Prompting Vorschläge

1.Zero-shot

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen fehlen, behalte die Labels in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation.

Nachfolgend finden Sie die Kundenanforderungen:

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.
4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

2. One-shot

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer

Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation.

Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Sie nutzen das folgende Beispiel als Referenz, um eine konsistente Struktur und vollständige Abdeckung aller relevanten Kriterien sicherzustellen.

Kategorie	Kundenanforderung	Projektanforderung
<mark>4.2.2</mark>	The [VESSEL8] must be capable of	The distance achievable at a speed of
Operating	traveling independently for a	[CARDINAL_1] knots in sea state 4:
Range	minimum of [CARDINAL_1] nautical	- The estimated distance is no less than
	miles at a speed of at least	[CARDINAL_2] nautical miles with
	[CARDINAL_2] knots, even in	[CARDINAL_3] % burnable fuel remaining
	conditions up to and including the	(BFR). This estimation includes a
	highest level of Sea State 4 (SS4).	[DECIMAL_1] t fuel allowance for seaboat
		operations. The distance calculation
		adheres to [STANDARD8].

Nachfolgend finden Sie die Kundenanforderungen:

Kategorie	Kundenanforderung
	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.

4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109]
	self-righting seaboats within the same POE as the
	[VESSEL109].

Erstellen Sie als Ausgabe eine Excel-Tabelle (XLSX) mit den folgenden Spalten:

- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis
 11 Spalten)

3. Few-shot

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
					ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
											10	11

4.2	The	Loitering	Loiterin	Lingerin
	[VESSEL4]	_	g	g
	Ī .		between	
		-	[CARDI	n
	speed		NAL_1]	[CARDI
	ranging		and	NAL_1]
	0 0	-	[CARDI	and
	[CARDINA	_	- NAL_2]	[CARDI
	- L_1] to	- Aft	kn:	NAL_2]
	- [CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	_
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		knots,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum		
	engine		
	operation		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
tin	traveling	speed of	
g	independe	[CARDIN	
Ra	ntly for a	AL_1]	
nge	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	

		estimatio			•							
		n in alveda a										
		includes										
		a [DECIMA										
		L_1]t										
		tuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2		-	Provisio	The	The	Cons	The	Endur	The	The	The	The
	[VESSEL1						[VESS					[VESS
	2] must be	Maximu		L12] S-	Γ	es:	_		EL12]	_		_
	capable of		Maximu	SSC will	2] S-	_	S-SSC		s-ssc	_		S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	capac	will			SSC
се	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	_	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity /	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	days	levels	sary	ding	ng
	accommo	persons)	days	model	el for	DINAL	operat	for	on the	S&TE	enou	levels
	dating	-	([CARDI	operati	all	_1]	ional	[CAR	OAL	on	gh	on
	[CARDINA	Maximu	NAL_2]	ng	ident	days	suppo	DINAL	for all	the	physi	the
	L_2]	m load:	persons	support	ified	([CAR	rt on	_2]	identif	OAL	cal	RPL
	persons.	[CARDIN)	(Organi	main	DINAL	the	indivi	ied	to	resou	for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso	and		enanc	ate all	to	fied
		Minimum	[CARDI	ance)	physi	ns)	RPL,		e	-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi	
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal	
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou	
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces	
			operatio		DINA	-	equip	[CAR		L12]	adeq	
			n:		L12]	Minim	ment,	DINAL		days.	uate	
			[DECIM		days.	um	and	12]			for	
			AL12] t			prelim	rigging	days			[CAR	
			([CARDI			inary	warra	of			DINA	
			NAL_4]			opera	nt.	endur			L12]	
			%)			tion:		ance.			days	
						[DECI					of	
						MAL1					endur	
						2] t					ance.	
						([CAR						
						DINAL						
						_4] %)						
4.2	The	Running	Charact									
.4	[VESSEL1	the	eristics									
Fu	6] must	diesel	of all									
			three									
	[STANDAR		seaboat									
рр			s:									
ort	Naval	complian										
	Dictillata	CE With	IVESSEI	ĺ								

Distillate ce with [VESSEL [STANDA 16] that RD16] is seaboat meets [STANDAR allowed. s shall D_2] use the specificati same fuel/s as ons. the [VESSEL 16].

