

Product Life cycle management for innovative Seed companies



Versioning:

Version	Date	Author	Main changes
1.0	20/09/2024	Maryam	First published version

Versioning:	2
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Introduction

Seedsoft is designed to assist you in efficiently managing portfolio of Seeds Varieties their Life Cycle and the corresponding trials.

The system has six main interconnected modules:

- <u>Varieties</u>
- <u>Catalogues</u>
- Trials
- Observations
- Inventory
- Organizations

Throughout the next pages, each module will be explained in detail

Navigation of the SeedSoft system

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itup ^	SCOOAA02	SCO0AA02	Open Pollinated	GREEN_GLOBE	Compositae	ARTICHOKE	Green	PolleHub	Cash	AUTUMN, COOL, C
Access policy	SLIOAA01	SLI0AA01	Open Pollinated	ARGENTEUIL	Liliaceae	ASPARAGUS		PolleHub	Cash	
Geographies Crops	SLIOAA02	SLIDAA02	Open Pollinated	MARY_WASHINGTON	Liliaceae	ASPARAGUS		PolleHub	Cash	
Currencies	SLA0AA01	SLA0AA01	Open Pollinated	Ball_/_Greek	Labiatae	BASIL		PolleHub	Cash	
Custom fields	SLA0AA02	SLA0AA02	Open Pollinated	Fine_leaved	Labiatae	BASIL		PolleHub	Cash	
Market	SLA0AA03	SLA0AA03	Open Pollinated	Genovese	Labiatae	BASIL		PolleHub	Cash	
Warehouses	SLA0AA04	SLA0AA04	Open Pollinated	Lettuce_leaf	Labiatae	BASIL		PolleHub	Cash	
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- 1. By clicking on the menu button, you can **expand or collapse** the menu section.
- 2. Select language and access profile sections/ settings through these buttons. Your logo is also displayed on the top right corner.
- By toggling this switch, you can change the status of the table.
 When you hover over the switch, a small tooltip will appear, explaining the function of the switch.
- 4. Using the buttons at the top of the list, you can manage and control your data grid. Filter, arrange columns, define density, and export the selected varieties. Any changes made at this level can be saved under your desired title using "Save Current View," which is next stored in "Custom View" next to it for your future access to the same customized list. These changes could include applying filters, expanding lists, using column menu items, changing the order or size of the columns and more.

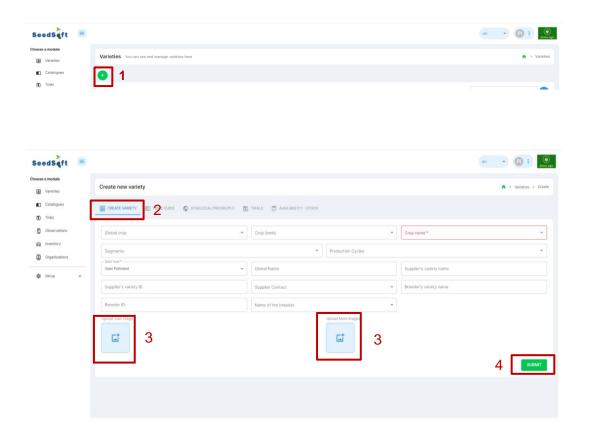
- 5. There is an advanced search field at the top of each list where you can search and view any item that you need from the list. This is a full-text search considering everything stored in the database for a particular module.
- 6. In each data grid, you'll have access to various properties for each column. Some are fixed in every table, but the admin can also add custom fields and decide whether they should be displayed in the tables or not.
- 7. By clicking on the menu icon next to each column title, you can sort, pin, filter, set aggregation, group, hide/show, and manage columns. The menu for numerical columns is located on the left side of the column title.
- **8.** The blue color indicates a link, and by clicking on it, the relevant details will be displayed.
- **9.** At the bottom right, you can access pagination and easily navigate through pages.

Varieties Module

This module provides the space to store, maintain, and report on all varietal information.

- 1. On the Varieties page, click on "Add Variety."
- 2. On this page, enter/select details of your variety, such as crop name, crop family, global crop, etc. (Fields highlighted in red are mandatory).
- 3. You can then upload images
- 4. Finally submit the variety information.

Now your variety is saved, and you can see it in the varieties list.



By clicking on a variety name, a page will open that includes five sections:

- Description
- Price guide
- GTM/Local pricing/PLC
- Trials
- Observations (soon)
- Availability stock

Description:

- A. The first section provides an overview of the variety.
- B. The second part contains custom fields fully customizable by SeedSoft client.
- C. The last section includes traits that are crop specific. Typical example could be a Watermelon trait called: 'Seedless?' with the options: 'seeded, seedless, edible seeds'.

