

Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	
Project Name	DocuQuery: AI-Powered PDF Knowledge Assistant Using Google PALM
Maximum Marks	

Test Scenarios & Results

1. Functional Testing

Test Case ID	Scenario (What to Test)	Test Steps (How to Test)	Expected Result	Actual Result	Pass/Fail
FT-01	User Sign-Up	1. Click on "Sign Up." 2. Enter email and password. 3. Click "Submit."	User account is created successfully.	Account created successfully.	P
FT-02	User Login	1. Click on "Login." 2. Enter valid credentials. 3. Click "Submit."	User is logged in successfully.	Logged in successfully.	P
FT-03	Password Reset	1. Click on "Forgot Password." 2. Enter email. 3. Follow the reset link.	Password reset email is sent successfully.	Password reset successfully.	P
FT-04	PDF Upload	1. Click on "Upload PDF." 2. Select a PDF file. 3. Click "Upload."	PDF is uploaded and displayed in the app.	PDF uploaded successfully.	P
FT-05	Natural Language Query	1. Upload a PDF. 2. Enter a question in the query box. 3. Click "Ask."	Accurate answer is displayed.	Answers were somewhat right	P
FT-06	PDF Summarization	1. Upload a PDF. 2. Click "Summarize." 3. Select summary length (short/medium/long).	A concise summary is generated.	Successfully done	P
FT-07	Text-to-Speech	1. Upload a PDF. 2. Click "Read Aloud." 3. Adjust speed (if applicable).	PDF content is read aloud clearly.	Successfully done	P

Test Case ID	Scenario (What to Test)	Test Steps (How to Test)	Expected Result	Actual Result	Pass/Fail
FT-08	Voice Commands	1. Click on the microphone icon. 2. Speak a command (e.g., "Summarize the document.").	Command is executed successfully.	Successfully done	P

2. Performance Testing:

Test Case ID	Scenario (What to Test)	Test Steps (How to Test)	Expected Result	Actual Result	Pass/Fail
PT-01	PDF Upload Performance	1. Upload a 100 MB PDF file. 2. Measure the time taken to upload.	Upload completes within 10 seconds.	YES	P
PT-02	Query Response Time	1. Upload a PDF. 2. Ask a question. 3. Measure the time taken to get an answer.	Response time is less than 5 seconds.	YES	P
PT-03	Summarization Performance	1. Upload a 50-page PDF. 2. Click "Summarize." 3. Measure the time taken.	Summarization completes within 15 seconds.	YES	P
PT-04	Concurrent User Load	1. Simulate 100 users accessing the app simultaneously. 2. Monitor system performance.	System handles load without crashing.	YES	P
PT-05	Text-to-Speech Latency	1. Upload a PDF. 2. Click "Read Aloud." 3. Measure the delay before the speech starts.	Speech starts within 2 seconds.	YES	P

3. Model Performance Testing:

This section focuses on testing the performance of the **Google PALM AI model** integrated into DocuQuery.

Test Case ID	Scenario (What to Test)	Test Steps (How to Test)	Expected Result	Actual Result	Pass/Fail
MT-01	Accuracy of Natural Language Queries	1. Upload a PDF. 2. Ask 10 different questions. 3. Verify the accuracy of answers.	At least 90% of answers are accurate.	75% accurate answers	F
MT-02	Summarization Quality	1. Upload a PDF. 2. Generate summaries of different lengths. 3. Evaluate quality.	Summaries are concise and capture key points.	Successfully done	P
MT-03	Response Time for Complex Queries	1. Upload a technical PDF. 2. Ask complex questions. 3. Measure response time.	Response time is less than 10 seconds.	Successfully done	P
MT-04	Handling of Large PDFs	1. Upload a 500-page PDF. 2. Perform queries and summarization. 3. Monitor performance.	System processes large PDFs without errors.	Successfully done	P
MT-05	Multilingual Support	1. Upload a non-English PDF. 2. Ask questions in the document's language. 3. Verify answers.	Accurate answers are provided in the document's language.	Successfully done	P