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Departemen Teknik Informatika Fakultas Teknologi Elektro dan Informatika Cerdas Institut Teknologi Sepuluh Nopember 2021/2022



DOCUMENT CONTROL

INFORMASI DOKUMEN

	Informasi
Id Dokumen	Dokumen Manajemen Kualitas #1
Pemilik Dokumen	Kelompok C05
Tanggal Rilis	24 Oktober 2021
Tanggal Penyimpanan Terakhir	26 Oktober 2021
Nama File	Dokumen Manajemen Kualitas C05

RIWAYAT DOKUMEN

Versi	Tanggal RIIis	Perubahan
[1.0]	26 Oktober 2021	Keseluruhan Dokumen

PENGESAHAN DOKUMEN

Peran	Nama	Tanda Tangan	Tanggal
Project Sponsor	Muhammad Rivadhli Purnomo		
Project Review Group	Sarwosri, S.Kom. M.T		
Project Manager.	Cahyadesthian R. W.		
Quality Manager	Rihan Farih Bunyamin		
Procurement Manager	Faisal Reza M.		
Communications Manager	Muh. Nur Fajrin A.		
Project Office Manager	Sarwosri, S.Kom. M.T		



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STANDAR KUALITAS

Dalam proses pemantauan kualitas terhadap pengembangan proyek pembuatan TCMerch, akan digunakan ISO/IEC 9126. ISO 9126 adalah standar evaluasi yang telah diakui secara internasional dalam mengevaluasi sebuah perangkat lunak dari sisi software engineering. Model ini dipandang sebagai standar yang pengukurannya cukup valid, reliable dan efisien dalam mengukur kualitas dari sebuah perangkat lunak. Karakteristik yang terdapat pada ISO/IEC 9126 dilihat mampu memberikan tolak ukur yang baik dalam mengevaluasi website TC Merch nantinya. Evaluasi difokuskan pada bidang efektivitas, produktivitas, keamanan, dan Kepuasan. Gambar berikut menunjukkan metriks dari keempat bidang ISO/IEC 9126.

Matriks Efektivitas

Metric Name	Purpose of the metrics	Method of application	Measurement, formula and data element computations	Interpretation of measured value	Metric scale type	Measure type	Input to measuremen	12207	Target audience
							t	reference	
ask	What proportion	User test	M1 = 1-ΣA _i ₁	0<= M1 <=1	-	A= ?	Operation	6.5 Validation	User
ffectiveness	of the goals of		A= proportional value of each missing or	The closer to			(test) report	5.3 Qualifica-	
	the task is achieved		incorrect component in the task output	1.0 the better.			User	tion testing 5.4 Operation	Human interface
	correctly?						monitoring record	5.4 Operation	designer
			tcomes and potential safety issues.) (See for e able, reproducible and meaningful. X = A/B	0<= X <=1	Ratio	A =	Operation	6.5 Validation	User
	of the attended on the					Count	(test) report	5.3 Qualifica-	
	of the tasks are		A grapher of tools consoleted	The closer to			(test) report		Lhoman
	completed?		A = number of tasks completed B = total number of tasks attempted	The closer to 1.0 the better.		B =	User	tion testing	Human
			A = number of tasks completed B = total number of tasks attempted			B = Count	User monitoring		interface
						B =	User	tion testing	interface
IOTE This metri	completed?	or one user or a group o		1.0 the better.	etric should be u	B = Count X = Count/Count	User monitoring	tion testing	Human interface designe
OTE This metri	completed? ic can be measured for the work of the complete of	or one user or a group o	B = total number of tasks attempted	1.0 the better.	etric should be us	B = Count X = Count/Co unt sed	User monitoring record	tion testing 5.4 Operation 6.5 Validation	interface
	completed?		B = total number of tasks attempted f users. If tasks can be partially completed the Ta	1.0 the better.		B = Count X = Count/Co unt sed	User monitoring record	tion testing 5.4 Operation	interface designe





