FETURES OF TOMBI



TOMBI Total Medical & Biochemical Information System

No need Internet to run on site
 Manage everything in L.H.
 Designed user friendly interface.
 Multi-langage conaptible.
 Progressing day by day, but need support.

TOMBI does not require an Internet connection.

Risks and Challenges of Internet Use (Cloud Server Use)

- In the event of a major earthquake/wide-area disaster, both fiber-optic lines and cell phone networks will lose Internet access due to line breaks, power disruptions to relay bases, etc. Even if the Internet is connected, responces will be slow due to line congestion, etc.
- Even if the Internet can be connected, responce will be slow due to congestion on the lines.
- During rescue operations overseas, local authorities refuse to connect to overseas servers due to concerns about patient information leaking out of the country.



TOMBI runs on-site without Internet.

- TOMBI runs on a small local server that is brought to the relief site, so there is no need to connect to a cloud server.
- All programs and data are located in the on-site TOMBI server, and each terminal is only accessed and handled within its LAN.
- Response time is fast, and there is zero fear of cyber-attacks or hacking when using the Internet.

TOMBI Server on-site contains everything

Program Master data Medical records order data translations data etc...

× M	edicine I	Master Deta	il <	< 7	<i>))</i>	New	Duplicate		& Englis	h
MID 610		ATC N02BED	ı	GTIN 049870	28123456 JAN	04987028123	1456 YJ 49870	28123456	нот	CK
			Me	dicine Name					Contraind	
Generic Name									di	splay
Paracetamo				GNID	265			Allergy		
Formulat	ion Oral				of the same Generic Nan recetamel 10mg/ml, 1000		GMED C	CHILDREN	1 ~ 1	ок
Effici	icy Analge	zsic			recetamol 500mg tablet		265	Prepnant	1 ~	ок
	init tab				recetarrol 100mg tablet		265			
					racatamol 200mg powder		285 👻	Breast feed	1 .	OK
				Content						
	concentrati		total amount				for body weight			
55	mg	~/		~ 200 mg	Converted	to mg ->	200 mg/Kg			
Generic Name								Dre-prep	ared Choices	Default User
Paracetamo		ablet						Operat		RedCross
Product Name										RedCross K
GenericName							Language	Delive	ary 🗆	PeaceWinds
パラセタモ							Language	Requisitio	an 🗵	
		2			De	5300				
						sayc		_		
		dose	times a day for	days	Administration		Standard Dose			Remarks
International	ADULT	5	3	3	TID ~	1000mg x 3	-4/day		MAX- Aniday	C MAX: 40-60ma/ka/e
arrier faborita	CHILDREN		3	3	TID ~	10-15mg/kg	x 3-4/day		row. Way.	Crock to congright
Domestic	ADULT				~					
DOMESSIC	CHILDREN									
Narcotic Cold Starege					Solvent So	ilution	Dose calculated b	y body weight		
International	iemational			ADULT						
Domestic							@Y 0			
				CHILDREN						
							10 m	ig/ kg		

TOMBI manages drug inventory as well as medical records.

The drug master of TOMBI is the key to fast and safe drug orders.

- TOMBI has 878 pre-registered drug masters for JRCS, IEHK, TESK, ESSENTIAL, NCDK, WHO-EML. Drug masters can be added/edited at any time.
- In addition to the generic name, content, unit and efficacy of the drug, the drug master has data on contraindications for pregnant women, nursing pregnant women, and children, standard dosage, and dosage relative to body weight for automatic calculation of dosage if there are weight restrictions, which can be referenced when prescribing or dispensing drugs or to indicate warnings.

TOMBI has a drug ordering system that manages inventory counts in real time.

- The warehousing procedure of drugs has a quick-warehousing function that allows, for example, the batch warehousing of sets of IEHK's SUPPLEMENTRY.
- The pharmaceutical inventory management encompasses an ordering system, so that when a physician orders a drug, the order is instantly displayed in the pharmacy, and the pharmacist dispenses the appropriate drug from an incoming list of the same drug. The results of the dispensing process are reflected in the drug inventory count.
- Pharmacists can check the number of drugs in stock at any time, and can check the daily consumption of drugs and the total number of drugs in stock at any time.

