Mahfil manual testing project

TEST PLAN

Mahfil

Abstract

This document provides an overview of the project and describes the test plan also.

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VERSION HISTORY

Version	Write by	Revision Date	Approved By	Approval Date	Outline

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INTRODUCTION

This test plan is a rule book for testing the project Mahfil.

The test plan describes the strategy, objective, schedule, estimation, delivery, performance, and resource requirements for testing the project Mahfil. It describes the scope and approach also. The plan identifies the item or feature to be tested or not to be tested. The plan identifies the risk of the product and also helps to mitigate the risk.

1   ANALYZE THE PRODUCT

The product under test is the Mahfil mobile app. We research this application from clients and end users to know their needs and expectations.

- Who will use the app?

  The app is a mobile application and people or users use it to stream unique Islamic content including waz, nasheed, tilawat, Islamic shorts, short films, halal documentaries, funny videos, and Islamic lectures

- What is it used for?

  This application is used for streaming unique Islamic content, including waz, nasheed, tilawat, Islamic shorts, short films, halal documentaries, funny videos, and Islamic lectures

- How will it work?

  In this application User will register or login in to this app then the user streaming unique Islamic content, including waz, nasheed, tilawat, Islamic shorts, short films, halal documentaries, funny videos, and Islamic lectures. Users can engage with the content by liking, commenting, replying, downloading videos, adding to the wishlist, and updating their profile.

2   TEST STRATEGY

2.1   Scope of testing

2.1.1   Feature to be tested

Features name	Application Roles	Description
Home	User	**User:** The user can able to see the homepage without any hesitation
Sign up	User	**User:** The user can able to register in Mahfil
Login	User	**User:** Users can log in to their account to get services from Mahfil
Content categories	User	**User:** The user can see the all-content categories.
Video Streaming	User	**User**: The user can easily stream all the videos.
Download	User	**User**: The user can download all the videos successfully.
Search and Filter	User	**User:** The user can find specific content.
User Interaction	User	**User:** Users can like, comment, and share the videos.
Unique Video Content	Admin	**Admin:** Admin can Verify that the content available on the app is unique and aligns with Islamic principles and also check for duplicate content.

2.1.2 Feature not to be tested

- Hardware interfaces
- Software interfaces
- Database interfaces
- API interfaces
- Security

2.2 Test Type

- Integration testing
- System testing
- Usability testing
- Acceptance testing

2.3 Risk and Issues

Risk	Prob	Impact	Mitigation
The project schedule is highly compromised. It is hard to complete the project on time.	High	High	Brief this risk to the QA team and set the priority for each activity.
Not enough resources	Medium	High	Trying to expand the resources or holidays has been estimated and built into the schedule.

2.4 TEST LOGESTISC

2.4.1 Who will test?

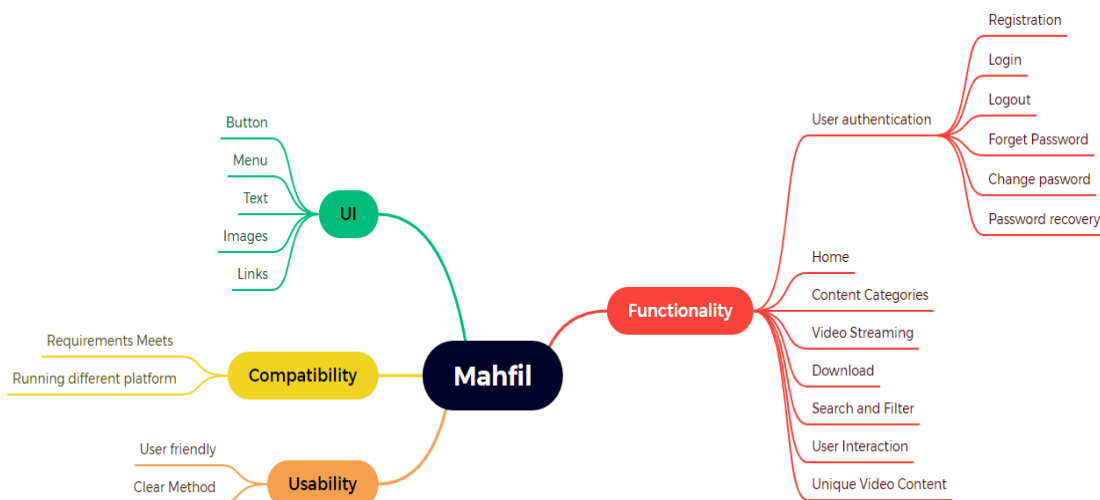QA team or tester will test the project.