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
	•	conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

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4. Chain-of-thought (CoT)

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung mit mindestens einer Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Denken Sie bei der Erstellung Schritt für Schritt nach (Chain-of-Thought) und erläutern Sie, wie Sie die Anforderungen strukturieren und formulieren. Nach jedem Zwischenschritt reflektieren Sie Ihre Vorgehensweise, überprüfen die Konsistenz der Struktur und Inhalte und geben gegebenenfalls Verbesserungsvorschläge. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
					ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
											10	11
4.2	The	Loitering	Loiterin	Lingerin								
.1	[VESSEL4]	between	g	g								
Vel	can loiter	[CARDIN	between	betwee								
oci	at any	AL_1]	[CARDI	n								
ty	speed	and	NAL_1]	[CARDI								
	ranging	[CARDIN	and	NAL_1]								
	from	AL_2]	[CARDI	and								
	[CARDINA	knots:	NAL_2]	[CARDI								
	L_1] to	- Aft	kn:	NAL_2]								
	[CARDINA	operatio	- The	kn:								

l Ollmata		D/ECCEL	
L_2] knots		[VESSEL	-
' '		-	Followi
	conducte		ng
			[CARDI
l '	[CARDIN		_
[CARDINA	_		hours
L_3] hours		•	of
(engine			inactivit
limitation)			y, a
with a	nt failure.	[CARDI	[CARDI
minimum		NAL_1]	NAL_4]
shaft		to	minute
speed of		[CARDI	engine
[CARDINA		NAL_2]	burnout
L_4]		knots,	is
rotations		with a	require
per		minimu	d.
minute.		m shaft	
After		speed of	
[CARDINA		[CARDI	
L_5]		NAL_3]	
hours, a		rotation	
[CARDINA		s per	
L_6]		minute.	
minute			
engine			
"burnout"			
must be			
performed			
at a			
minimum			
engine			
operation			
of			
[CARDINA			
L_7]			
rotations			
per			
minute			
before			

continuing to loiter. 4.2 The The .2 [VESSEL8] distance Op must be achievab era capable of le at a tin traveling speed of independe [CARDIN Ra ntly for a AL_1] nge minimum of sea state [CARDINA 4:				
4.2 The .2 [VESSEL8] distance on must be era capable of le at a speed of independe of le at a minimum of sea state of least a speed of least le		continuing		
.2 [VESSEL8] distance must be achievab era capable of le at a tin traveling speed of g independe [CARDIN] Ra ntly for a ntly for a nof sea state [CARDINA] L_1] - The nautical estimate miles at a speed of at least is no less [CARDINA] L_2] [CARDIN] knots, AL_2] even in nautical conditions miles up to and including the AL_3] % highest burnable level of Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		to loiter.		
.2 [VESSEL8] distance must be achievab era capable of le at a tin traveling speed of g independe [CARDIN] Ra ntly for a ntly for a nof sea state [CARDINA] L_1] - The nautical estimate miles at a speed of at least is no less [CARDINA] L_2] [CARDIN] knots, AL_2] even in nautical conditions miles up to and including the AL_3] % highest burnable level of Sea State remainin 4 (SS4). g (BFR). This estimatio n includes				
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Op must be capable of le at a tin traveling speed of gindepende [CARDIN Ra ntly for a htly for a of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions up to and including fuel sea State level of sea State remainin 4 (SS4). [GBR). This estimatio n includes	4.2	The	The	
era capable of tin traveling speed of gindepende [CARDIN Ra ntly for a ntly for a ntly for a nge minimum knots in of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in conditions up to and including the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes	.2	[VESSEL8]	distance	
tin traveling independe [CARDIN Ra ntly for a AL_1] mge minimum knots in of sea state [CARDINA 4: L_1] - The nautical estimate miles at a d speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes	Op	must be	achievab	
g independe [CARDIN AL_1] nge minimum knots in of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including [CARDIN the AL_3] % highest burnable level of Sea State remainin 4 (SS4). g (BFR). This estimatio n includes	era	capable of	le at a	
Ra intly for a minimum of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including including [CARDIN the AL_3] % highest burnable level of sea State remainin 4 (SS4). In the mincludes	tin	traveling	speed of	
minimum of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including including the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes	g	independe	[CARDIN	
of sea state [CARDINA 4: L_1] - The nautical estimate miles at a speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including the AL_3] % highest burnable level of sea State remainin 4 (SS4). g (BFR). This estimatio n includes	Ra	ntly for a	AL_1]	
[CARDINA 4: L_1] - The nautical estimate miles at a d speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes	nge	minimum	knots in	
L_1] - The nautical estimate miles at a d speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and with including ICARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		of	sea state	
nautical estimate miles at a d speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including including the AL_3] % highest burnable level of Sea State remainin 4 (SS4). g (BFR). This estimatio in includes		[CARDINA	4:	
miles at a speed of distance at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		L_1]	- The	
speed of at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including including the AL_3] % highest burnable level of sea State remainin 4 (SS4). g (BFR). This estimatio n includes		nautical	estimate	
at least is no less [CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including ICARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). It is estimation includes		miles at a	d	
[CARDINA than L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		speed of	distance	
L_2] [CARDIN knots, AL_2] even in nautical conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		at least	is no less	
knots, AL_2] even in nautical conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		[CARDINA	than	
even in nautical conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		L_2]	[CARDIN	
conditions miles up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		knots,	AL_2]	
up to and with including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		even in	nautical	
including [CARDIN the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		conditions	miles	
the AL_3] % highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		up to and	with	
highest burnable level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		including	[CARDIN	
level of fuel Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		the	AL_3] %	
Sea State remainin 4 (SS4). g (BFR). This estimatio n includes		highest	burnable	
4 (SS4). g (BFR). This estimatio n includes		level of	fuel	
This estimatio n includes		Sea State	remainin	
estimatio n includes		4 (SS4).	g (BFR).	
n includes			This	
includes			estimatio	
a			includes	
			a	