Stock L		er: Efficacy		×)	Search Show All		D ICEL	N Inventory	Ho	me		
MID	GNID	Efficacy		GenericName tistpl#grmulation Generic Name/Content/Form	Display switch of the last number of entries	In	Out	Stock	Ac	ijustment		cot Cold Stareg
6	5	Cardiovascular	A	Acetylsalicylic acid 100mg tablet		200		200	tab	+	:=	
36	17	Cardiovascular	A	Amlodipine 5mg tablet		800		800	tab	+	:=	
45	19	Antibacterial	А	Amoxicillin 250mg tablet		60		60	tab	+	:=	
75	30	Nervous System	A	Atropine sulfate 0.5mg/mL 0.5mg ampoule	9	200		200	amp	+	:=	
84	32	Antibacterial	A	Azithromycin 250mg tablet		300		300	tab	+	:=	
127	52	Other Therapeutics	С	Calcium gluconate 100mg/mL 1g ampoule	2,	000		2,000	amp	+	:=	
359	154	Diuretic	F	Furosemide 40mg tablet		200		200	tab	+	:=	
465	205	Hormone	L	Levothyroxine 50mcg tablet		200		200	tab	+	:=	
528	232	Antiemetic	М	Metoclopramide 5mg tablet	2,	000		2,000	tab	+	:=	
580	254	Antibacterial	0	Ofloxacin 0.3% eye drops bottle		80		80	btl	+	:=	
611	265	Analgesic	Ρ	Paracetamol 500mg tablet		800	0	800	tab	+	:=	
664	288	Corticosteroid	Ρ	Prednisolone 5mg tablet		200		200	tab	+	:=	
672	293	Anesthetic	Ρ	Propofol 10mg/mL 200mg ampoule		200	1	199	amp	+	:=	
792	352	Tetanus	т	Tetanus toxoid 0.5mL vial		200	1	199	vial	+	:=	
050	386	Applancia	D	Darasatamal 2004 neuros		200		200	cach	- -	-	

TOMBI covers the smallest set for a mobile clinic up to a full-spec field hospital

- Because of TOMBI's advantage of having the server on the local network, TOMBI can handle small groups up to large environments, EH where users can oeprates the system in the same way as in a regular large hospital.
- If you would like to connect to the Internet for sending a statistical data to the headquarter, or for online support or maintenance, TOMBI is able to do so by connecting WAN port of the main router to the satellite Internet, for example.

WiFi Mesh Access Point

> WiFi Mesh Access Point

Pharmacy

2))

W

3

Printer

Emergency Hospital set

full spec

HealthCard Drug prescriptions

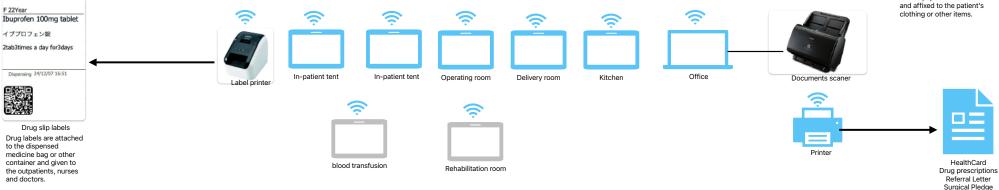
22

prescription

Fuji Hanako

Outpatient

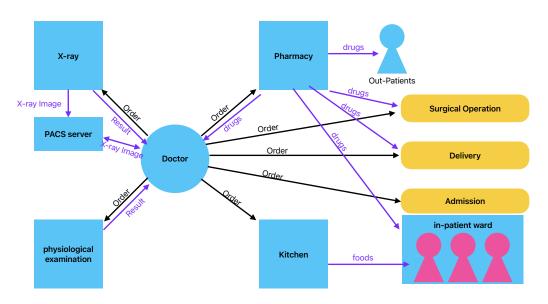
Minimum Set for trial, training Mobile clinic Mobile Router Or set up your computer as a mobile hotspot ッ 3 3 G TOMBI mobile server database sharing ON Pharmacy Mobile Printer Examination and Treatment Reception HealthCard Drug prescriptions Referral Letter R 0 Mobile clinic car1 Mobile clinic car2 Synchronize data bef leparture and after retur Send only statistical data UPS Main Router Remote Support and Maintenance SSD Option TOMBI Server Internet access via satellites Ś 2 6 WiFi Mesh Access Point WiFi Mesh Access Point WiFi Mesh Access Point ווע **W** ē +0 34 2024/12/03 JRCS Reception physiological Receipt slip labels Xray Controller Xray PACS server Xray Outpatients Care1 Outpatients Care2 Label printer examination Receipt slip labels are peeled off the paper on the back and affixed to the patient's



TOMBI begins with an order from a doctor for each section and then responds to it.