Matriks Produktivitas

Metric Name	Purpose of the metrics	Method of application	Measurement, formula and data element computations	Interpretation of measured value	Metric scale type	Measure type	Input to measuremen t	12207 reference	Target audience
Task time	How long does it take to complete	User test	X = Ta	0<= X The smaller the	Interval	T= Time	Operation (test) report	6.5 Validation 5.3 Qualifica-	User
	a task?			better.				tion testing	Human
			Ta = task time	better.			User	5.4 Operation	interface designer
							record		
Task efficiency	How efficient are the users?	User test	X = M1 / T	0<= X		T= Time	Operation (test) report	6.5 Validation 5.3 Qualifica-	User
			M1 = task effectiveness	The larger the		X=		tion testing	Human
			T = task time	better.			User		interface
							monitoring record	5.4 Operation	designer
conomic	How cost-	User test	X = M1 / C	0<= X		T= Time	Operation	6.5 Validation	User
roductivity	effective is the			The larger the		X=	(test) report	5.3 Qualifica-	
	user?		M1 = task effectiveness	better.				tion testing	Human
			C = total cost of the task				User	5.4 Operation	interface
							monitoring record		designer
IOTE Costs co	uld for example includ	e the user's time, the	e time of others giving assistance, and the cost of c	omputing resources, te	lephone calls, ar	nd materials			
roductive	What proportion	User test	X = Ta / Tb	0<= X <=1	Absolute	Ta=Time	Operation	6.5 Validation	User
roportion	of the time is the			The closer to		Tb=Time	(test) report	5.3 Qualifica-	
	user performing		Ta = productive time =	1.0 the better.		X= Time/		tion testing	Human
			task time - help time - error time - search	1.0 the better.		Time	User	5.4 Operation	interface
	productive						monitoring		designer
	productive actions?						-		
			time Tb = task time				record		
IOTE This met	actions?	analysis of a videota	time	i, Bevan N and Curson	n I (1997) The I	MUSiC Perfo	record	ment method, Be	ehaviour and
IOTE This met Information Techno	actions? ric requires detailed a logy, 16, 279-293.) How efficient is	analysis of a videota	time Tb = task time	i, Bevan N and Curson 0 <= X <=1	n I (1997) The I	X =	record rmance Measure	6.5 Validation	ehaviour and
IOTE This met Information Techno	actions? ric requires detailed a logy, 16, 279-293.) How efficient is a user	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	time Tb = task time ape of the interaction (see Macleod M, Bowden R				record rmance Measure	6.5 Validation 5.3 Qualifica-	User
IOTE This met	actions? ric requires detailed a logy, 16, 279-293.) How efficient is a user compared to an	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	time Tb = task time ape of the interaction (see Macleod M, Bowden R Relative user efficiency X = A / B	0<= X <=1		X =	record rmance Measure Operation (test) report	6.5 Validation 5.3 Qualifica- tion testing	User Human
IOTE This met Information Techno	actions? ric requires detailed a logy, 16, 279-293.) How efficient is a user	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	time Tb = task time ape of the interaction (see Macleod M, Bowden R	0<= X <=1 The closer to		X =	record rmance Measure	6.5 Validation 5.3 Qualifica-	User

Matriks Keamanan

	Purpose of the metrics	Method of application	Measurement, formula and data element computations	Interpretation of measured value	Metric scale type	Measure type	Input to measuremen t	12207 reference	Target audience
User health and safety NOTE Health po	What is the incidence of health problems among users of the product?	Usage statistics	X = 1-A / B A = number of users reporting RSI B = total number of users fatigue, headaches, etc.	0<= X <=1 The closer to 1 the better.	Absolute	A = count B = count X = count/ count	Usage monitoring record	5.4 Operation	User Human interface designer
Safety of people affected by use of the system	What is the incidence of hazard to people affected	Usage statistics	X = 1-A/B $A = number of people put at hazard$ $B = total number of people potentially$	0<= X <=1 The closer to 1 the better.	Absolute	A = count B = count X = count/	Usage monitoring record	5.3 Qualification Testing 5.4 Operation	User Human interface
	by use of the		affected by the system			count			designer
NOTE An examp	system?	atient Safety, where A	= number of patients with incorrectly prescribed tr	reatment and B = total r	number of patien	ıts			Developer
IOTE An examp Economic lamage	•	atient Safety, where A =	= number of patients with incorrectly prescribed to X = 1-A/B A = number of occurrences of economic damage B = total number of usage situations	eatment and B = total r 0 <= X <=1 The closer to 1 the better.	number of patien Absolute	A = count B = count X = count/ count	Usage monitoring record	5.4 Operation	User Human interface designer Developer





