> Functional Test Cases

Test ID	Test Case	Input	Expected Result	Actual Result	Status
TID 1	Verify the system	Sample	System accepts	System accepted	Pass
	can input patient	patient data,	and stores the	and stored the	
	data, medical	historical	data without	data without	
	history, and real-	records, and	errors.	errors.	
	time vitals.	vitals.			
TID 2	Verify the	Various	System provides	System provided	Pass
	system's ability to	combinations	appropriate drug	appropriate drug	
	recommend drugs	of patient	recommendations	recommendations	
	based on input	data and	matching	that matched	
	data.	medical	established	established	
		conditions.	medical	medical	
			guidelines.	guidelines.	
				System	
				recommended	
				drugs tailored to	
				individual patient	
				factors, avoiding	
				contraindications.	
TID 3	Validate	Patient data	System	System	Pass
	personalized	with specific	recommends	recommended	
	treatment	characteristics	drugs tailored to	drugs tailored to	
	recommendations	(e.g., allergies,	individual patient	individual patient	
		existing	factors, avoiding	factors, avoiding	
		conditions).	contraindications.	contraindications.	

> Performance Test Cases

Test ID	Test Case	Input	Expected Result	Actual Result	Status
TID 4	Measure	Simulated	System maintains	System	Pass
	system	emergency	prompt response	maintained	
	response	scenarios	times, delivering	prompt response	
	time under	with varying	recommendations	times under both	
	normal and	data input	within acceptable	normal and peak	
	peak loads.	rates.	limits.	loads, delivering	
				recommendations	
				within acceptable	
				limits.	

> Security Test Cases

Test ID	Test Case	Input	Expected	Actual Result	Status
			Result		
TID 5	Verify data	Patient data	Data remains	Data remained	Pass
	encryption	and vitals.	encrypted and	encrypted and	
	during		secure, with	secure during	
	storage and		no breaches or	storage and	
	transmission.		unauthorized	transmission,	
			access.	with no	
				breaches or	
				unauthorized	
				access.	
TID 6	Test system's	Various user	System	System	Pass
	compliance	access	enforces	enforced access	
	with data	scenarios.	access controls	controls and	

privacy	and auditing,	auditing,	
regulations	ensuring	ensuring	
(e.g., HIPAA).	compliance	compliance with	
	with privacy	HIPAA and	
	standards.	other privacy	
		standards.	

> Usability Test Cases

Test Case	Input	Expected Result	Actual Result	Status
Assess the	interactions	Users can	Users were able	Pass
ease of use	with the	navigate the	to navigate the	
for healthcare	system	system, input	system, input	
professionals.	interface.	data, and retrieve	data, and retrieve	
		recommendations	recommendations	
		with minimal	with minimal	
		training.	training.	
	Assess the ease of use for healthcare	Assess the interactions ease of use with the for healthcare system	Assess the interactions Users can ease of use with the navigate the for healthcare system system, input professionals. interface. data, and retrieve recommendations with minimal	Assess the interactions Users can Users were able ease of use with the navigate the for healthcare system system, input professionals. interface. data, and retrieve recommendations with minimal with minimal