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oose a module	BEANS BUSH/DWARF -	SLE0AA81			A → Varieties → Details
Catalogues		e 🕤 GTM/LOCAL PRICING/PLC 🛐 TRU	ALS 🔁 AVAILABILITY - STOCK		
Constitutions					_
Contraction Inventory		Supplier ID Barbaros	Variety global name SLEOAA81	Out reference 337,247	A
Organizations	113-	Supplier Name	Crop family Leguminosae	337,247 Crop BEANS BUSH/DWARF	<
t∰t Setup 🖌 ❤		Segment French - green podded - stringless	Production Cycle SECOND EARLY	Production life cycle log set Screening at 21/05/2023 ()	
		Seed Type Open Pollinated	Contact Vegetate	Breeder's variety ID	
		Breeder's variety name -	Name of the breeder		
	Use in demo	ERP #		Stocking strategy	
	Yes, use in demo	-		Produced to order	PROCESSING
	ecology OPEN FIELD	color MEDIUM GREEN		technical_description Mid Early variety, suitable for	unique_sating_points (USP) Commercial positioning: For ç
	competition =				

Organizations		-			
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	•				
C	POD COLOUR POD CROSS SECTION	Medium green 1.6 to 1.7cm			,
>	SEED COLOUR POD LENGTH	White 21 - 22 cm			i i

By clicking the pen button on the right, you can edit details (values) of that section.

Price Guide:

This section supports the collection of high-level pricing information per variety.

Using the add and edit buttons, you can add a new price guide or edit existing ones.

a module Varieties	TOMATO DETERMINATE -	Canner - SSO0AB58						📦 > Varieties > 1
Catalogues Trials		STM/LOCAL PRICING/PLC	ials 🔀 availabi	LITY - STOCK				
Observations Inventory Organizations	Add new priv	Ce guide Bulk non-treated			Referen	ce currency	8	Edit price guide
		Supplier	Ex-works	Currency CNY	Amount USD 254.00		Margin	
Setup 🗸		Additional cost	EX HOUND		20.00	2.77		
		costs			274.00	37.91	2.65 %	
		Wholeseller	Ex-works	EUR	37.00	38.92	8.11 %	
		Distributor	Ex-works	EUR	40.00	42.07	30.72 %	
		Recommended farms	jate	USD	55.00	55.00		

GTM/Local Pricing/PLC

This section is used to store and manage the 'geographical' PLC. This means that instead of having one PLC for the whole world you can indicate the life cycle much in more detail. For instance a product is already commercial globally, but still in Development in France.

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Trials Description Description Image: state of the	Choose a module S Varieties	TOMATO DETERMINATE - Canne	r - SSOOAB58			A → Varieties → Details
+ ADD RECORD + ADD RECORD © inventory © organizations Entropia Hierarchy Local PLC date Remarks Actions © organizations Ethiopia 01/05/2024 Cash Image: Cash			M/LOCAL PRICING/PLC	🛱 AVAILABILITY - STOCI	к	
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					Remarks	
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Trial

In this section, you can view trials of that specific variety conducted in different geographies, along with all other trial properties (please refer to the <u>trial module section</u> for details).

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eose a module	🗆 BEA	NS BUSH/DWARF - S	SLEOAA81				• • •	/arioties > Details
Catalogues	DESCR	IPTION E PRICE GUIDE	GTM/LOCAL PRICINC	VPLC TRIALS	AVAILABILITY - STOCK			
Observations	Trials of t	his variety						
M Inventory							Search field	9
Organizations	III COLUMNS		A EXPORT CUSTOM VIEW	1 SAVE CURRENT VIEW +				
tijt Satup 🔷	Trial ID	Geography	Date	Trial type	Trial status	External coordinator Volume of s Unit	Variety result	Variety
Q Access policy	256	Mauritius	13/09/2022	SCREENING	PLANNED	Proseed-Yusuf Balabas		
Geographies	92	Mauritius	30/11/2021	SCREENING	PLANNED	Proseed-Matthias David		
 Crops Currencies 								
87 Custom fields								
Market								
Warehouses								

Availability stock

This section gives information on future availability of the sample seeds at breeder/supplier level as well as current sample seeds stock levels in various warehouses.

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Choose a module	D TOMATO DETERMINAT	E - Canner - SSO0AB58					A > Varieties > Details
Catalogues	DESCRIPTION	DE STM/LOCAL PRICING/PLC		CK	↓ Edit av	ailability details	
Diservations	Seeds availability	Date of availability update	Expected change of status	Romañs	Availability -		1.5 gr
Organizations	No production plan	22/05/2024	22/05/2024	menuna.	Warehouse M		6 gr
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Catalogue Module

In this section, create a catalogue of varieties (to present to potential clients or for other purposes). You'll also have the option to download the catalogue in various formats and manage files.