2.4.2 When will the test occur?

- Product is available for testing.
- System resources are available.
- Environment setup done.
- Skilled Human resource is available for testing.

3. TEST OBJECTIVE

Here verifies the functionality of the app Mahfil. To ensure bug-free software the testing process should focus on

- Functional testing: During functional testing, the team will use preloaded data which is available on the system at the time of execution.
- UI testing.
- Usability testing.
- Compatibility testing.

[Mahfil mind maps]

4. TEST CRITERIA

4.1 Suspension criteria

When a test case is run by the tester and the run rate is 100 % but 20 % of test cases fail then suspend testing until the DEV fixes it.

4.2 Exit criteria

- When 100 % of test cases are executed and the pass rate is a minimum of 85 to 90% then it should allow exiting.
- If 100% of test cases are not executed then a clear reason is given mandatory.
- No open critical and high-severity defects.
- All remaining defects are either canceled or documented as a change request for a future release.
- All defects logged in **HP ALM.**
- Test closure memo completed and signed off.

5. RESOURCE PLANNING

5.1 System resource

Resources	Description
Test Tool	Develop a test tool that can auto-generate the test result and automated test execution like JIRA
JIRA or Excel	Need **JIRA** or **Excel** for bug tracing and report the bug to the DEV.
Apache JMeter	Need Apache JMeter for performance testing.
Network	Set up a LAN and 1 internet line.
Computer	At least 2 to 3 computers run with Windows 10, RAM 4GB, 128GB SSD, CPU 3.4GHZ.

Mobile Device	At least one Android mobile.

5.2 Human Resources

Roles	Name & Contact	Task
Project Manager	N/A	Manage the whole project.
Business Analyst	N/A	Describe the user stories to the tester.
Test Lead	N/A	Identify, Verify, and access the test approach. Execute the test case, log results, and report the defects. Provide guidelines on how to manage bugs. Give the **OK** to start the next level of testing.
Developer In Test	N/A	Implement the test cases and test suite.
Test Administrator	N/A	It helps to set the environment and supports the tester to use the test environment easily.
SQA Members	N/A	Check to confirm the testing process is meeting the requirement.

6. TEST ENVIRONMENT

A Windows environment with Internet Explorer 8,9,10, windows 7,10, and with Firefox 27.0. Besides Chrome 32.0.

- Mobile app platform: **Android.**
- Server.
- Internet setup.
- Lan WIFI setup.
- Private network setup.

7. SCHEDULE & ESTIMATION

7.1 Estimation

Task (WBS)	Member	Estimate Effort
Create Test Specification	Test Designer/Lead	10 man-hours
Test Execute	Tester	07 man-hours
Test Report	Tester	02 man-hours
Re-Test	Tester	01 man-hours
Final Report & Delivery		01 man-hours
	Total	**21** man-hours

7.2 Schedule

					March-2024							
					W10							
al: $0.00					4	5	6	7	8	9	10	
Start	Finish	Duration	Done	% Complete	M	T	W	T	F	S	S	
Thu 07-Mar-24	Fri 08-Mar-24	2	✓	100%						Create Test Specific		
Thu 07-Mar-24	Fri 08-Mar-24	2	✓	100%						Test Execute		
Fri 08-Mar-24	Fri 08-Mar-24	1	✓	100%						Test Report		
Fri 08-Mar-24	Fri 08-Mar-24	1	✓	100%						Re-Test		
Sat 09-Mar-24	Sat 09-Mar-24	1	✓	100%							Final Rep	

8. TEST DELIVERABLES

8.1 Before Testing

- Test plan document.
- Test case document.

8.2 During Testing

- Test Script.
- Simulations.
- Test Data.
- Test matrix.
- Error and excitation.

8.3 After Testing

- Test reports.
- Bug report.
- Installation procedure.
- Release.

11 Performance Testing

This performance testing was conducted using Apache JMeter to evaluate the system's capability to determine how many concurrent requests were handled and then measure its performance under different loads.

12 USABILITY

Check the application meets the user requirements and the application is user-friendly.