EVALUASI KINERJA APLIKASI PEMESANAN RESTORAN

KECEPATAN RESPON APLIKASI

Fitur	Target (ms)	Hasil (ms)	Status	Catatan	
Launch App	3000	2500	PASS	Loading awal aplikasi	
Login	2000	1800	PASS	Proses autentikasi	
Search Restaurant	1500	1200	PASS	Pencarian restoran	
Load Menu	2000	2200	FAIL	Perlu optimasi gambar menu	
Add to Cart	500	400	PASS	Responsif	
Checkout Process	3000	2800	PASS	Proses pembayaran	
Payment Gateway	5000	4500	PASS	Integrasi payment	
Order Tracking	1000	900	PASS	Real-time tracking	
Rata-rata		2037.5			

STABILITAS MULTI-PLATFORM

Platform	Crash Rate (%)	Error Rate (%)	Compatibility Score (%)	Status	
Android 10+	0.2	1.5	95	GOOD	
iOS 14+	0.1	1	97	EXCELLENT	
Web Chrome	0	0.8	98	EXCELLENT	
Web Safari	0.1	1.2	96	GOOD	
Web Firefox	0.2	1.8	94	GOOD	
Overall	0.12	1.26	96	GOOD	

KONSUMSI SUMBER DAYA - MOBILE (ANDROID)					
Metric	Nilai	Unit	Benchmark	Status	
RAM Usage	85	MB	< 100MB	GOOD	
CPU Usage	12	%	< 15%	GOOD	
Battery Drain	8	%/hour	< 10%/hour	GOOD	
Storage	45	MB	< 50MB	GOOD	
Network Data	2.5	MB/session	< 3MB	GOOD	
KONSUMSI SUMBER DAYA - WEB BROWSER					
Metric	Chrome	Safari	Firefox	Unit	Status
Memory Usage	95	88	102	MB	GOOD
CPU Usage	8	10	12	%	GOOD
Load Time	3.2	3.5	3.8	seconds	NEEDS OPTIMIZATION
LOAD TESTING RESULTS					
Concurrent Users	Avg Response Time (ms)	Error Rate (%)	Throughput (req/s)	Status	
10	1200	0	25	EXCELLENT	
50	1500	0.2	118	GOOD	
100	2100	1.1	195	GOOD	
200	3200	2.8	310	ACCEPTABLE	
500	5800	8.5	520	POOR	
1000	12000	25	680	FAIL	
NETWORK PERFORMANCE					
Connection Type	App Launch (s)	Search Function (s)	Image Loading (s)	Overall Rating	
WiFi (50Mbps)	2.1	0.8	1.2	EXCELLENT	
4G (20Mbps)	2.8	1.2	2.1	GOOD	

3G (1Mbps)	5.2	3.1	4.8	POOR	
2G (256Kbps)	12.1	8.5	15.2	UNACCEPTABLE	

PERFORMANCE SCORE SUMMARY

Category	Score	Max Score	Grade	Weight (%)	Weighted Score
Response Time	85	100	B	25	21.25
Stability	96	100	A	20	19.2
Resource Usage	92	100	A-	20	18.4
Scalability	78	100	B+	20	15.6
Network Optimization	82	100	B	15	12.3
TOTAL			B+	100	86.75

CRITICAL ISSUES

Issue	Priority	Impact	Estimated Fix Time	Resource Required	
Menu Loading Performance	HIGH	User Experience	1-2 weeks	2 developers	
Database Optimization	HIGH	Scalability	2-3 weeks	1 backend developer	
Load Balancing	MEDIUM	Peak Performance	3-4 weeks	1 DevOps engineer	
Image Optimization	MEDIUM	Loading Speed	1 week	1 frontend developer	

REKOMENDASI OPTIMASI

Area	Recommendation	Expected Improvement	Implementation Effort	
Database	Implement connection pooling	30% faster queries	Medium	
Caching	Redis implementation	50% faster responses	High	

CDN	Asset delivery optimization	40% faster loading	Low		
Auto-scaling	Dynamic resource allocation	Handle 5x more users	High		
DEPLOYMENT READINESS ASSESSMENT					
Aspect	Current Status	Required for Deployment	Gap Analysis		
User Acceptance	82% satisfaction	≥ 80%	READY		
Functionality	All features working	100% core features	READY		
Stability	96% uptime	≥ 95%	READY		
Performance	B+ grade	≥ B grade	READY		
Scalability	200 concurrent users	≥ 100 users	READY		
Security	Basic implementation	Security audit required	NEEDS REVIEW		