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a module Varieties	Catalogues Here is	a list of your catalogues			Click to view a	ad I		A > Cata
Catalogues	Add r	new catalogue			download files		Delete catalo	gue
Triats	Trante	Title	Updated on	Preferred date	Description	Files	Owner	Actions
Observations	for Wachiroon	Click to opp the	catalogue details	26/08/2024			Maciej Bednarek	0
inventory	for Zoltan		catalogue detalis	01/08/2024		0	Maciej Bednarek	0
Droanizations	for Houssein		24/07/2024	24/07/2024		0	Maciej Bednarek	0
	HS product		09/07/2024	09/07/2024		0	Chia Tai	0
ietup ^	For Chia Tai		02/07/2024	02/07/2024		0	Maciej Bednarek	0
Access policy	For Novisem		28/06/2024	28/06/2024		0	Maciej Bednarek	0
Geographies	Rocket	Rocket Trial	26/06/2024	26/06/2024		0	Magnus Kahl	0
Crops	Em Test	Carrot	26/06/2024	26/08/2024		0	Magnus Kahl	0
Currencies	Rocket	Rocket Trial	26/06/2024	26/06/2024		0	Magnus Kahl	0
Custom fields	For James		25/06/2024	25/06/2024		0	Maciej Bednarek	0
Market	For Maryam		24/06/2024	24/06/2024		0	Maciej Bednarek	0
Warehouses	for Namdeo		21/06/2024	21/06/2024		0	Maciej Bednarek	0
Users	For UPL		19/06/2024	19/06/2024		0	Maciej Bednarek	0
	For Agrofinal		13/06/2024	13/06/2024		0	Maclej Bednarek	0
	Eve Elsen		05/06/2024	05/06/2024		0	Mariei Redoarek	0

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se a module	Demo catalogue								n >	Catalogues > Detail
Catalogues	General			Edit general info	🧪 iiles	to download		Download all file	· · · · · · · · · · · · · · · · · · ·	ENT ± CSV CONTEN
Trials Observations	Narre Demo catalogue	Title ISF 2024 demo catalogue	Preferred date 22/05/2024	Description	Typ	e al.No	File		Understand and Statement	
Inventory	Owner Maciej Bednarek				Out	Reference	6			
							_			
	+ Current varieties	View and edit variet	lies		Create & dow	rnload each f	ile separately	`		
Access policy Geographies	· · · · · · · · · · · · · · · · · · ·	View and edit variet	lies		Create & dow	rnload each f	ile separately	`	Search field	Q
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 Access policy Geographies Crops Currencies 	Current varieties			VE CURRENT VIEW + Out reference Supplier's varie				op Segr		Q Supplier contact
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 Access policy Geographies Crops Currencies Custom fields Market Warehouses 	Current varieties	E DENSITY & EXPORT OF Serial No S SUMDAA34	CUSTOM VIEW 0 SAI	Out reference Supplier's varie	ty n Supplier's variety I	D Głobel crop Vegetables	Crop family Cn Umbellferae CA	RROT Nant	ment	Supplier contact
 Access policy Geographies Crops Currencies Custom fields Market Warehouses 	Current varieties	BENSITY & BAPORT C Serial No S SUMOAA34 P SUMOAA39 P	CUSTOM VIEW O SAN Seed type Hybrid	Out reference Supplier's varie 443,495	ty n Supplier's variety I 1729	D Głobel crop Vegetables	Crop family Co Umbeliferae CA	RROT Nant RROT Kuro	ment taise cylindrical	Supplier contact Molseed
Access policy Access policy Cog Access policy Cog Access policy Cog Cog Access Cog Cog Access Cog Cog Access Cog Access Policy Access Pol	Current varieties	DENSITY & DROAT C Serial No S SUMDAA49 7 SUMDAA49 7	custom view o sw Seed type Hybrid Vain	Out reference Supplier's varie 443,495 244,123	ty n Supplier's variety I 1729 15646	D Głobał crop / Vegetables / Vegetables /	Crop family On Umbeliferae CA Umbeliferae CA	RROT Nant RROT Kuro RROT Nant	ment taise cylindrical rda conical	Supplier contact Motseed TrucSeeds

Creation of a new catalogue:

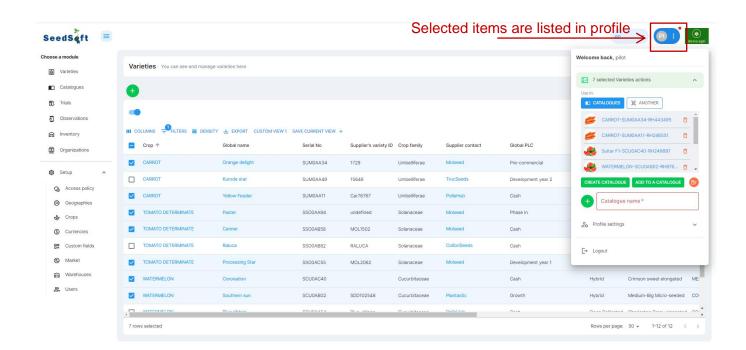
To create a new catalogue, press the "add new catalogue" button. After entering basic information (such as catalogue name, title, date & description) submit the catalogue. You will then view a new page which you can edit info, add files to download and add varieties to the catalogue.