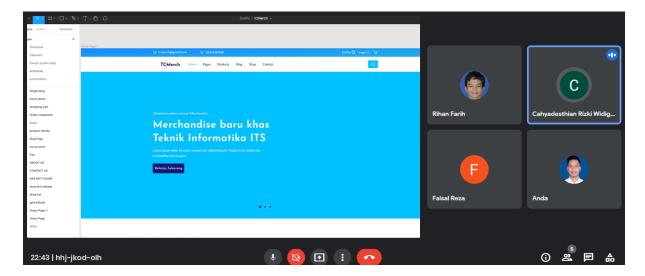
Matriks Kepuasan

Metric Name	Purpose of the metrics	Method of application	Measurement, formula and data element computations	Interpretation of measured value	Metric scale type	Measure type	Input to measuremen t	12207 reference	Target audience
Satisfaction scale	How satisfied is the user?	User test	X = A/B A = questionnaire producing psychometric scales B = population average	0 <x larger<br="" the="">the better</x>	Ratio.	A= Count X= Count	Operation (test) report	6.5 Validation 5.3 Qualifica- tion testing 5.4 Operation	User Human interface
NOTE Example	s of psychometric que	estionnaires can be fo	und in E.3.				monitoring record		designer Develope
Satisfaction questionnaire	How satisfied is the user with	User test	$X = \sum (A)/n$ $A_i) = \text{response to a question}$	Compare with previous values,	Ord.	A= Count X= Count	Operation (test) report	6.5 Validation 5.3 Qualifica-	User
	specific software features?		n = number of responses	or with population average			User monitoring record	tion testing 5.4 Operation	Human interface designer
NOTE If the que	estionnaire items are o	combined to give an o	verall score, they should be weighted, as different q	uestions may have d	lifferent importan	ce.			Develope
Discretionary usage	What proportion of potential users choose to use the system?	Observation of usage	X = A/B A= number of times that specific software functions/applications/systems are used	0<=X<=1 The closer to 1 the better.	Ratio	A = Count B = Count	Operation (test) report	6.5 Validation 5.3 Qualifica- tion testing 5.4 Operation	User Human interface
			B = number of times they are intended to be used			X = Count/Co unt	monitoring record		designer

Selain itu, dalam pemantauan kualitas TCMerch juga dilakukan *walkthorugh*, *sofware inspection*, dan *technical review*.

WALKTHROUGH

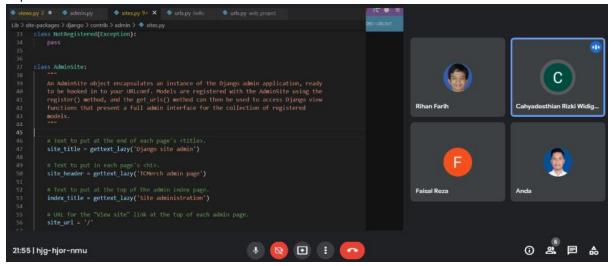
 Walkthrough pertama dilakukan oleh analis dan designer yang memresentasikan mengenai use case diagram, CDM dan PDM, dan hal-hal lain yang berhubungan seperti misalnya logo dan desain website untuk menyesuaikan dengan kebutuhan *client*.







 Walkthorugh kedua dilakukan oleh programmer dengan menjelaskan proses pembuatan dalam implementasi website TCMerch.



SOFTWARE INSPECTION

Software inspection dilakukan untuk meninjau hal-hal yang dikerjakan sudah memenuhi kebutuhan fungsional yang diiginkan oleh *client* atau belum.

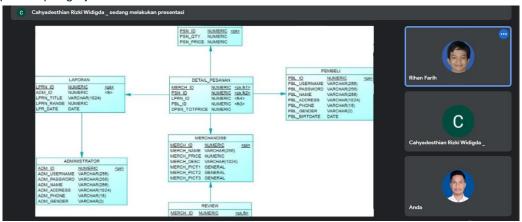
Nama Parameter	Sesuai					
Analisa dan Desain Sisitem						
Use Case Diagram	✓					
Use Case Spesification	✓					
CDM	✓					
PDM	✓					
Desain Aplikasi						
Halaman Login						
Halaman Pendaftaran						
Halaman Etalase Merchandise						
Halaman Detail Merchandise						
Halaman Profil						
Halaman Pembeli Daftar						
Halaman Pemesanan						
Pembuatan Program						
Pendaftaran						
Login						
Mengelola Data Diri						
Mengelola Merchandise						
Melakukan Proses Pemesanan						
Pembatalan Pemesanan						
Mengelola data Pembeli						
Fitur Review Merchandise						
Fitur Laporan Pendapatan						