- Because TOMBI shares data with staff in each section of the hospital through a local network, orders from doctors

 are the starting point, and results and drugs are returned in response to those orders.
- TOMBI is also linked to a PACS server that can share DICOM images; in the JRCS environment, TOMBI works with Fujifilm x-ray equipment to send order numbers, patient IDs, and imaging instructions to the x-ray equipment, and
 after imaging, the DICOM images are sent to a PACS server.



PACS server X-ray list view

 Akihabara Taro 		2008123456	45/29 y	CR12345678	Osirixannotationssr	CR	58		2008/11/17 16:59	1	2	2023/12/14 16:13
unnamed					不明	CR	1	0	2008/11/17 16:59	1		2023/08/08 15:44
OsiriXAmetationsSR					不明	58	5,004	0	2023/12/14 16:13	•		2023/12/14 16:13
Kameyama Kihatirou	8	0002811626	98/78 y	0274626020040408	Unnamed	CT	2685	¢	2004/04/09 10:25	15	2	2023/09/19 18:19
urmaned					6.1RoutineA8D(Aute)	CT CT	2	0	2004/04/09 10:25	7		2023/00/10 18-19
unnamed					4.1RoutineABD(Auto)	ет	102	0	2004/04/09 10:25			2023/09/19 18:18
> No Name	-	fujitest			Chestsitting	CR	0	0	2023/12/20 15:58	1	1	2023/12/20 16:64
~ Test2	-	23EKE00123		23EKEN1JPN18	L-Thighap	CR	18	0	2023/12/20 16:39	1	1	2023/12/20 18:40
L-ThighAP					不明	CR	1,001	0	2023/12/20 18:39	1		2023/12/20 16:40
v Test2	-	23EKE00123		23EKEN1JPN17	Headap	CR	17	¢	2023/12/20 16:08	1	1	2023/12/20 16:06
HeadAP					74	CR	1,001	0	2023/12/20 18:08	1		2023/12/20 16:06



TOMBI displays various data graphically.

- The hospitalization record displays daily vital data on a graph, as well as medication instructions and execution, and scheduled tests and surgeries for each patient, with details displayed by tapping on the item.
- In delivery, partograms are displayed based on measured data.





Set DateTime for the graph Partgram period Admission period 2024/10/01 07 : 00 -> 2024/10/13 12 : 07 Reset Pan Refresh graph

DateTime	Cervix	Effacement	Position	Station	Circistency (ontractions per 10mins	Anniatic fluid colour	Post_Delivery Lochia Color Volume	FHR	HR	вт	SBP	DBP	Urine	Oxytocin	
2024/10/08 19:35	10	>=80	Ant.	+3	Soft	5	+3		162	100	37.4	148	92	280		
2024/10/08 19:50	10	>=80	Ant.	+3	Soft	5	+3		164	101	37.4	150	93	285		
2024/10/08 20:05	10	>=80	Ant.	+3	Soft	5	+3		166	102	37.4	152	94	290		
2024/10/08 20:20	10	>=80	Ant.	+3	Soft	5	+3		168	103	37.5	154	95	295		
2024/10/08 20:25	10	>=80	Ant.	+3	Soft	5	+3		170	104	37.5	156	96	300		
2024/10/08 20:30	10	>=80	Ant.	+3	Soft	5	Bloody		172	105	37.5	158	97	305		
2024/10/08 20:35	10	>=80	Ant.	+3	Soft	5	Bloody		174	106	37.6	160	98	310		
2024/10/08 20:40	10	>=80	Ant.	+3	Soft	5	Bloody		176	107	37.6	162	99	315		
2024/10/08 20:45	10	>=80	Ant.	+3	Soft	5	Bloody		178	108	37.6	164	100	320		

TOMBI was designed to minimize field staff input.

• TOMBI uses an input method of selecting choices, with as little typing as possible, in consideration of entering data conveniently, quickly, accurately, and sufficiently at the disaster site.

TOMBI is multi-language compatible.

- TOMBI is multi-language compatible, allowing users to select their own language for each terminal.
- TOMBI does not use Internet translation, but uses internal processing to support multiple languages.
- TOMBI currently supports English, French, Spanish, German, Danish, Russian, Ukrainian, Arabic and Japanese.
- TOMBI manages each option with a numerical INDEX. Thus, WHO and other aggregations can be done quickly and accurately.
- If TOMBI is connected to the Internet, such as before deploying on a mission, automatic translation by AI is also available.