Add varieties to a catalogue:

There are two methods for adding varieties to a catalogue:

- Click on "add variety to this catalogue" button. When the variety table opens, you can select as many as varieties needed (if you don't see any varieties, you may need to switch off the visible PLC). By clicking on the "add button" the selected varieties will be added to the catalogue.
- 2. In the varieties table, you can select as many varieties as needed. Then, through the profile section in the top right

corner, you can view the selected varieties and add them to either an existing catalogue or a new catalogue.



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Trials							CATALOGUES
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Inventory		NSITY 🛃 EXPORT CUSTOM VIE					CARROT-SUM0AA11-RH246551
Organizations	Crop 个	Global name	Serial No Su	pplier's variety ID Cr	op family Supplier cont	tact Global PLC	Suitar F1-SCU0AC40-RH249897
Setup ^	CARROT	Orange delight	SUM0AA34 172	29 Ur	nbelliferae Molseed	Pre-commercial	WATERMELON-SCUOAB02-RH976
Access policy	CARROT	Kuroda star	SUM0AA49 156	646 Ur	nbelliferae TrucSeeds	Development year 2	CREATE CATALOGUE ADD TO A CATALOGUE
Geographies	CARROT	Yellow Feeder	SUM0AA11 Ca	r76767 Ur	nbelliferae PolleHub	Cash	Catalogue name * 2
Crops	TOMATO DETERMINATE	Paster	SSO0AA94 und	defined Sc	lanaceae Molseed	Phase in	3
Currencies	TOMATO DETERMINATE	Canner	SSO0AB58 MC	DL1502 Sc	lanaceae Molseed	Cash	₽¢ Profile settings
Custom fields	TOMATO DETERMINATE	Raluca	SSO0AB82 RA	LUCA So	lanaceae ColibriSeeds	Cash	[→ Logout
Market	TOMATO DETERMINATE	Processing Star	SSO0AC55 MC	DL2062 Sc	lanaceae Molseed	Development year 1	
Warehouses	WATERMELON	Coronation	SCU0AC40	CL	curbitaceae	Cash	Hybrid Crimson sweet elongated
Users	WATERMELON	Southern sun	SCU0AB02 SD	D102548 Cu	curbitaceae Plantastic	Growth	Hybrid Medium-Big Micro-seeded
		Diso disbon	001044F4 BL		Dollation	·	Anna Ballantad - Abadantas Anna danatad
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a module Varieties		Vari	eties You can see a	nd manage varieties here							Welco	me back, pilot		
Catalogues				٨					Constant and a factor			5 selected Varieties acti	ons	1
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Observations		-									6	CARROT-SUM0AA4	9-RH244123	0
Inventory		ш со		E DENSITY 🛃 EXPORT	CUSTOM VIEW 1	SAVE CURRENT VIEW	+				6	CARROT-SUM0AA1	-RH246551	٥
Organizations			Global name	Serial No	Seed type	Supplier's variety ID	Crop family	Crop ↑	Segment	Supplier contact			ATE-SSOOAB	٥
Setup			SLEOAA81	SLE0AA81	Open Pollinated	Barbaros	Leguminosae	BEANS BUSH/DWARF	French - green podded - stri	Vegetate			ATE-SSOOAB	٥
Setup	~		Orange delight	SUM0AA34	Hybrid	1729	Umbelliferae	CARROT	Nantaise cylindrical	Molseed	CRE	ATE CATALOGUE ADD	TO A CATALOGUE	
			Kuroda star	SUM0AA49	Main	15646	Umbelliferae	CARROT	Kuroda conical	TrucSeeds	3	Catalogue	2	2.
			Yellow Feeder	SUM0AA11	Hybrid	Car76767	Umbelliferae	CARROT	Nantaise cylindrical	PolleHub	Ĩ.			
			Paster	SSO0AA94	Hybrid	undefined	Solanaceae	TOMATO DETERMINATE	Dual Purpose	Molseed	20	Profile settings		
			Canner	SSO0AB58	Hybrid	MOL1502	Solanaceae	TOMATO DETERMINATE	Dual Purpose	Molseed		ontact info		
			Raluca	SSOOAB82	Open Pollinated	RALUCA	Solanaceae	TOMATO DETERMINATE	Red round on ground >150g	ColibriSeeds	Prefer	red date format	EUR(Day.Mo	onth.Ye
			Processing Star	SSO0AC55	Hybrid	MOL2062	Solanaceae	TOMATO DETERMINATE	Dual Purpose, Pink	Molseed	[→	Logout		
			Coronation	SCU0AC40	Hybrid		Cucurbitaceae	WATERMELON	Crimson sweet elongated					
			Pauthara aua	00104000	e to stand at	000100540	A	MATERNAL ON	4.4. al	Disstantia	· · · · · ·		0001 TO	

Trials Module

The trials module is used to create, track and edit information about trials.

