## **HWDB APIs**

- Web form
- API on iPad
- What (other) interfaces do you need?

**YOU** define

### **WEB Form**

#### - WEB forms are provided by HWDBI.

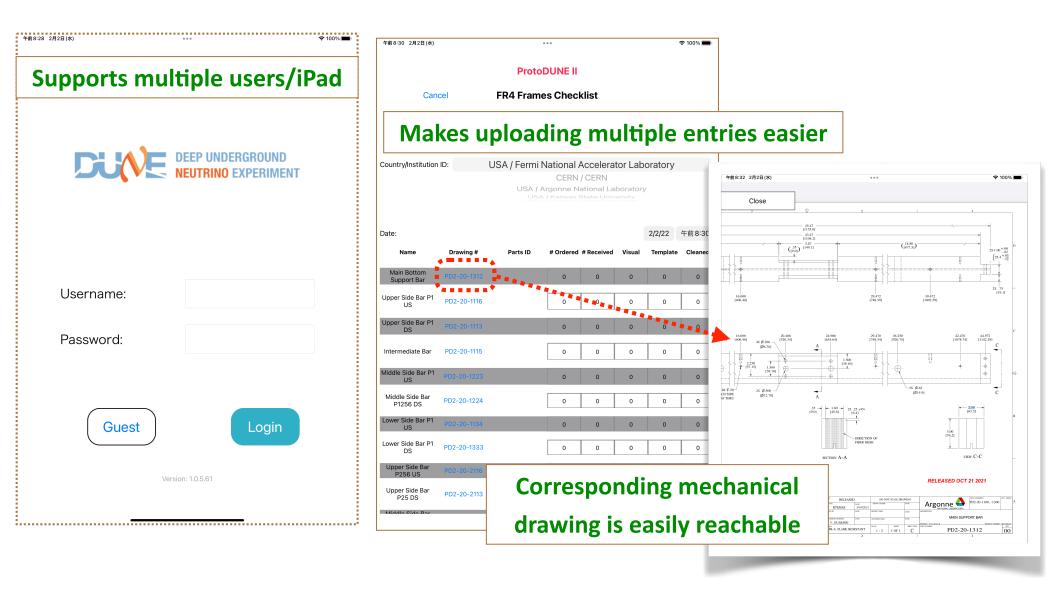
SPECS LOG I	MAGES		
Component Type	MOBO01		
Comments	MOBO type	: 1	
Category	generic		
Managed by	× new-board	i) × tester	
Manufacturers	× Daugherty × Stiedemar	, Beahan and O'Hara) ( × Huel Inc) ( × Reichel Group) n-Hill	User(s) ca
Created	2021-02-0	1 17:50:56	the
Created by	Vladimir Po	dstavkov	
Specifications	Version	2	
	Created	2020-07-09 11:12:44-05:00	
	Created by	Stephen White	
form	Datasheet	Gain: - v0 - v1 Size: null Type: null Array: []	
	s0: FEB001 s1: FEB001 s2: FEB001 s3: FEB001 s4: FEB001 s5: FEB001 s6: FEB001 s7: FEB001 s8: FEB001		

		TRUCTURE		042-11ea-9345-0c	TEST LOG	IMAGES			
	External ID	b78e4af	a-a042	2-11ea-9345-0cc47a33	1e14				
	Serial Number	SN0cc47a331e14							
	Manufacturer	Daughert	y, Beah	an and O'Hara			•		
	Batch ID	1237					•		
	Created	2020-05-27 12:52:23							
	Created by	Vladimir Podstavkov N/A							
	Contained in								
	Component Type	MOBO01					•		
	Specifications						—		
		Gain	v0			•	]		
		Size	3x4						
	:	Туре							
( <mark>s)</mark> can th the form		Array	[5.9,	6.7, 3.8, 9.1]					
the form		Vhune	[	L		1			
		Xtype	x-pcl	D					
		Version Voltage	12V						
	Sub-components						_		
		S0:FEB0	01	dfcd52dc-4f6a-11ea-97b0	-e35629e15589	▼ <i>∂</i>			
		S1:FEB0	)1	dfcd4d82-4f6a-11ea-97b0	)-7fbcb8aa5500	• @			
		S2:FEB0	01			*			
		S3:FEB0	01			Ŧ			
		S4:FEB00	01			•			
		S5:FEB0	01			•			
		S6:FEB00	01			•			
		S7:FEB0	01			•			

