Test Plan Document

Fathers of the Faith Web Application

1. Overview

Project Name: Fathers of the Faith
Version: 1.0
Prepared By: Jake

The purpose of this test plan is to validate the functionality, security, and usability of the **Fathers of the Faith** web application, ensuring that it meets the requirements and delivers a seamless user experience.

---

2. Objectives

- Verify core functionalities such as sorting, filtering, searching, and clearing filters.
- Ensure all features are accessible and work as intended.
- Identify and report any defects for resolution before deployment.
- Conduct security testing to identify vulnerabilities.
- Perform usability testing through a user demo followed by feedback collection via survey.
- Validate the application's performance under load.

---

3. Test Environment

Test Setup:

- **URL**: [Fathers of the Faith Web App](#)
- **Supported Browsers**: Chrome, Brave, Firefox, Safari, Edge
- **Devices**: Desktop and Mobile

Prerequisites:

- Access to a browser and the web application.
- Search and filter functionalities are operational.

---

4. Test Scenarios and Cases

The test scenarios and detailed test steps are documented in the **Fathers of the Faith Test Case Document**. Below is a summary of the test cases included in the document:

Test Case ID	Description	Status
CFA_001	Verify website access	Passed
CFA_002	Verify sort functionality	Passed
CFA_003	Filter by century	Passed
CFA_004	Filter by scripture	Passed
CFA_005	Filter by author	Passed
CFA_006	Search documents	Passed
CFA_007	Clear search and filter selections	Passed
CFA_008	Theme Change Functionality	Passed

For detailed steps, prerequisites, and expected outcomes, refer to the **Test Case Document**.

---

5. Test Details

The detailed test steps and procedures for all test cases are specified in the **Fathers of the Faith Test Case Document**. These details include:

- Step-by-step instructions for execution.
- Test data used.
- Expected and actual results.
- Status updates (e.g., Pass/Fail/Not Executed).

For the full breakdown, refer to the **Test Case Document**.

---

6. Schedule

Phase	Start Date	End Date	Resources
Test Case Execution	Feb. 19, 2025	Feb. 26, 2025	Jake
Penetration and Stress Testing	Mar. 1, 2025	Mar. 22, 2025	Nave Security
Bug Fix Verification	Mar. 22, 2025	Mar. 31, 2025	Jake
User Demo and Survey Collection	Mar. 31, 2025	Mar. 31, 2025	Jake

---

7. Risks and Assumptions

Risks:

- **Risk**: The web application may experience performance degradation or fail to respond under high concurrent user load.
  Mitigation: Conduct comprehensive load and stress testing during the testing phase to identify and resolve potential bottlenecks before deployment.
- **Risk**: Users may face difficulty in understanding the search and filter functionality.
  Mitigation: Provide a user demo and gather feedback through surveys to improve the interface if necessary.

Assumptions:

- Search and filter features are functional in the current build.
- User demo participants are representative of the application's target audience.

---

8. Security Testing

In addition to the functional tests, the following security assessments are planned to ensure the web application's resilience and compliance with security best practices:

8.1 OWASP ZAP Scans

- **Passive Scan**: Perform passive scanning to identify common vulnerabilities such as missing security headers or improper cookie configurations.
- **Active Scan**: Conduct active scans to probe for vulnerabilities like SQL injection, cross-site scripting (XSS), and insecure direct object references (IDOR).

8.2 OpenVAS Scans

- Use OpenVAS to identify vulnerabilities in the application's underlying infrastructure, such as unpatched software, insecure ports, and outdated libraries.

8.3 External Penetration and Stress Testing

- **Vendor**: Nave Security
- **Scope**: Perform external penetration testing and code scanning to identify any exploitable vulnerabilities and conduct stress testing to evaluate the application's performance under high traffic loads.

These security tests will be conducted in parallel with functional testing to ensure comprehensive coverage. Findings will be documented and addressed.

---

9. User Demo and Survey

9.1 User Demo

Users will be provided with a demo of the **Fathers of the Faith** web application. The demo will cover the following functionality:

- Navigating the application interface.

- Using the search, filter, and sort features.
- Demonstrating document viewing capabilities.

9.2 User Survey

After the demo, users will be asked to complete a survey to provide feedback on their experience. The survey questions will focus on usability, functionality, and performance, with specific attention to the search and filter features.

Survey Questions:

1. How easy was it to navigate the Fathers of the Faith web application?
   - Very easy
   - Easy
   - Neutral
   - Difficult
   - Very difficult
2. Were you able to find the documents you were looking for using the search feature?
   - Yes
   - No
   - Somewhat
3. How would you rate the sorting functionality (by author, document name, or century)?
   - Excellent
   - Good
   - Fair
   - Poor
   - Did not use
4. How easy was it to filter documents based on scripture references and authors?
   - Very easy
   - Easy
   - Neutral
   - Difficult
   - Very difficult
5. Did you experience any issues with the application not responding or taking too long to load?
   - Yes
   - No
   - Occasionally
6. How visually appealing did you find the web application's design?
   - Very appealing
   - Appealing
   - Neutral
   - Unappealing
   - Very unappealing
7. How intuitive was the overall user interface of the web application?

- ○ Very intuitive
- ○ Intuitive
- ○ Neutral
- ○ Confusing
- ○ Very confusing

8. How likely are you to recommend this web application to others who are interested in Church Fathers' documents?
    - ○ Very likely
    - ○ Likely
    - ○ Neutral
    - ○ Unlikely
    - ○ Very unlikely

9. What additional features would you suggest adding to improve the user experience?

10. Were there any technical issues or bugs you encountered while using the web application?
    - ○ Yes
    - ○ No
    - ○ If yes, please describe:

11. How would you rate the overall performance of the application (speed and responsiveness)?
    - ○ Excellent
    - ○ Good
    - ○ Fair
    - ○ Poor