IBM WATSON CHATBOT POC

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for Hallberg Rassy Club with Realtime Data from HCL Domino

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LHCOM

To show a ready POC for an IBM Watson project, which covers search of data in different ways!

The POC is made for the Hallberg Rassy Club: HR-Club.dk

which is an online community for owners of the exlusive, Swedish boats Hallberg Rassy.

Hallberg-Rassy Club

Home Register V Boat register V Tips & Tricks V Links V Flags Contact Q

Now we are **835** Hallberg Rassy boats registered in the database, and we hope that many more Hallberg Rassy owners will join us, to give each other good advices, new ideas, and share all their experiences. Later we will get good discounts from different vendors, for all registered users, and we will make events to meet and network.





The club has different types of data which users can search in by using the chatbot.



- Purely a FAQ
- Data is within the Watson bot itself.
- Generated in the JSON from HCL Domino, and imported to IBM Cloud or manually via UI.
- Static data.
- The simplest solution.



- Search in a database for
 2 simple record typs:
 BoatTypes and MemberTypes.
- Data is in the Domino database, it's searched by Watson in Domino through a webhook.
- Demands a Webhook is economically viable due to saving the Discovery.



- Search in the Discovery database for complex answers on Q&A.
- Data are automatically pushed from the Domino database to Discovery every 5th minute.
- The search is done in Discovery by Watson via a webhook.

Data and **Watson** functionality are being created in a HCL Domino Data base and uploaded manually to IBM Cloud





Search in extern data directly from a **Watson Chatbot**

 Halberg Record Chattor
 Image: Chattor

 Which HR 342 is in langi
 Image: Chattor

 Which HR 342 is in langi
 Image: Chattor

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Webhook Integration

Hallberg-Rassy Club
Hallberg-Rassy Club

Relocation.	Busileite	Love Save	Individual
24.	240	Epine Pederaer/UM Stefane	tenteronde
24.	313	Forcedure	teneronde
24.	401	HOLD JACOB -	teneronde
24.	324	Jacob Brail	tenteronde
24.	151	Jin Debre	teneronde
24.	151	Jin Defen	teneronde
24.	2	Jin Defen	teneronde
24.	10	Jin Defen	teneronde
24.	304	Jin Defen	teneronde
24.	0.04	Jim Daferte	teneronde
24.	378	Jim Dathere	teneronde
24.	678	Restautors	teneronde
24.	631	Neumann Jim Sphrei / T	teneronde
24.	324	Nonvieneeus 200 Saltere I-S	tenteronde
24.	618	15g Epimetrone	tenteronde
24.	319	Thomas Grand	tenteronde
24.	201	Transa Kile	teneronde
24.	222	Benad Not Oberhenning	tenaronde

Link to a auto-generated webpage on Domino



Domino

Data base

JSON data



Domino database

HR-Club data

	1 New member						
	Boat type 🛇	Boat name \land	Coun 🗘	Hull no 🗘	Owner 🗘	Harbour 🔿	Built year \land
	HR 38	Happy Hour	NL	127	Van Kasteel & Westera	Cruising	1981
Members	HR 31 - Monsun	Joshua	NL	423	Vd veen	Harlingen	1977
BoatTypes	HR 49	Lotta	NO	041	Vetaas Åge	Bergen	1986
Harbours	HR 312 Mk I	Lærke	DK	287	Vibeke og Lars Jeppesen	Øer maritime	1984

🦉 HR-CI	dub				
Owner name(s):	Villy Jespersen				
Owners email:	Villy_Ophelia_696@HR-Club.dk				
Nationality:	DK				
Boat type:	HR 31 - Monsun 💌				
Boat name:	Ophelia				
Link (Boat):					
Built Year:	1979				
Hull no.:	696				
Harbour:	Nykøbing Mors				

Domino database

HR-Club data

	Bådtype 🛇	AirDraft 🗠	Build years \wedge	Build 🗠	Designer 🔿
	HR 24 - Misil II	9.85	1972 - 1977	596	Olle Enderlein
	HR 26	12.0	1978 - 1985	469	Olle Enderlein
	HR 29	13.05	1982 - 1994	571	Olle Enderlein / Christoph Rassy
Members	HR 31 - Monsun	12.7	1974 - 1982	904	Olle Enderlein
▶BoatTypes	HR 31 Mk I	14.80	1992 - 2009	306	German Frers
Harbours	HR 31 Mk II	14.8	1992 - 2009	50	German Frers