		[DECIMA			-							
		L_1] t										
		fuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on 										
		adheres										
		to										
		[STANDA										
		RD8].						1			ı	1
4.2	The	Waste:	Provisio	The	The	Cons	The	Endur	The	The	The	The
.3	[VESSEL1	-	ns:	[VESSE	[VES	umabl	[VESS	ance /	[VESS	[VESS	[VES	[VESS
En	2] must be	Maximu	-	L12] S-	SEL1	es:	EL12]	Stora	EL12]	EL12]	SEL1	EL12]
dur	capable of	m	Maximu	SSC will	2] S-	-	S-SSC	ge	S-SSC	S-	2] S-	S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	сарас	will	SSC	SSC	SSC
ce	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	-	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity/	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	days	levels	sary	ding	ng
	accommo	persons)	days	model	el for	DINAL	operat	for	on the	S&TE	enou	levels
	dating	-	([CARDI	operati	all	_1]	ional	[CAR	OAL	on	gh	on
	[CARDINA	Maximu	NAL_2]	ng	ident	days	suppo	DINAL	for all	the	physi	the
	L_2]	m load:	persons	support	ified	([CAR	rt on	_2]	identif	OAL	cal	RPL
	persons.	[CARDIN)	(Organi	main	DINAL	the	indivi	ied	to	resou	for all
		AL_3] t			tena			duals.	maint	facilit	rces	identi
		-		Mainten	nce	perso	and		enanc	ate all	to	fied
		Minimum			physi	ns)	RPL,			specif		maint
		prelimina	_		cal	-	such		physic	-		enan
		ry	_			Total	as the			opera		
		operatio					DC		resour	-	-	physi
		•		Ī		[CAR				tasks.		
		[DECIMA		_		DINAL			adequ			resou
			ary	22,0.	[CAR		safety		ate for		DINA	
			·· <i>y</i>		- O, 111	ا۱ ,	Saloty		3.0 101		- // (. 555

			operatio	DINA		equip	[CAR	L12]	adeo
			n:		- Minim		DINAL	days.	
			[DECIM	days.		and	12]	_	for
			AL12] t	_		rigging	days		[CAF
			([CARDI		-	warra	of		DINA
			NAL_4]		opera		endur		L12]
			%)		tion:		ance.		days
					[DECI				of
					MAL1				endu
					2] t				ance
					([CAR				
					DINAL				
					_4] %)				
4.2	The	Running	Charact						
.4	[VESSEL1	the	eristics						
Fu	6] must	diesel	of all						
		J	three						
	[STANDAR		seaboat						
			s:						
		complian							
			[VESSEL						
		[STANDA	_						
		-	seaboat						
	[STANDAR	allowed.							
	D_2]		use the						
	specificati		same						
	ons.		fuel/s as						

4.2 The Turning .5 [VESSEL2 capabilit Ma 3] can ies: -The no rotate eu within its [VESSEL 23] can vra own bili length in maneuv er within ty calm condition [CARDI NAL23] s as

the

[VESSEL 16].

specified	ship
in	lengths
F_4.2.5.8	in calm
•	conditio
	ns as
	describe
	d in
	F_4.2.5.
	8,
	continge
	nt on
	crew
	proficien
	су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.
4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)