TECHNICAL REVIEW

Sejauh ini, technical review dilakukan untuk mengobservasi dan mengevaluasi proses yang sedang dalam proses pengerjaan



QUALITY OBJECTIVES

DELIVERY TO SCOPE

Pengukuran metrik ini dilakukan dengan melibatkan *client* dalam memberikan penilaian terhadap proses atau hal-hal yang dikerjakan serta melakukan *user acceptance testing* dari hal-hal yang memungkinkan.

DELIVERY ON TIME

Proses pengerjaan TC Merch memiliki waktu sebagai berikut





Task Name	Duration	Start	Finish	Actual Start	Actual Finish	Actual Duration
Sistem Informasi Merchandise Informatika ITS (TC Merch)	70 days	Mon 9/6/21	Fri 12/10/21			Duration
Initiating	2 days	Mon 9/6/21	Tue 9/7/21	Mon 9/6/21	Tue 9/7/21	2 days
Pemilihan PM dan peran tim	1 day	Mon 9/6/21	Mon 9/6/21	Mon 9/6/21	Mon 9/6/21	1 day
Identifikasi Stakeholder	1 day	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	1 day
Membuat Project Charter	1 day	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	1 day
Mendefinisikan Proyek dan tujuannya	1 day	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	1 day
Menentukan Batasan Umum Proyek	1 day	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	1 day
Menentukan Project Deliverables	1 day	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	Tue 9/7/21	1 day
Planning	15 days	Wed 9/8/21	Tue 9/28/21			
Pembuatan Dokumen Manajemen Cakupan	2 days	Wed 9/8/21	Thu 9/9/21	9/21/2021	9/23/2021	2 days
Mendefinisikan Ruang Lingkup	1 day	Wed 9/8/21	Wed 9/8/21	9/21/2021	9/23/2021	
Pembuatan WBS	1 day	Thu 9/9/21	Thu 9/9/21	9/21/2021	9/23/2021	
Pembuatan Dokumen Perencanaan Kebutuhan	2 days	Fri 9/10/21	Sat 9/11/21	9/17/2021	9/23/2021	
Mengumpulkan informasi kebutuhan	1 day	Fri 9/10/21	Fri 9/10/21	9/17/2021	9/23/2021	
Menganalisis Kebutuhan	1 day	Sat 9/11/21	Sat 9/11/21	9/17/2021	9/23/2021	
Pembuatan Dokumen Manajemen Waktu	3 days	Sun 9/12/21	Tue 9/14/21	9/21/2021	9/28/2021	3 days
Mendefinisikan Kegiatan	1 day	Sun 9/12/21	Sun 9/12/21	9/21/2021	9/28/2021	
Memperkirakan Sumber Daya dan Waktu Kegiatan	1 day	Sun 9/12/21	Sun 9/12/21	9/21/2021	9/28/2021	
Menyusun Jadwal Kegiatan	1 day	Mon 9/13/21	Mon 9/13/21	9/22/2021	9/28/2021	
Membuat Gantt Chart dan CPM	1 day	Tue 9/14/21	Tue 9/14/21	9/23/2021	9/28/2021	
Pembuatan Dokumen Manajemen Biaya	2 days	Wed 9/15/21	Thu 9/16/21	9/28/2021	10/4/2021	2 Days
Memperkirakan Biaya	1 day	Wed 9/15/21	Wed 9/15/21	10/2/2021	10/4/2021	
Menentukan Budget	1 day	Wed 9/15/21	Wed 9/15/21	10/2/2021	10/4/2021	
Menetukan Toleransi Biaya Proyek	1 day	Thu 9/16/21	Thu 9/16/21	10/2/2021	10/4/2021	
Menentukan Sistem Pelaporan Biaya	1 day	Thu 9/16/21	Thu 9/16/21	10/2/2021	10/4/2021	
Pembuatan Dokumen Manajemen Kualitas	2 days	Fri 9/17/21	Sat 9/18/21	10/24/2021	10/26/2021	3 days