@ HR-Club Bådtype

Sort order:	3
Bådtype:	HR 26 (Watson: HR_26)
Designer:	Olle Enderlein
Built year from:	1978
Built year to:	1985
Build count:	469
Hull lenght:	7.95 meter
Length waterline:	6.70 meter
Beam (width):	2.68 meter
Draft (dybgang):	1.40 meter
Displacement:	2500 kg
Keel weight:	1100 kg
Air draft:	12.0 meter
Main sail:	30.2 m2
Genoa:	7.0 m2
Berths:	4
Headroom saloon:	1.78 cm.
Engine:	Volvo Penta MD 5A
Power:	7.5 HP / 5.5 kW
Cylinders:	1

Domino database

HR-Club data

		To JSON		
		Title	Question	Answer
	Members	35kg or 45kg Ultra anchor on a HR 46	Should I have a 35kg or 45kg Ultra anchor on a HR 46?	A 45kg Ultra anchor is the best choice if you want peace of mind.
	BoatTypes	Adding a fresh water fitting on the deck	We would like to have the ability to have the fresh water shower or hose on	One option: Our HR 40 has a deck wash connection at the bow. In think it is fitted on deck somewhere at the ba
	Harbours	Amount of batteries for a HR 34.	How many batteries do I need for my HR 34 ?	You need 3 batteries for a HR 34! One pair for the bowthruster, one for the engine start and one for normal use c
		Anode or ground plate?	Is this an anode or a ground plate? It is situated near the negative concentr	ε These are bronze electrical grounding plates (non-eroding). On our boat I have 2. One is ground for the VHF, b
	HR-Club Q&A Title	Aquadrive on a HR43 with Volvo D2-75 engine and gori prop	Can you install an Aquadrive on a HR43 with a Volvo D2-75 engine?	No, there is not enough space for it. Other solutions are Sigmadrive and Centaflex.
⇒H	HR-Club Q&A Type	Aquasignal fog horn muffled	Last season our Aquasignal system's horn suddenly went very quiet, not d	ε I measured the volts at the base of the mast wire bus where all the mast cables come into the boat. Turn the hc
	HR-Club Q&A Item	Attaching various pad eyes and hardware along the cap rail	How do I attach various pad eyes and hardware along the cap rail? Do I dr	i It depends on type of force these pad eyes will have. If horizontal force like a rope clutch for the furling drum as
	HR-Club Q&A Action	Battery control tool	Which battery control unit would you recommend me to mount?	I like Victron equipment very much. I use the Victron BMV 712 battery monitors. They are easy to install and p
	HR-Club Q&A Created	Binacle Switches	Should the binacle swiches be IN as red and OUT as green?	The factory standard delivered by Hallberg-Rassy is IN as green and OUT as red.
	HR-Club Q&A Unid	Blocked Deck Drains	The port side deck drains on my HR36 Mk2 have suddenly blocked. All thr	«Probably deck debris have accumulated at the bottom of the drain hose just above the seacock flange. Do the

Ø HR-Club Q&A

HR Type:	All
HR Item:	Anodes
HR Action:	Maintance
Title:	Anode or ground plate?
Question:	Is this an anode or a ground plate? It is situated near the negative concentration under the nav station. Should this be changed and where to find it? See the two attached pictures.
Answer:	These are bronze electrical grounding plates (non-eroding). On our boat I have 2. One is ground for the VHF, but I can't remember what the other one is ground for. Clean it with a wire brush and it should be OK. Don't paint it. If you want new, HR-Parts supply them.

Beginner

Search one specific boat-type data

- Displacement
- Aircraft
- Built years
- Designer
- Amount of boats built

Advanced Boats

Search in boat data

• Who made which boats types?

Advanced Members

Search in members data

- Boats in which harbours
- Boats in which countries
- Owners of specific HR-types
- Owner of a specific boat-name
- Owners of boats built in a specific year

Expert

Search technical questions in Q&A

- Maintenance
- Information
- Reparation
- Sailing
- Transportation
- Trimming

Beginner

Search one specific boat-type data

- Displacement of a Rasmus?
- Who designed the HR 34?
- What engine does the HR 54 have?
- How heavy is a HR 29?

Advanced Members

Search in members data

- Which boats are in Germany?
- Which boats are in Kolding?
- Which boats were built in 2008?
- Who has a boat called Ida?



Search in boat data

• Which boats did Frers design?



Search technical questions in Q&A

- Anyone had the windscreen join to the hinge fail?
- Has anybody fitted a deck wash pump?
- What paint is best for painting my deck?

RELEASE THE POWER