5. Tree-of-thought (ToT)

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Verwenden Sie dabei einen Tree-of-Thought-Ansatz, bei dem Sie den Denkprozess als verzweigten Baum strukturieren. Jeder Knoten soll eine Teillösung oder Designüberlegung darstellen. Bewerten Sie an jedem Knoten den aktuellen Stand der Anforderungen, ziehen Sie mögliche Alternativen in Betracht und nehmen Sie gegebenenfalls Rücksprünge (Backtracking) vor. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

	Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
•	ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
	rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
						ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
												10	11

4.2	The	Loitering	Loiterin	Lingerin
	[VESSEL4]	_	g	g
	Ī .		between	
		-	[CARDI	n
	speed		NAL_1]	[CARDI
	ranging		and	NAL_1]
	0 0	-	[CARDI	and
	[CARDINA	_	- NAL_2]	[CARDI
	- L_1] to	- Aft	kn:	NAL_2]
	- [CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	_
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		knots,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum engine operation		
	_		
	operation		
	loboration.		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
tin	traveling	speed of	
g	independe	[CARDIN	
Ra	ntly for a	AL_1]	
nge	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	
	Sea State	remainin g (BFR).	

		estimatio			•							
		n in alveda a										
		includes										
		a [DECIMA										
		L_1]t										
		tuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2		-	Provisio	The	The	Cons	The	Endur	The	The	The	The
	[VESSEL1						[VESS					[VESS
	2] must be	Maximu		L12] S-	Γ	es:	_		EL12]	_		_
	capable of		Maximu	SSC will	2] S-	_	S-SSC		s-ssc	_		S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	capac	will			SSC
се	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	_	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity /	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	days	levels	sary	ding	ng
	accommo	persons)	days	model	el for	DINAL	operat	for	on the	S&TE	enou	levels
	dating	-	([CARDI	operati	all	_1]	ional	[CAR	OAL	on	gh	on
	[CARDINA	Maximu	NAL_2]	ng	ident	days	suppo	DINAL	for all	the	physi	the
	L_2]	m load:	persons	support	ified	([CAR	rt on	_2]	identif	OAL	cal	RPL
	persons.	[CARDIN)	(Organi	main	DINAL	the	indivi	ied	to	resou	for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso	and		enanc	ate all	to	fied
		Minimum	[CARDI	ance)	physi	ns)	RPL,		e	-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces
			operatio		DINA	-	equip	[CAR		L12]	adeq
			n:		L12]	Minim	ment,	DINAL		days.	uate
			[DECIM		days.	um	and	12]			for
			AL12] t			prelim	rigging	days			[CAR
			([CARDI			inary	warra	of			DINA
			NAL_4]			opera	nt.	endur			L12]
			%)			tion:		ance.			days
						[DECI					of
						MAL1					endur
						2] t					ance.
						([CAR					
						DINAL					
						_4] %)					
4.2		J	Charact								
.4	[VESSEL1	the	eristics								
Fu	6] must	diesel	of all								
		J	three								
Su	[STANDAR		seaboat								
			s:								
		complian									
	Diatillata	oo with	INTEGEL								

Distillate ce with [VESSEL [STANDA 16] that RD16] is seaboat meets [STANDAR allowed. s shall D_2] use the specificati same ons. fuel/s as the [VESSEL 16].

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
	•	conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.
4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

Erstellen Sie als Ausgabe eine Excel-Tabelle (XLSX) mit den Spalten:

• Kategorie (1 Spalte)

- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)

6. Self-consistency

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Denken Sie Schritt für Schritt über den Prozess der Anforderungserstellung nach und entwickeln Sie dabei mehrere unterschiedliche Begründungspfade (Reasoning Paths). Nutzen Sie anschließend die Methode der Selbstkonsistenz (Self-Consistency), um die kohärentesten und zuverlässigsten Anforderungen aus den verschiedenen Pfaden zu aggregieren und auszuwählen. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

ſ	Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
,	ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
	rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
						ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
												10	11

4.2	The	Loitering	Loiterin	Lingerin
	[VESSEL4]	_	g	g
	Ī .		between	
		-	[CARDI	n
	speed		NAL_1]	[CARDI
	ranging		and	NAL_1]
	0 0	-	[CARDI	and
	[CARDINA	_	- NAL_2]	[CARDI
	- L_1] to	- Aft	kn:	NAL_2]
	- [CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	_
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		knots,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum engine operation		
	_		
	operation		
	loboration.		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
tin	traveling	speed of	
g	independe	[CARDIN	
Ra	ntly for a	AL_1]	
nge	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	
	Sea State	remainin g (BFR).	