S8:FEB001

-

#### - MN group is developing an iPad app to do just that.



€ 100%

Print

NOT OK or OK

×

×

Х

×

Х

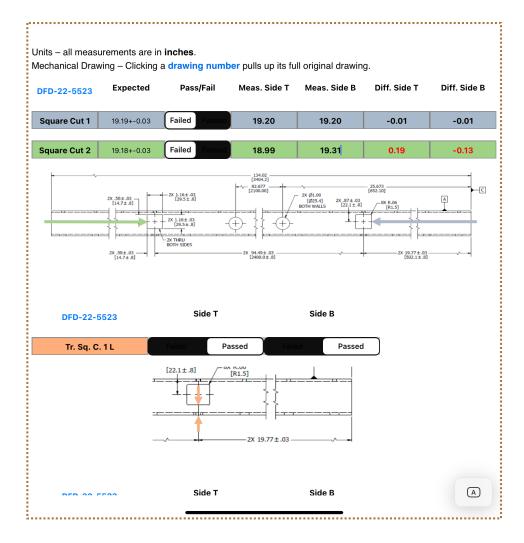
Х

Х

×

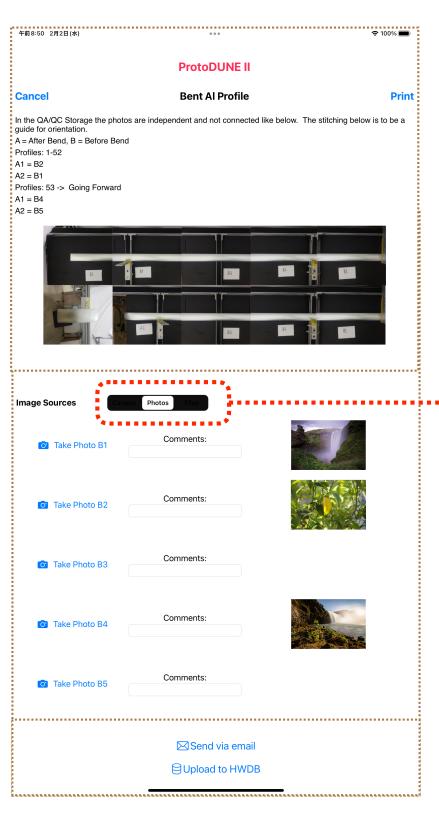
2/2/22 午前8:40

#### Mobile device - 2 Can provide step-by-step 午前8:37 2月2日(水) assembly procedure Close the 6th CPA Unit DFD-20-G100 (DFD-20- $\times$ H100) (top Unit Panel) using 1/2" holes in 20-H100 the Top Main Support Bar. 14. Move to the tower CPA assembly frame and lower onto the 5th Unit. sliding the Horizontal FSS pieces over the 5th Unit Intermediate Bar. along with links to the 15. Drive 0.25" diameter X 2.5" lor dowel pins into frames and bolt to with 1/4 - 20 X 2.25'' SS socket he on each side of the CPA Units at th corresponding intersection. 16. Lock the Unit into the pace on the pictures and drawings tower frame by closing the safety l using the safety pins. 17. Remove the lifting fixtures from the Unit. 午前8:40 2月2日(水) 18. At the Unit intersection, attach 4 Brass **CPA Completed Panel** T-Straps DFD-20-A111 (2 each side of Cance 20-A111 Х Checklist CPA) using 3 - #8-32 X 1/2" screws with a single Belleville washer each. Barcode Date: 19. Route the 4 jumper wires DFD-20-A113 from the upper Unit through the Name horizontal frame holes to the lower Unit at the Unit intersection and attach using nge Block to FSS co #10-24 X 1/2" screws with Belleville 20-A113 Х washer, 2 flat washers and a #10-32 nut. **HV Bus** Order of connection should be: screw head - ring lug - flat washer - RP - flat **HV Bus connection** washer - nut (flat washers in direct contact with RP). FSS connection 20. (Place holder) Hang the Panel by its hanger bar on its trolley and remove from the assembly frame. Flatne 21. Fill in the "CPA Completed Panel Checklist Checklist". Dust and link(s) to a checklist 22. Repeat steps 1-21 for the 2nd CPA × Other Comments: Panel in the crate. 🕆 Upload (form to be uploaded to HWDB) \_\_\_\_\_