In particular a user can plan the trial including all the relevant details - location, responsible trial officer, trial protocol, varieties in the trial, sowing, planting, results and observation dates.

Explanation of some of the fixed fields of a trial:

- External coordinator name: If an external coordinator is a user in the system, they will gain access to this trial. Additionally, if 'Shared with Organization' is clicked, all people within the external coordinator's organization will also gain access to the trial.
- Protocol allows the user to choose which protocol (from the ones available for the crop) will be used to assess this trial.

Additionally – as for any other module in the system, a SeedSoft client can choose to add custom fields to the trials.

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Choose a module	Trials You can see and manag	e Trials here.				↑ Trials
Catalogues	•					
 Trials Observations 					Search field	9
Inventory	III COLUMNS 😇 FILTERS 🔳 I	ENSITY 🛃 EXPORT CUSTOM VIEW 1 S.	AVE CURRENT VIEW +			
Organizations	Trial ID Crop IDENTICAL	Geography IDENTICAL	Trial type IDENTICAL	Trial status IDENTICAL	External coordinator	General result
	> 498 (8) WATERMELON	Egypt	PRE-COMMERCIAL	ONGOING	CropCircle-Mohamed Kairo	POSITIVE
錢 Setup 🗸 🗸	> 518 (2) WATERMELON	Angola	PRE-COMMERCIAL	ONGOING	Θ.	•
	> 517 (1) WATERMELON	Bangladesh	DEVELOPMENT	PLANNED	Proseed-Abu Lono	NON-CONCLUSIVE
	> 516 (1) TOMATO DET	RMINATE Turkey	SCREENING	PLANNED	AgroGenesis-Richard Nolte	NON-CONCLUSIVE
	> 510 (1) ONION	Australia	PRE-COMMERCIAL	PLANNED	Ancientroots-Vasilena Fillipova	•
	> 515 (1) WATERMELON	Turkey	SCREENING	PLANNED	AgroGenesis-Richard Nolte	•
	> 509 (1) Asperge	Algeria	PRE-COMMERCIAL	ONGOING	Θ.	•
	> 514 (1) WATERMELON	United Kingdom	SCREENING	PLANNED	Θ.	
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Creation of a new trial:

To create a new trial, press the "add new trial" button.

- On this page, you should submit the basic details of a trial such as region, crop name, trial type, dates, protocol, trial status, responsible people, sowing & planting info, remarks, requirements, etc.
- Once the protocol is selected for a trial, it cannot be changed.
- Afterward, the user can specify the **location on a map**, upload the trial protocol, trial report, and trial images.

SeedSeft			en 🔹 😰 🗄 💽
Choose a module		Create new trial	* > Triats > Create
Catalogues		Recent Activities	Fill out mandatory fields
Cbservations		COSERVATIONS	
Crganizations		Name Region*	Trial Type Trial Status *
tit Setup	Ŷ	202409/18 🔂 Global crop	Crop name* Protocol
		Manager	- Soving date - Planting date -
		External Coordinator Result data	The external coordinator can grant their organization access to view the trial by checking this box.
		remess 第 7 年 H2 田 町 H O YA ク	Prydearthy Regularized ままそれ2 画 単 # O M G
Seed Seft	۳		en 🔹 🔞 : 🌒
 Varieties Catalogues Trials Observations Inventory Organizations 		Select location on map	Upload images, protocol and report
1 Setup	Ť	Uptext fine report	Submit the new trial

In the next page you can specify varieties or third-party varieties.

By clicking on "Add Variety" you can mark varieties from the list (If you don't see any varieties, you may need to switch off the visible PLC.) By clicking the "Add" button for the second time, the selected varieties will be added to the trial.