Localization editor Choose Language Français	lock	Translation Check	Sheet	alphabetica	l list d'a
Top Recep Md Ope Xp/Lab Ad MCH	I Pha Staff Health G	ard Reha Stastics	button/tab	messages mes	sages2 Drop1 Drop2
Le sexe	Plainte c	lu chef	IDNo.	System	Local
IDNo. System Local	IDNo. System	Local	1	On foot	À pied
1 M M	1 Abdominal pain	Douleur abdominale	<u> </u>	Ambulance	Ambulance
2 F F 🗸	2 Appetite loss	Perte d'appétit		Public transport	Transports
Nouveau/Revisiter	3 Back pain	Mal de dos			Transports
IDNo. System Local	4 Chest pain	Douleur thoracique	4	Bicycle	Bicyclette
1 New Nouveau ^	5 Constipation	Constipation	5	Motorbike	Moto
2 Revisit Revisiter	6 Cough	Toux	6	Car	Voiture
	7 Diarrhea bloody	Diarrhée sanglante	1 <u> </u>		
1 Follow Up Suivi	8 Diarrhea waterly	Diarrhée aqueuse		Hypertension	Hypertension
2 New Nouvelle	9 Dyspnea	Dyspnée	2	DM	DM
zop_outcome	10 Epistaxis	Epistaxis	3	COPD	BPCO
1 Case completed Affaire classée	11 Eye redness	Rougeur des yeux	4	Arrhythmia	Arythmie
2 Further visit Visite	12 Fever	Fièvre	5	IHD	DHI
3 Referral Renvoi	13 Gastric pain	Douleurs gastriques	6	Malignancy	Malignité
4 Admission Admission	14 General malaise	Malaise général	1		
5 Self discharge Autodécharge	15 Headache	Maux de tête		None A	Joun
6 Decease Décès	16 Hip pain	Douleur à la hanche			
0 Morge 0 Morge	17 Itching	Démangeaisons		Under 5Y M	oins de 5
1 Severe 1 Sévère	18 Insomnia	Insomnie			
					us de 10
2 Moderate 2 Modéré			3	Over 10Y	
3 Mild 3 Doux					



TOMBI URL: https://tombi.info/ LunaPacket: https://lunapacket.com/ mail: taniken@lunapacket.com

TOMBI developped by Kenichiro Tani of LunaPacket and Dr.Masaharu Nakade since 2012.

Now TOMBI needs someone's financial support for further progress and improvement.

TOMBI can aggregate data and output the data to PDF, csv, Excel, etc.

TOMBI is capable of various tabulations on a daily, weekly, and monthly basis and is already WHO EMT-MDS compliant.

		EMT-MDS Dail	/ Repo	D	rting Form (Ver 1.0)
1	Organization name:	JRCS			Date of activity (dd/mm/yyy): 2024/10/12
Ī	Team name:	JRCS Emergency Hospital		T	Time of reporting: (Name (2410)
Ī	EMT-Type:	Type2			Location
Ī	Contact person's name:	Nisseki Taro	1		State etc. Japan
1	Phone No.:	+81 90-123-4567	k	E.	City etc. Ankali
Ī	Email:	nisseki@jrc.or.jp	1	T	Vilage etc. Balsam
Ī	Estimated date of depart	ure:	-	1	Facility name: JRCS
			0	i li	Geo-tag latitude 34,779979 longitude 135,051571

	T	N.	imber of patient / Bed count			-				-			
	4	1	Total Number of new consultation	85		35	Γ	Discharge without medical follow-up	19	44	s	Directly related to event	29
~	F	thor	New admission	39		37	1	Discharge with medical follow-up		45	ta	indirectly related to event	9
2	9	2	Live birth	2	the second	38	9	Discharge against medical advice	1	-45	ď	Not related to event	17
5	Γ		Total bed capacity	60	1	32	100	Ploterral		47	S	Vulnerable child	1
ž	F	5	Empty inpatient bed (Non-ICU)	18	8	41	B	Dead on arrival		48	8	Vulnerable adult	
ő	P	m	Empty inpatient bed (ICU)	3	Ï	42		Death within facility		49	201	Sexual Gender Based Violence	
	Ī					43	1	Requiring long term rehabilitation		50	Ľ.	Violence (non-SGBV)	