#### can also take in the Excel-sheet style

	measuren	nents are i	n <b>mm</b> .							
	A Dia.	B Dia.	C Dia.	D Dia.	AB Dis.	A to Edge 1	B to Edge 1	C to Edge 1	D to Edge 1	
Meas. 1	11.20	20.34								
Meas. 2	11.16									
Meas. 3	11.32									
Meas. 4										
		I			I	I		I		
Meas. 5										
Ave.	11.22666	20.34								
S.D.	0.04807	0.0								
Expected	11.176	20	44.45	11.176	22.512	24.498	20.086	79.375		
Tolerance	0.254	0.254	0.254	0.254	0.254	0.127	0.127	0.127		
Diff.	0.05067	0.34								
NGE I		$\neq$	-EDGE 3	E	-EDGE 2		\		/	-1 _
XGE I			-EDGE 3 G 	C C F	-EDGE 2	8 ° 9 °	•	0 0	· · ·	-L
XGE I	A to Edge 4	B to Edge 4	-I -G	Q F	0-	O to Edge 1	E Dia.	• • • • • • • • • • • • • • • • • • •	G Dia.	H Dla
Meas. 1	A to Edge 4	B to Edge 4	-I -G	Q F	0-	O to Edge 1	e Dia.	• • • • • • • • • • • • • • • • • • •	o d O G Dia.	H Dla
Meas. 1	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	e Dia.	• • • • • • • • • • • • • • • • • • •	G Dia.	H Dia
Meas. 1 Meas. 2	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	• } } .	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	H Dla
	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	• } }	• • • • • • • • • • • • • • • • • • •	G Dia.	H Dia
Meas. 1 Meas. 2 Meas. 3	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	• } } / · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •	G Dia.	H Dia
Meas. 1 Meas. 2 Meas. 3 Meas. 4 Meas. 5	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	• } }	• • • • • • • • • • • • • • • • • • •	G Dia.	H Dia
Meas. 1 Meas. 2 Meas. 3 Meas. 4	A to Edge 4	B to Edge 4	-I -G	Q F	0-	0 to Edge 1	• } } / · · · · · · · · · · · · · · · · ·	0 0 F Dia.	G Dia.	H Dia



helps uploading multiple image files

- One could use different sources
  - for images to be uploaded
- Camera (iPad's camera)
- Photos (images stored in Photos app)
- Files (provides direct access to other apps
  - on iPad, such as iClouds and MS OneDrive.