Se	edS¢ft										en 🔹	P: 8
Choose	a module		Distribut	or led trial to d	lemo c 🚥							
8	Varieties		Additio	nal attribute:								^
	Catalogues											
5)	Trials		Soil type			info		line	n demo		Ecology	<u>~</u>
Ð	Observations			il, Silty soil		16/05/2024			use in demo		Open Field, Net protection	
្រា	Inventory		Harvest di 31/10/20									
۵	Organizations										+ ADD VARIETY + ADD 3RD PA	ARTY VARIETY
鐐	Setup	Ť		Order	Variety	Serial No	Alias name	Volume of seed	Unit	Variety result	Warehouse Remarks	
			~	2	Blue ribbon	SCU0AA54	Fiction1	15.0	gr	Negative	Warehouse Jordan	Î
			~	3	Southern sun	SCU0AB02		15.0	gr		Warehouse Mauritius	
			~	3	Coronation	SCU0AC40	New name	15.0	gr	Non-conclusive	Warehouse Hungary	
			~	5	Another benchmark			15.0	gr			
			~	6	Crimson Sweet	SCU0AA52		12.0	ks		Warehouse France	
											Rows per page: 50 ¥ 1−8 of	• f8 < >

Noose a module	Select some v	arieties to add		_	le is for selec	•			×
Catalogues				Ŭ				Search field	٩
Trials		FILTERS E DENSITY 🕁 EXP	ORT CUSTOM VIEW 0	SAVE CURRENT VIEW +					
Observations	Global name	Serial No	Seed type	Out reference Supp	lier's variety n Supplier's variety IE	Global crop	Crop family	Crop	Segment
Inventory	SCUDAC47	SCU0AC47	Hybrid	435,577	AW_1722	Vegetables	Cucurbitaceae	WATERMELON	Charleston Gr
Organizations	SCUDAC50	SCU0AC50	Hybrid	147,294	null	Vegetables	Cucurbitaceae	WATERMELON	Grey bell roun
🕽 Setup 🗸	SCU0AB99	SCU0AB99	Hybrid	736,874	ROYAL_FANTASY_F	1 Vegetables	Cucurbitaceae	WATERMELON	Crimson swee
	SCUDAC19	SCU0AC19	Hybrid	830,876	TLW_2218	Vegetables	Cucurbitaceae	WATERMELON	Sugar baby ro
	SCUDAC21	SCU0AC21	Hybrid	572,118	TLW_2295	Vegetables	Cucurbitaceae	WATERMELON	Jubilee type
	-						Ro	ws per page: 50 👻	1-25 of 25 < >
		TI	nis is the	table of ex	isting varietie	s in th	e trial		
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For third-party varieties, you should fill out the form below. Include details such as the volume of seeds, order, variety name, variety result, warehouse, etc.

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After submitting varieties, you can edit and manage them in the table. Double click on each field to change or add a warehouse, volume of seed, variety result, etc.

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Note: The varieties with no assigned warehouse are highlighted in light pink.

Inside the trial page, you can see more detailed information about the trial in the description section and also observations.

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Observations Module

This section of the app gives the user access to all observation data (and photos) collected. As comparing different crops doesn't make sense, the user is obliged to select one crop. As soon as done, all observations done with this crop will be displayed and further filtering is then possible.

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e a module Varieties	Observations You can se	ee and manage Obse	ervations here.							🔒 > Observat
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Inventory Module

In this section, you can check the crop and variety inventory in various warehouses located in different countries, as well as the warehouse entity.

By clicking on each warehouse name, a list of crops in that warehouse, their global name, coded reference, remaining quantity (after transaction process), and unit will be displayed, along with actions you can take on each: review history (of transaction) or make a new transaction on that inventory/ warehouse. You can also download the inventory of that warehouse using the download button at the top of the list.

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Make a transaction:

By clicking on the "make a transaction" button, you can create a new transaction between warehouses. There are three types of transactions, and other fields need to be filled out depending on the transaction type that you select:

- Transfer (In/Out): Transfer seeds from one warehouse to another.
 For instance from central warehouse, to trial coordinators home.
- 2. **Receive**: Receive crops into a specified warehouse from an external source (Breeder, suppliers)

3. **Deduction**: Correction of stock levels in case of inventory mismatches, germination level driven losses or write offs.

Organization Module

In this section, you can view a list of organizations, their type/role (supplier, customer, warehouse, etc.), location, varieties, and trials. By clicking on "create new organization," you can fill out the form, including the name, organization type, and region, to add the new organization involved in the trial.

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An organization is a **contact** in the system that may include entities in different geographies, along with individuals (people) working within the organization. Each individual **may be connected** to a specific entity.

You can add a new entity or person, and for additional fields, the admin can define them as needed and they will be displayed in "additional attributes".