		estimatio			•							
		n in alveda a										
		includes										
		a [DECIMA										
		L_1]t										
		tuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2		-	Provisio	The	The	Cons	The	Endur	The	The	The	The
	[VESSEL1						[VESS					[VESS
	2] must be	Maximu		L12] S-	Γ	es:	_		EL12]	_		_
	capable of		Maximu	SSC will	2] S-	_	S-SSC		s-ssc	_		S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	capac	will			SSC
се	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	_	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity /	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	days	levels	sary	ding	ng
	accommo	persons)	days	model	el for	DINAL	operat	for	on the	S&TE	enou	levels
	dating	-	([CARDI	operati	all	_1]	ional	[CAR	OAL	on	gh	on
	[CARDINA	Maximu	NAL_2]	ng	ident	days	suppo	DINAL	for all	the	physi	the
	L_2]	m load:	persons	support	ified	([CAR	rt on	_2]	identif	OAL	cal	RPL
	persons.	[CARDIN)	(Organi	main	DINAL	the	indivi	ied	to	resou	for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso	and		enanc	ate all	to	fied
		Minimum	[CARDI	ance)	physi	ns)	RPL,		e	-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces
			operatio		DINA	-	equip	[CAR		L12]	adeq
			n:		L12]	Minim	ment,	DINAL		days.	uate
			[DECIM		days.	um	and	12]			for
			AL12] t			prelim	rigging	days			[CAR
			([CARDI			inary	warra	of			DINA
			NAL_4]			opera	nt.	endur			L12]
			%)			tion:		ance.			days
						[DECI					of
						MAL1					endur
						2] t					ance.
						([CAR					
						DINAL					
						_4] %)					
4.2		J	Charact								
.4	[VESSEL1	the	eristics								
Fu	6] must	diesel	of all								
		J	three								
Su	[STANDAR		seaboat								
			s:								
		complian									
	Diatillata	oo with	INTEGEL								

Distillate ce with [VESSEL [STANDA 16] that RD16] is seaboat meets [STANDAR allowed. s shall D_2] use the specificati same ons. fuel/s as the [VESSEL 16].

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
		conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.
4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)

7. Ensemble refinement

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Denken Sie Schritt für Schritt über den Prozess der Anforderungserstellung nach und entwickeln Sie dabei mehrere unterschiedliche Begründungspfade (Reasoning Paths). Nutzen Sie anschließend die Methode des Ensemble Refinements, um diese Pfade selektiv zusammenzuführen und in eine einzige, kohärente und qualitativ hochwertige Anforderungsliste zu überführen. Der Prozess ist abgeschlossen, wenn alle Knoten der Pfade abgeglichen sind. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
					ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
											10	11

4.2	The	Loitering	Loiterin	Lingerin
.1	[VESSEL4]	between	g	g
Vel	can loiter		between	
oci	at any	_		n
ty	speed	and	NAL_1]	[CARDI
	ranging	[CARDIN	and	NAL_1]
	from	AL_2]	[CARDI	and
	[CARDINA	knots:	NAL_2]	[CARDI
	L_1] to	- Aft	kn:	NAL_2]
	[CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	-
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum		
	engine		
	operation		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
ting	traveling	speed of	
Ra	independe	[CARDIN	
nge	ntly for a	AL_1]	
	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	

		estimatio										
		n :										
		includes										
		[DECIMA										
		L_1] t										
		fuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on 										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2			Provisio		The		The	Endur		The		The
	[VESSEL1			-	Γ		[VESS		Γ	_		[VESS
	2] must be			L12] S-		es:	_		EL12]	_		_
	capable of		Maximu		_		S-SSC	_	S-SSC		-	S-
	operating 			provide		Maxi		capac				SSC
	independe		capacity						sugge			will
	ntly for at	Ε'	/	physica		-				deter		sugge
		_	Remark			_	-		stock			
	[CARDINA	-		resourc	-							stock
	L_1] days					rks:	ces	_	ľ	neces		
		_	_	· ·		_		_	levels	_	_	ng
	accommo	·					operat		on the			
	dating		([CARDI	· ·	all	_	ional	_		on	ľ	on
	[CARDINA		_				suppo				physi	
	-		persons						identif			RPL
	-	[CARDIN		(Organi				indivi				for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso			enanc			fied
		Minimum	_	1	physi	•	RPL,			-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces
			operatio		DINA	-	equip	[CAR		L12]	adeq
			n:		L12]	Minim	ment,	DINAL		days.	uate
			[DECIM		days.	um	and	12]			for
			AL12] t			prelim	rigging	days			[CAR
			([CARDI			inary	warra	of			DINA
			NAL_4]			opera	nt.	endur			L12]
			%)			tion:		ance.			days
						[DECI					of
						MAL1					endur
						2] t					ance.
						([CAR					
						DINAL					
						_4] %)					
			Charact								
	•		eristics								
Fue	1 -		of all								
l			three								
	[STANDAR		seaboat								
Γ.			s: 								
ort		complian 									
	Distillate	ce with	[VESSEL								

4.2 The Turning
.5 [VESSEL2 capabilit
Ma 3] can ies: no rotate The
eu within its [VESSEL
vra own 23] can

that

meets

D_2]

ons.

specificati

[STANDA 16]

[STANDAR allowed. s shall

RD16] is seaboat

use the

same fuel/s as

the

16].