Cancel M			1RB	Upc	late
	Number of MRBs:		200		
Maximum Acceptable Deviation (%):			5		
Include MR	Bs with Failed Test	s on Chart:	No		Yes
MRB Type	# Received	Visual	# Passed	Mean Resistance	Standard Deviation
Blue	80	69	69	4.807	0.812
Yellow	70	68	68	4.998	0.379
Black	50	39	39	4.941	0.582
I	MRB Type To Display		Print	All	
Total Entrie	s Listed on Chart:1		- inc	Generate Cha	art 24
		Maan			24
		Mean <sub>2:</sub> 21.0	17.0		20
	12	21.0		11.0	20 16 12 8

#### can perform a quick analysis on the fly based on the info stored in HWDB

## (non) Mobile device - 6

CPAProductionChecklists							
Cancel <b>FSS Checklist</b>							
Date: 2/ 2/2022, 8:58 A Name	Drawing #	Parts ID	# Ordered	# Received	Visual, Cleaned	Template Check	Surface Resistance
Top/Bottom Horizontal		D06010002-0001	0	o	o	0	0
Horizontal	DFD-20-A102	D06010002-0002	0	0	0		0
Top/Bott Int. Vert. L	DFD-20-A103	D06010002-0003	0	o	o	o	o
Top/Bott Int. Vert. R	DFD-20-A104	D06010002-0004	0	o	0		0
Ext. Upper L	DFD-20-A105	D06010002-0005	0	0	0	0	0
Ext. Upper R	DFD-20-A106	D06010002-0006	0	0	0		0
Middle Ext. Vert. L		D06010002-0007	0	0	0	0	0
Middle Ext. Vert. R	DFD-20-A108	D06010002-0008	0	0	0		0
Middle Int. L		D06010002-0009	0	0	0	0	o
Middle Int. R	DFD-20-A110	D06010002-000A	0	0	0		0
Top/Bottom Horizontal L		D06010002-000B	0	0	0	0	0
Lower Int. L	DFD-20-A301	D06010002-000C	0	0	0		0
Lower Int. R	DFD-20-A302	D06010002-000D	0	o	0	0	0
Ext. Lower L	DFD-20-A303	D06010002-000E	0	o	0		0
Ext. Lower R	DFD-20-A304	D06010002-000F	0	0	0	0	0
Top/Bottom Horizontal	DFD-20-B101	D06010002-0010	0	0	0	0	0
Comment:							
		பு பு	pload				
Upload to Database							

#### (via Catalyst)

- It can also run on macOS

(both M1 and Intel), besides iOS.

Maybe useful for ones need larger screen/keyboard (like me)?

HVS (06)

CPA (01)

FR4 Frames: Side Middle Bar (RH) : 20-A501 (0006)

0002

A

			十夜1.21 月24日(月)			÷ 100% 🔳	
Cancel	PartsID Decodir	ng	Cancel	Pa	rtsID		
		ID scheme here is	old.				
Enter Part	sID D06010002000	lgnore it!	ct 1st 3 colum	ns: DUNE	HVS	CPA FC	
						EW	
Project	D	DUNE (D)			s: Upper Side Bar (RH) : es: Intermediate Bar : 2		
System ID	HVS (06)		Select Item Type:	FR4 Frames:	FR4 Frames: Side Middle Bar (LH) : 20-A502 FR4 Frames: Side Middle Bar (RH) : 20-A500 FR4 Frames: Lower Side Bar (LH) : 20-A602		
Subsystem ID	C	CPA (01)		FR4 Frame	s: Lower Side Bar (EF)	20-A604	
Item Type ID	FR4 Frames: Upper Sid	de Bar (LH) : 20-A404 (000	Item Number (DE	2	(≤ 65535)		
Item Number	2	2 (0002)	Generated ID	D060100060002			
			Gener	ate Barcode			
			Generate QRcode				
			Project		DUNE (D)		

System ID

Subsystem ID

Item Type ID Item Number

- We could develop an iPhone app that allows to:
  - scan bar/QC codes
  - decode them and print its info in human-readable form
  - show the corresponding contents on its browser (or within its app)

NOT YET, but if requested...

# Are there other Interfaces and functionalities that are needed and/or help the client side interface easier?

- Parse spreadsheets (csv) and directly upload to HWDB?
  ...?
- Devices other than Apple?
  - A python-based application (runs on any PC)?
  - Android?