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Varieties and trials associated with the organization are displayed at the bottom of the organization page:

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🕸 Setup 🔨		SSO0AC73	SSO0AC73	Hybrid	246,976		GRW104	Vegetables	Solanaceae	TOMATO DETERMINATE	Red round on ground
G Access policy		SSO0AC75	SSO0AC75	Hybrid	211,303		GRW770	Vegetables	Solanaceae	TOMATO INDETERMINATE	Beefsteak (Big Beef)
Geographies		SSO0AC76	SSO0AC76	Hybrid	105,991		GRW771	Vegetables	Solanaceae	TOMATO INDETERMINATE	Beefsteak (Big Beef)
 Crops Currencies 		SSO0AC80	SSO0AC80	Hybrid	555,294		GRW015	Vegetables	Solanaceae	HOT PEPPER	Jalapeño Pepper (Ca
Custom fields		SSO0AC81	SSO0AC81	Hybrid	939,332		GRW028	Vegetables	Solanaceae	HOT PEPPER	Sheep horn
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Glossary

<u>A</u>

Aggregation (in data tables): Allows to see data in an aggregated form (sum of a group, average of several numbers etc.) in a data grid. The most frequently used ones are:

A. Identical: If all items in a that column within a group are identical, they'll be displayed at the 'group level'



- B. Average: instead of seeing individual values for a field of group, a mathematical average will be shown.
- C. Size: The total number of items in a column.
- D. Sum: Shows the result of adding all numbers together in a numerical column.
- E. Min: Shows the minimum amount in a column.
- F. Max: Shows the maximum amount in a column.

Archive: An option to hide items that are no longer in use. You can restore archived items whenever needed. In most modules, you'll see a switch that, when turned on, shows archived rows or

items in the list. You can easily unarchive them using the "unarchive" button.

Note: To archive an item, you must first archive all related or subordinate items. For example, you cannot archive an organization until the people and entities associated with it are archived.

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	Email r@example.com	Phone (Identification number		Email rn@example.com	Mobile (Telephone 5	
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<u>B</u>

Breeder: The individual or company who has bred a seed variety.

<u>C</u>

Crop (or species): Lowest level of aggregation of products in SeedSoft usually corresponding to agronomical species. However, there can be exceptions – for instance a SeedSoft user can choose to have Tomato Determinate and Tomato Indeterminate as separate crops.

Crop family: A group of related crops within the same botanical family, sharing similar characteristics and growing conditions. Example: Solanaceae (tomatoes, peppers, eggplants). In SeedSoft it's the second (after Crop) product grouping level.

Coded reference: A randomly created numerical code for each variety. Can be used to as an alternative to Serial number in order to maintain product secrecy.

[Data Grid] Columns: Through this section you can control and manage columns.

[Data Grid] Custom view: In this section a user can manage saved views of a data grid.

Custom field – a field added by the SeedSoft client to a module of the system. This field will be added to all 'members' of the module (for instance all varieties or all trials). A custom field can be a 'text' / 'text area' (for longer texts), 'numeric', 'date', 'single- or multi select' type. The admin can also specify access levels required to see the field and then add these levels to user roles (see access management). Data grid: This is the name of the tables used in SeedSoft:

	DENSITY 🕁 EXPORT	CUSTOM VIEW 3	SAVE CURRENT VIEW	+		
Global name	serial no	Seed type	Supplier id	Crop family	Crop 个	segme
Yellow Feeder	SUM0AA11	Hybrid	Car76767	Umbelliferae	CARROT	Nantai
Orange delight	SUM0AA34	Hybrid	1729	Umbelliferae	CARROT	Nantai
Kuroda star	SUM0AA49	Main	15646	Umbelliferae	CARROT	Kuroda

<u>E</u>

External coordinator: An individual external to the SeedSoft client responsible for observing and managing a trial.

<u>F</u>

Farm gate price: Price of seeds as paid by the farmers.

[Data Grid] Filter: Data Grid function allowing to filter the list in a granular way by different columns or their combination You can add filters and choose whether to filter based on both criteria or only one (AND/OR). There is also a "remove all" option that allows you to clear all filters and view the default list. <u>G</u>

General result [Trial]: Indicates the final result of a trial. The options can be adapted in a client system, as standard they are:

- A. Negative
- B. Non conclusive
- C. Positive

Global crop: In SeedSoft it's the third (after Crop and Crop Family) product grouping level. For instance: 'Field Crops' and 'Vegetables'

Group by: Grouping all columns based on/prioritized by that specific column title.

• [Trait] Grouping: Through the options module, the admin can define trait groups. While creating or editing a trait, you can specify the group and select which group the trait should belong to (this is displayed in mobile app).

Hierarchy (geography): The link between a particular geographical region and the 'World'. For example: World/Asia/India/Gujarat. It is fully configurable in SeedSoft.

<u>|</u>

Incoterms: Widely-used terms of sale, are a set of 11 internationally recognized rules which define the responsibilities of sellers and buyers.

Read more

Internal coordinator: An individual within the organization who is responsible for observation and managing a trial.