.9	8	No	,	Age Categories	<1	1-4	5-17	18-64	65-	Total		-	_	Needs and Risks						
à	ia i	1	e de	Male	0	2	1	11	2	16	1 🗖	F	ree	text reporting to EMTCC / MOH on the followi	ng isue	25.				
8	IDS statis	2	ai i	Female non-preg	1	1	0	11	0	13	5	1		Unexpected death	ГС	j				
8	ĕ	3	ž	Female Prognant			0	8	0	8	5	2 4		Notifiable disease		Г				
_								-			5		report	Protection issues		ŗ				
		No		Healt	n Events			5	>=5	Total	1 5	3 4	E.	Critical incident to EMT and/or community		ĵ				
		4		Major head / spine	injury					0				Any other issue requiring immediate reporting		Г				
		5	3	Major torso injury						0	9	6		WASH		Г				
		6	auma	Major extremity inj	ury									Community / suspected over infectious disease		Г				
		7	٩	Moderate injury						0	1 5	8	ALL I	Environmental risk / exposure						
		8		Minor injury						0	8		Community	Shelter / Non food items						
		9		Acute respiratory I	nfection					0			8	Food insecurity						
		10		Acute watery diam				1	3	4	6	1		Logistics / operational support						
		11		Acute bloody diam	hea			0	3	3	6	2	12	Supply		Г				
5		12	0350	Acute jaundice sys	ndrome		1	0	1	1	6	2 3	straints	Human resources		Г				
10		13	disea	Suspected measle	15					0	6			Finance						
Į,	3	14	rhactious	Suspected mening	pitis			0	1	1	6	5		Others		ī				
2		15	nho D	Suspected tetanus	1					0	1			Detailed comment for (No.)	-	-				
fealth Events and Procedures	MDS statistics	16	1	Acute flaccid para	lysis					0	1 🗖	_	_							
ş	ÿ	17		Acute haemonhag	lic fever					0	11									
цщ,		18		Fever of unknown		1	2	3	11											
a a		19									1									
1		19 20 21	Additional								1 🗆	_		Detailed comment for (No.)		_				
		21	5								1 –	-	_	Detailed comment for (No.)						
										1										
		23	ģ	Surgical emergeni	ty (Non-tra	iuma)	1 1	1 4 5												
		24	Ē	Surgical emergene Medical emergene	y (Non-infe	ectious)				0	11									
		25		Skin disease			1	0	1	1	1									
		26	disease	Acute mental heat	th problem			0	2	2	1 🗆			Detailed comment for (No.)						
		27	5	Obstetric complice	tions		1	0	2	2	1 F									
		28	10	Severe Acute Mak	nutrition (S	(MA)				0	1									
		29	8	Other diagnosis, n		d above				0	1									
					edure		-	5	>=5	Total										
		30		Major procedure (excluding P	MD532)		1	7	8	1 -	-	_	Detailed comment for (No.)						
		31		Limb amputation	excluding o	sigits			1	1	1 -	_		Detailed continuity on (rec.)		-				
Γ		32	ocedure	Minor surgical pro	oedure			1	5	6	11									
Г		33	roce	Normal Vaginal De	slvery (NV	1D)			2	2	1									
Γ		34	đ.	Caesarean section	1 I						1									
Г		35		Obstetrics others							11									

Weekly Total Show Al Show only MID Generic Name/Content/Form 10/5 10/13 10/20 10/27 11/3 11/10 11/17 11/24 12/1 12/8 12/15 12/22 607 Paracetamol 10mg/mL 500mg vial 54 Ampicilin 1000mg vial 346 Destrose 5785 20ml amongle 748 Sodium chloride 0.9% 100ml, bottle 37 19 Fentaryl 0. (mg. 12m), ampoule Paracetanol 120mg/5ml, 500mL oral 70 Chlopheniramine & rg tablet Anoxiallin 100mg/g powder 30 Anoricilin 250mg capsule 147 Cetriaxone 1000mg vial 363 Gentamicin 10mg/mL 20mg vial 358 Furosemide 20mg/5mL oral solution 747 Sadum chloride 0.9% 1000ml, bottle 750 Sofura chloride (19% 250m) hottle 404 Ibuprofen 100mg tablet 157 Chlopheniramine 10mg/mL 10mg 137 Cefazolin 1000mg vial 2 2 350 Gelatin modified 4% solution for 12 792 Tetanus toxold 0.5mL vial 804 Tramadol 50mg/ml. 100mg ampoule 11 Descentered Chilese tablet

Weekly drug consumption

Why has TOMBI used FileMaker as its development base?

- When TOMBI was first developed, there were no fixed specifications or blueprints, and we started with an extremely low budget and Dr. Nakade of Osaka Red Cross Hospital. Since then, we have repeatedly scrapped and built for the past 12 years.
- The only way to develop a platform under such development conditions was with FileMaker, which can be developed in low code.
- Since FileMaker's core security and its updates are guaranteed by Claris, a wholly owned Apple company, we can concentrate only on the development of the program, which greatly reduces the development cost and the time and cost of the security part after development.
- While TOMBI is still improving and advancing day by day, the cost of coding this from the language level would be enormous.
- We have yet to find another conceivable way to develop software such as this, for which demand is
 very limited.