[VESSEL

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
		conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
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4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)

8. Choice shuffle ensemble

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Denken Sie Schritt für Schritt über den Prozess der Anforderungserstellung nach und entwickeln Sie dabei mehrere unterschiedliche Begründungspfade (Reasoning Paths). Demonstrieren Sie den Einsatz der "Choice Shuffle Ensemble"-Technik, indem Sie diese Pfade selektiv mischen und daraus eine einzige, kohärente und qualitativ hochwertige Anforderungsliste erzeugen. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

Ka	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
					ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
											10	11

4.2	The	Loitering	Loiterin	Lingerin
	[VESSEL4]	_	g	g
	Ī .		between	
		-	[CARDI	n
	speed		NAL_1]	[CARDI
	ranging		and	NAL_1]
	0 0	-	[CARDI	and
	[CARDINA	_	- NAL_2]	[CARDI
	- L_1] to	- Aft	kn:	NAL_2]
	- [CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	_
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		knots,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum engine operation		
	_		
	operation		
	loboration.		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
tin	traveling	speed of	
g	independe	[CARDIN	
Ra	ntly for a	AL_1]	
nge	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	
	Sea State	remainin g (BFR).	

		estimatio			•							
		n in alveda a										
		includes										
		a [DECIMA										
		L_1]t										
		tuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2		-	Provisio	The	The	Cons	The	Endur	The	The	The	The
	[VESSEL1						[VESS					[VESS
	2] must be	Maximu		L12] S-	Γ	es:	_		EL12]	_		_
	capable of		Maximu	SSC will	2] S-	_	S-SSC		s-ssc	_		S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	capac	will			SSC
се	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	_	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity /	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	days	levels	sary	ding	ng
	accommo	persons)	days	model	el for	DINAL	operat	for	on the	S&TE	enou	levels
	dating	-	([CARDI	operati	all	_1]	ional	[CAR	OAL	on	gh	on
	[CARDINA	Maximu	NAL_2]	ng	ident	days	suppo	DINAL	for all	the	physi	the
	L_2]	m load:	persons	support	ified	([CAR	rt on	_2]	identif	OAL	cal	RPL
	persons.	[CARDIN)	(Organi	main	DINAL	the	indivi	ied	to	resou	for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso	and		enanc	ate all	to	fied
		Minimum	[CARDI	ance)	physi	ns)	RPL,		е	-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces
			operatio		DINA	-	equip	[CAR		L12]	adeq
			n:		L12]	Minim	ment,	DINAL		days.	uate
			[DECIM		days.	um	and	12]			for
			AL12] t			prelim	rigging	days			[CAR
			([CARDI			inary	warra	of			DINA
			NAL_4]			opera	nt.	endur			L12]
			%)			tion:		ance.			days
						[DECI					of
						MAL1					endur
						2] t					ance.
						([CAR					
						DINAL					
						_4] %)					
4.2		J	Charact								
.4	[VESSEL1	the	eristics								
Fu	6] must	diesel	of all								
		J	three								
Su	[STANDAR		seaboat								
			s:								
		complian									
	Diatillata	oo with	INTEGEL								

Distillate ce with [VESSEL [STANDA 16] that RD16] is seaboat meets [STANDAR allowed. s shall D_2] use the specificati same ons. fuel/s as the [VESSEL 16].