<u>L</u>

Legend: A short guide or tooltip that briefly explains the concept behind a trait or specific field for the observer. For example, the "Trial Result" legend might include options like "Canceled," "Planned," or "Completed," providing clarity on each term's meaning and usage.

<u>M</u>

Manager [Trial]: An individual within the organization who is responsible for management of a specific trial.

Margin: The difference between a product selling price and the cost of production (or purchase), can also be expressed a percentage ratio of profit to revenue.

<u>0</u>

Observation (In trials): Data and photos gathered in the field during a visit. Typically, each visit to a field is one observation in SeedSoft. Each trial can have an unlimited number of observations associated with it.

<u>P</u>

Product Life cycle (PLC): All the stages of product's existence from early breeding, through adaptation trials, commercial presence to obsoletion. The various stages can be defined by the client. As standard they are defined as:

	Code	Meaning	Time
	Screening	New product, first trials to assess basic fit to market	Max 1 year
Trialing -	Development year 1	1 st year of in-country trials with comparison to benchmark	1 year
g	Development year 2	2 nd year of in-country trials to confirm yield, positioning and USP	1 year
	Pre-commercial	Commercial preparation (Demo trials / regulatory work)	Max 1 year
	Phase in	Intese marketing efforts, first sales	1-2 years
Sales _	Growth	Commercial growth phase	1-3 years
	Cash	Plateau, maximum sales, stale market positioning	0-10 years
	Decline	Sales dropping, successor in growth phase	2-5 years
	Phase out	Last commercial efforts, removal of variety from the market	1-2 years
End of life –	Sell off	Sell off of the available stock (typically at discount)	1-3 years
	Obsolete	No activity	Forever

Protocol: Refers to a specific selection of traits assessed in a trial. For example, depending on skills of an observer or needs of a particular trial, one protocol might have only a few traits focusing on fruit quality and yield, while another might be much more extensive and cover diseases, plant behaviour, seed germination and post-harvest performance.

Note:

- 1. Once a protocol is selected for a trial, it cannot be changed afterward.
- 2. Protocols are defined and linked to a crop in the options module by the admin.

<u>S</u>

Scope (of traits): There are two available scopes of traits in SeedSoft:

- 1. Web (descriptive): describing the variety in variety details / catalogues.
- 2. Mobile (observable): Visible in mobile and used to observe varieties in the field.

The same concept – fruit length for the same variety can look different. As a observable trait fruit length might be an array of numbers: [10.5, 12.3, 14.3, 10.7, 11.0] whereas the descriptive trait of fruit length might be: *"in normal conditions 90% of fruits between 11-13cm"*.

Serial number: A unique identifier assigned to a variety used for tracking and record-keeping purposes. When creating a variety, a serial number will be **auto-generated by the system**. The format of the serial number must be defined at the beginning of working with SeedSoft

Seed type: There are two types of seeds:

- A. Open Pollinated (OP): Naturally pollinated seeds that can be saved and replanted, producing consistent plants.
- B. Hybrid (F1): Cross-pollinated seeds from different parent plants, offering specific traits but not true-to-type if replanted.

Segment: A categorization of varieties within a crop. A variety can belong to many segments. An example is a Watermelon variety belonging to segments: Elongated Seeded and Crimson Sweet.

Supplier: The contact or individual that provides seeds (varieties). There are three fields in varieties related to suppliers:

A.Supplier's variety name

- B.Supplier's variety ID
- C.Name of the supplier

<u>_</u>

Trait: A distinguishing characteristic or feature of a crop, can be resulting from its genetic makeup or influenced by environmental factors (e.g., color, firmness, etc.). In case of SeedSoft there are 2 scope or types of traits: observable (collected in the field) and descriptive (used in the variety description for technical and marketing purposes). All traits can be stored as:

- A text field
- A numerical field (incl. several number per cell)
- Single- and multi select
- Date

Transaction [warehouse]: Transactions are the process of moving sample seeds and include three types – see the corresponding <u>module</u>.

Trial ID: An ever-incrementing and unique number of a trial.

Trial status: Status of the trial shows the progression of the trial from start to completion. The statuses can be defined by SeedSoft clients and typically include at least 3 statuses:

- A. Planned: The process of planning the trial and observation stages.
- B. On-going: Typically after the first observation
- C. Completed: Successfully finished.

Trial type: Trial types are indicating the reason for performing a trial. The reasons are client-configurable. A standard set from SeedSoft is:

- A. Screening typically trial of a large number of varieties to choose the promising candidates for more detailed trials in a particular geography
- B. Development trial of a small number of new varieties with properly chosen internal and external benchmarks to find the best performers.
- C. Pre-commercial trial of a variety chosen for commercialization, mostly for final positioning and demonstration purposes
- D. Regulatory for registration in a particular geography
- E. Other if none of the above fits

Trial sowing date: Date when the seeds are sown.