

Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2026TMIDS65625
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
Maximum Marks	4 marks

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation (e.g., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	System accepted alphanumeric IDs; rejected special characters with a warning.	pass
FT-02	Number Input Validation (e.g., word count, size, rooms)	Enter numbers within and outside the valid range	Accepts valid values, shows error for out-of-range	Input '25' was accepted; input '500' triggered an "out of range" error message.	pass
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input	Model correctly identified "Proliferative DR" stage from the uploaded fundus image.	pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	The average diagnosis generation time was 1.8 seconds.	pass
PT-01	Response Time Test	Use a timer to check content generation time	Should be under 3 seconds	With 5 concurrent requests, the response time	pass

PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down	With 5 concurrent requests, the response time remained stable at 2.1 seconds.	pass
PT-03	File Upload Load Test (e.g., PDFs)	Upload multiple PDFs and check processing	Should work smoothly without crashing	Successfully processed a batch of 10 high-resolution fundus images without system failure.	pass