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
		conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
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- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)

9. Combination: few-shot, ToT und ensemble refinement

Sie sind ein Requirements Engineer mit zehn Jahren Berufserfahrung im maritimen Anlagebau. Ihre Aufgabe ist es, die nachfolgend bereitgestellten, mit dem Labeling-Verfahren neutralisierten, Kundenanforderungen für ein maritimes Gefährt in präzise und normkonforme Projektanforderungen zu überführen. Formuliere zu jeder Kundenanforderung mindestens eine Projektanforderung mit mindestens einer Unteranforderung oder mehreren Unteranforderungen. Aus jeder Kundenanforderung sind mindestens eine und maximal elf Projektanforderungen abzuleiten. Achten Sie darauf, dass jede Anforderung eindeutig formuliert ist, den relevanten Standards gemäß VDI 2221 und ISO/IEC/IEEE 29148 entspricht und sich für die technische Umsetzung eignet. Verwenden Sie eine fachgerechte, klare englische Sprache. Falls notwendige Informationen wie Labels, Zeitangaben oder Normen fehlen, behalte die Labels wie [VESSEL109] in der Antwort bei. Berücksichtigen Sie gängige Standards im maritimen Anlagenbau und gängige Praktiken der Anforderungsdokumentation. Machen Sie vollen Gebrauch der Ihnen zur Verfügung stehenden Outputtoken, um die Aufgabe präzise zu erfüllen.

Verwenden Sie dabei einen Tree-of-Thought-Ansatz, bei dem Sie den Denkprozess als verzweigten Baum strukturieren. Jeder Knoten soll eine Teillösung oder Designüberlegung darstellen. Bewerten Sie an jedem Knoten den aktuellen Stand der Anforderungen, ziehen Sie mögliche Alternativen in Betracht und nehmen Sie gegebenenfalls Rücksprünge (Backtracking) vor.

Nutzen Sie anschließend die Methode des Ensemble Refinements, um diese Pfade selektiv zusammenzuführen und in eine einzige, kohärente und qualitativ hochwertige Anforderungsliste zu überführen. Der Prozess ist abgeschlossen, wenn alle Knoten der Pfade abgeglichen sind. Stellen Sie bei Unklarheiten Zwischenfragen, um fehlende Informationen zu klären.

Kat	Kundenanf	Projektan	Projekta	Projekta	Proje	Projek	Projek	Projek	Projek	Projek	Proje	Proje
ego	orderung	forderung	nforderu	nforder	ktanf	tanfor	tanfor	tanfor	tanfor	tanfor	ktanf	ktanf
rie		1	ng 2	ung 3	order	derun	derun	derun	derun	derun	order	order
					ung 4	g 5	g 6	g 7	g 8	g 9	ung	ung
											10	11

4.2	The	Loitering	Loiterin	Lingerin
	[VESSEL4]	_	g	g
	Ī .		between	
		-	[CARDI	n
	speed		NAL_1]	[CARDI
	ranging		and	NAL_1]
	0 0	-	[CARDI	and
	[CARDINA	_	- NAL_2]	[CARDI
	- L_1] to	- Aft	kn:	NAL_2]
	- [CARDINA	operatio	- The	kn:
	L_2] knots	ns can	[VESSEL	_
	(speed	only be	4]	Followi
	through	conducte	maintai	ng
	water) for	d up to	ns	[CARDI
	up to	[CARDIN	loitering	NAL_3]
	[CARDINA	AL_3]	at any	hours
	L_3] hours	knots	speed	of
	(engine	without	ranging	inactivit
	limitation)	equipme	from	y, a
	with a	nt failure.	[CARDI	[CARDI
	minimum		NAL_1]	NAL_4]
	shaft		to	minute
	speed of		[CARDI	engine
	[CARDINA		NAL_2]	burnout
	L_4]		knots,	is
	rotations		with a	require
	per		minimu	d.
	minute.		m shaft	
	After		speed of	
	[CARDINA		[CARDI	
	L_5]		NAL_3]	
	hours, a		rotation	
	[CARDINA		s per	
	L_6]		minute.	
	minute			
	engine			
	"burnout"			
	must be			
	performed			
	at a			

	minimum engine operation		
	operation		
	of		
	[CARDINA		
	L_7]		
	rotations		
	per		
	minute		
	before		
	continuing		
	to loiter.		
4.2	The	The	
.2	[VESSEL8]	distance	
Ор	must be	achievab	
era	capable of	le at a	
tin	traveling	speed of	
g	independe	[CARDIN	
Ra	ntly for a	AL_1]	
nge	minimum	knots in	
	of	sea state	
	[CARDINA	4:	
	L_1]	- The	
	nautical	estimate	
	miles at a	d	
	speed of	distance	
	at least	is no less	
	[CARDINA	than	
	L_2]	[CARDIN	
	knots,	AL_2]	
	even in	nautical	
	conditions	miles	
	up to and	with	
	including	[CARDIN	
	the	AL_3] %	
	highest	burnable	
	level of	fuel	
	Sea State	remainin	
	4 (SS4).	g (BFR).	
		This	
	level of Sea State	fuel remainin g (BFR).	