Menentukan Pokok Kualitas	1 day	Fri 9/17/21	Fri 9/17/21	10/24/2021	10/26/2021	
Menentukan Tanggung Jawab Kualitas	1 day	Fri 9/17/21	Fri 9/17/21	10/24/2021	10/26/2021	
Menentukan Pendekatan Kontrol Kualitas	1 day	Sat 9/18/21	Sat 9/18/21	10/24/2021	10/26/2021	
Pembuatan Dokumen Manajemen Sumber Daya	2 days	Sun 9/19/21	Mon 9/20/21			
Pembuatan Bagan Organisasi	1 day	Sun 9/19/21	Sun 9/19/21			
Mendeskripsikan Peran dan Tanggung Jawab	1 day	Sun 9/19/21	Sun 9/19/21			
Mendeskripsikan Kebutuhan Tim	1 day 2 days	Mon 9/20/21 Tue 9/21/21	Mon 9/20/21 Wed 9/22/21			
Pembuatan Dokumen Manajemen Komunikasi	12 days	Tue 3/21/21	wed 3/22/21	I		
Pembuatan Dokumen Manajemen Resiko	2 days	Thu 9/23/21	Fri 9/24/21			
Menentukan Metodologi Manajemen Resiko	1 day	Thu 9/23/21	Thu 9/23/21			
Mengidentifikasi Resiko	1 day	Fri 9/24/21	Fri 9/24/21			
Pembuatan Dokumen Manajemen Pengadaan	3 days	Sat 9/25/21	Tue 9/28/21			
Mendeskripsikan alur pengadaan barang	1 day	Sat 9/25/21	Sat 9/25/21			
Menentukan tipe pengadaan barang	1 day	Sun 9/26/21	Sun 9/26/21			
Mendeskripsikan Integrasi Barang	1 day	Mon 9/27/21	Mon 9/27/21			
Executing	46 days	Tue 9/28/21	Tue 11/30/21			
Perancangan	3 days	Tue 9/28/21	Thu 9/30/21			
Pembuatan CDM dan PDM	1 day	Tue 9/28/21	Tue 9/28/21	9/29/2021	9/29/2021	1 day
Pembuatan Mock Up	3 days	Tue 9/28/21	Thu 9/30/21	10/27/2021	10/29/2021	3 days
Implementasi	37 days	Fri 10/1/21	Mon 11/22/21			
Coding Website Front-End	7 days	Fri 10/1/21	Mon 10/11/21			
Coding Website Back-End	30 days	Tue 10/12/21	Mon 11/22/21			
Testing & Deployment	6 days	Tue 11/23/21	Tue 11/30/21			
Test secara lokal	2 days	Tue 11/23/21	Wed 11/24/21			
Test secara online	2 days	Thu 11/25/21	Fri 11/26/21			
Melakukan Debug	2 days	Sat 11/27/21	Mon 11/29/21			
Monitoring and Controling	22 days	Mon 11/8/21	Tue 12/7/21			
Verifikasi ruang lingkup Validasi pemenuhan kebutuhan	2 days	Tue 11/30/21 Wed 12/1/21	Wed 12/1/21			
Kontrol Waktu	1 day 1 day	Thu 12/2/21	Wed 12/1/21 Thu 12/2/21			
Kontrol Waktu Kontrol Biaya	1 day	Fri 12/3/21	Fri 12/3/21			
Melakukan quality control	2 days	Sat 12/4/21	Sun 12/5/21			
Melaporkan kinerja sumber daya	1 day	Mon 12/6/21	Mon 12/6/21			
Kontrol Komunikasi	1 day	Tue 12/7/21	Tue 12/7/21			
Kontrol Resiko	1 day	Mon 11/8/21	Mon 11/8/21			
Mengelola Pengadaan	2 days	Wed 11/10/21				
Closing	3 days	Wed 11/10/21 Wed 12/8/21	Fri 12/10/21			
Melakukan Pelatihan Pengguna	2 days	Wed 12/8/21	Thu 12/9/21			
Penyerahan Deliverable dan Laporan Proyek	1 day	Fri 12/10/21	Fri 12/10/21			
Penutupan Pengadaan	1 day	Fri 12/10/21	Fri 12/10/21			
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DELIVERY ON BUDGET

Actual costs +/- change orders versus budget.

ADHERENCE TO ACME PROJECT METHODOLOGY

PMO audit comparison of method versus project management deliverables.

