentials.

- Dashboard - Displays user profile, weekly tracker, categories (Bible, Know About God, Bible Q&A, My Stuff). Shows the 'Verse of the Day'.

- Interactive Bible Stories - Provides selected Bible stories with narration and visuals. Allows offline access to downloaded stories.

- Gamified Quizzes & Games - Multiple-choice quizzes to reinforce Bible knowledge. Tracks progress and gives rewards or points for correct answers.

- Daily Quotes - Delivers inspirational Bible verses daily. Updates automatically with internet connection.

- Profile Management - Users can view/edit their profile, save notes/reflections, and log out securely.

**Non-Functional Requirements**

- Usability - Simple, colorful, and child-friendly UI that is also accessible to teens and adults.

- Performance - The app should load any screen within 3 seconds. Should support both offline and online access for key features.

- Security - Encrypt user credentials. Session logout after inactivity.

- Reliability - App should be available 99% of the time. Handle up to 500–1000 concurrent users in its first version.

- Portability - Cross-platform (Android & iOS via Flutter).

- Maintainability - Codebase should allow updates for new Bible stories and quizzes.

**Software Testing Plan**

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| Test Type | What to Test | Expected Result |
| Unit Testing | Individual modules (Login, Quiz, Daily Quotes). | Each feature works correctly in isolation. |
| Integration Testing | Interaction between frontend (Flutter) and backend (Firebase). | Smooth synchronization of user data, quotes, and stories. |
| Functional Testing | User flows: Sign Up → Dashboard → Story → Quiz → Save Notes. | No errors, correct navigation. |
| Usability Testing | Interface clarity for children and adults. | Users can navigate without guidance. |
| Performance Testing | App loading speed, quiz response time, offline/online switching. | Pages load within 3 seconds; no crash during quiz. |
| Security Testing | Login credentials, Google Sign-In, data storage. | Data is encrypted and secure. |
| Compatibility Testing | Different devices (Android, iOS, tablets). | App runs consistently across platforms. |
| Acceptance Testing | Real users test the app vs. requirements. | Meets all functional and non-functional requirements. |