		estimatio			•							
		n in alveda a										
		includes										
		a [DECIMA										
		L_1]t										
		tuel										
		allowanc										
		e for										
		seaboat										
		operatio										
		ns. The										
		distance										
		calculati										
		on										
		adheres										
		to										
		[STANDA										
		RD8].										
4.2	The	Waste:	Provisio	The	The	Cons	The	Endur	The	The	The	The
.3	[VESSEL1	-	ns:	[VESSE	[VES	umabl	[VESS	ance /	[VESS	[VESS	[VES	[VESS
En	2] must be	Maximu	-	L12] S-	SEL1	es:	EL12]	Stora	EL12]	EL12]	SEL1	EL12]
dur	capable of	m	Maximu	SSC will	2] S-	-	s-ssc	ge	s-ssc	S-	2] S-	S-
an	operating	capacity	m	provide	SSC	Maxi	outlin	сарас	will	SSC	SSC	SSC
се	independe	/ Notes:	capacity	enough	will	mum	es all	ity:	sugge	will	RPL	will
	ntly for at	[CARDIN	/	physica	creat	сарас	neces	-	st	deter	will	sugge
	least	AL_1]	Remark	l	e a	ity /	sary	[CAR	stock	mine	sugg	st
	[CARDINA	days	s:	resourc	spar	Rema	resour	DINAL	holdin	all	est	stock
	L_1] days	([CARDIN	[CARDI	es for	es	rks:	ces	_1]	g	neces	provi	holdi
	while	AL_2]	NAL_1]	spares	mod	[CAR	for	_	levels	_	_	ng
	accommo	persons)	days	model	el for		operat		on the	S&TE	enou	levels
	dating		([CARDI	· ·	all	_	ional	_		on	ľ	on
	[CARDINA		_				suppo				physi	
	_		persons						identif			RPL
	-	[CARDIN		(Organi				indivi				for all
		AL_3] t			tena	_2]	OAL	duals.	maint			identi
				Mainten		perso			enanc			fied
		Minimum 	_	1	physi		RPL,			-		maint
		prelimina	_		cal		such		physic			enan
		ry	-	for	reso	Total	as the		al	opera	oper	ce

		operatio	Minimu	[CARDI	urce	load:	DC	resour	tor	ation	physi
		n:	m	NAL12]	s to	[CAR	warra	ces	tasks.	s for	cal
		[DECIMA	prelimin	days.	last	DINAL	nt,	adequ		[CAR	resou
		L12] t	ary		[CAR	_3] t	safety	ate for		DINA	rces
			operatio		DINA	-	equip	[CAR		L12]	adeq
			n:		L12]	Minim	ment,	DINAL		days.	uate
			[DECIM		days.	um	and	12]			for
			AL12] t			prelim	rigging	days			[CAR
			([CARDI			inary	warra	of			DINA
			NAL_4]			opera	nt.	endur			L12]
			%)			tion:		ance.			days
						[DECI					of
						MAL1					endur
						2] t					ance.
						([CAR					
						DINAL					
						_4] %)					
4.2	The	Running	Charact								
.4	[VESSEL1	the	eristics								
Fu	6] must	diesel	of all								
el	run on	engines	three								
Su	[STANDAR	on fuel	seaboat								
pp	D_1]	oil in	s:								
ort	Naval	complian	·The								
	Diatillata	oo with	NICCCLI	l							

Distillate ce with [VESSEL [STANDA 16] that RD16] is seaboat meets [STANDAR allowed. s shall D_2] use the specificati same ons. fuel/s as the [VESSEL 16].

bili	length in	maneuv
ty	calm	er within
	condition	[CARDI
	s as	NAL23]
	specified	ship
	in	lengths
	F_4.2.5.8	in calm
		conditio
		ns as
		describe
		d in
		F_4.2.5.
		8,
		continge
		nt on
		crew
		proficien
		су.

Kategorie	Kundenanforderung
4.2.3 Endurance	This must also encompass the capability to carry out a [CARDINAL14] day mission, with only brief stops at ports for resupply and minor repairs, with limited External Maintenance services at ports to facilitate Waste/Oil removal and replenishment, including Sparing.
4.3.3 Damage Mitigation	The [VESSEL62] must expel smoke and toxic gases from inside the ship by utilizing installed ventilation systems.
4.5.1.1 Use of Seaboats	The [VESSEL109] must have a minimum of [CARDINAL109] self-righting seaboats within the same POE as the [VESSEL109].

- Kategorie (1 Spalte)
- Kundenanforderung (original, unverändert) (1 Spalte)
- Projektanforderung (klar formuliert, normgerecht, technisch umsetzbar) (1 bis 11 Spalten)