QUALITY ROLES AND RESPONSIBILITIES

Roles	Nama	Responsibilities
Quality Manager	Cahyadesthian R. Widigda	Meninjau dan memastikan perangkat lunak yang dikembangkan memenuhi kebutuhan <i>client</i> dengan baik dan memenuhi standar yang digunakan
Project Manager	Cahyadesthian R. Widigda	Mengatur jalannya pengerjaan proyek, memastikan apa yang dikerjakan dapat berjalan sesuai jadwal dan memberikan alternatif jika terdapat sesuatu yang tidak sesuai jadwal
Developers	Faisal Reza Maulana	Melakukan pengembangan sistem dengan mempertimbangkan waktu dan standar yang ditetapkan

DELIVERABLES AND PROCESSES SUBJECT TO QUALITY REVIEW

Deliverable or process that will reviewed	Details of quality review
User Acceptance Testing	Pengguna Sistem dapat berinteraksi dengan sistem sesuai dengan Use Case diagram dan spesifikasi yang telah disepakati
Aksesbilitas	Sistem dapat diakses dari berbagai perangkat khususnya melalui desktop dan mobile
Sistem Informasi TCMerch	 Dapat memenuhi kebutuhan stakholder Tidak ditemukan <i>error</i> dalam proses penggunaan sistem
Dokumen Project Charter	Sesuai dengan batasan proyek yang disepakati





Dokumen Manajemen Ruang Lingkup	Memiliki deskripsi yang jelas terhadap cakupan pekerjaan proyek pengembangan sistem TC Merch		
Dokumen Perencanaan Kebutuhan	Menggambarkan kebutuhan dan analisa dari pengguna yang berinteraksi dengan sistem TC Merch		
Dokumen Penjadwalan	Memilki waktu atau timeline dari pengerjaan sistem dan terupdate sesuai kondisi tim		
Dokumen Manajemen Biaya	Mengandung anggaran biaya yang mewakili kebutuhan pengembangan sistem		
Dokumen Manajemen Kualitas	Menjadi tolak ukur kualitas ketercapaian sistem TC Merch		
Dokumen Manajemen Komunikasi	Menggambarkan sistem komunikasi antara stakeholder dalam proses pengembangan TC Merch		
Dokumen Manajemen Sumber Daya	Mengandung penjelasan mengenai sumber daya yang dibutuhkan dalam pengembangan proyek TC Merch		
Dokumen Manajemen Resiko	Mendeskripsikan langkah-langkah dalam mengelola resiko terhadap proses pengembangan sistem TCMerch		
Dokumen Manajemen Pengadaan	Mendeskripsikan hal-hal yang berkaitan dengan pengadaan kebutuhan dan hal lainnya yang berhubungan dengan sistem TCMerch		





QUALITY CONTROL APPROACH

Quality control process	Milestones	Owner	Documentation
Validasi Dokumen Manajemen	Penyelesaian Tahap Planning(September 2021)	Project Manager	validasi_dokumen_manajemen.pdf
Pengerjaan Sistem TC Merch	Sistem TCMerch yang dikembangkan dapat memberikan pengalaman penggunaan sistem (November 2021)	Project Manager	
Walkthrough, Software Inspection, dan Technical Review	Sistem TCMerch dapat berjalan dengan baik dan memenuhi kebutuhan client(November 2021)	Quality Manager	
Website TCMerch	Sistem TCMerch bisa diakses secara online(Desember 2021)	Project Manager	





REFERENCE

https://acqnotes.com/acqnote/careerfields/quality-management-plan-qmp (Quality Management Plan (QMP))

https://standards.ieee.org/standard/90003-2018.html (IEEE/ISO/IEC 90003-2018 - ISO/IEC/IEEE International Standard - Software engineering -- Guidelines for the application of ISO 9001:2015 to computer software)

https://www.w3.org/standards/webofservices/

https://www.w3.org/Payments/

https://www.academia.edu/15062663/IEEE Standard for Software Quality Assurance Processes

https://www.iso.org/standard/39752.html (ISO/IEC TR 9126-4:2004 Software engineering — Product quality — Part 4: Quality in use metrics)

 $\underline{\text{https://media.neliti.com/media/publications/242647-analysis-web-education-based-on-isoiec-9-a2e4fe0d.pdf}$

