



# Visualize big data and create individual customer frontends

CS3 2023  
March 8th, 2023

	Headline	Publish Date	Header Image	Writer	Platform
1	Road trip in the USA	11/6/2020		Jacob Altmann	Facebook Tik Tok
2	Explore the irish lakes	10/19/2020		Sarah Lee	Tik Tok Instagram
3	Sunset in Mexico	9/21/2020		Thomas Peterson	Facebook
4	Relax over the clouds	11/17/2020		Sarah Lee	Tik Tok Instagram
5	Highlights of South America	10/10/2020		Thomas Peterson	Facebook
6	Paris in summer	10/21/2020		Jacob Altmann	Instagram

from the developers of Seafile

# Christoph Dyllick-Brenzinger

## 1. Role at CS3:

- Founder of datamate GmbH & Co. KG
- datamate is primary support and sales partner in Europe for **Seafile**.


## 2. Role at CS3:

- Founder of SeaTable GmbH
- German-Chinese **Joint-Venture with Seafile Ltd.**
- worldwide distributor of SeaTable
- provider of SeaTable Cloud SaaS-Offering

# Agenda

- Current available output options
- Reasons to develop the universal app
- Capabilities of the universal app

**SeaTable is the world leading self-hosted, collaborative, low-code platform to build your own business processes - without any programming knowledge.**

from the developers of  Seafile

# Status I presented yesterday: a „generic workflow“

## INPUT

- 25+ column types to store any kind of data
- many ways to add data to SeaTable
- unlimited rows with Big Data backend



## WORK

- Sync and share data between bases with common datasets
- Automations and buttons
- SQL like endpoint
- Visualization, Plugins and statistics



## OUTPUT

- Shared bases
- Permissions for logged in uses
- Read only external views

*What comes next?*

# Fine grained permissions for internal users with a login

Manage members

Manage group members

Add group member

Search users...

Name	Role
Steve Rogers	Member
Tony Stark	Member
Hulk	Owner

Edit table permissions

Users Logins +

Who can add rows?  
Everyone

Who can delete rows?  
Nobody

Who can edit rows?  
Admins

Who can view rows?  
Specific users

Select users...  
Hulk x

Edit column permissions

- Restrict edits to cells
- None
- Admins
- Specific users
- Who can edit column settings

View permissions

Share view Default View

Share to user

Share to group

External link

User	Per
Select users...	R

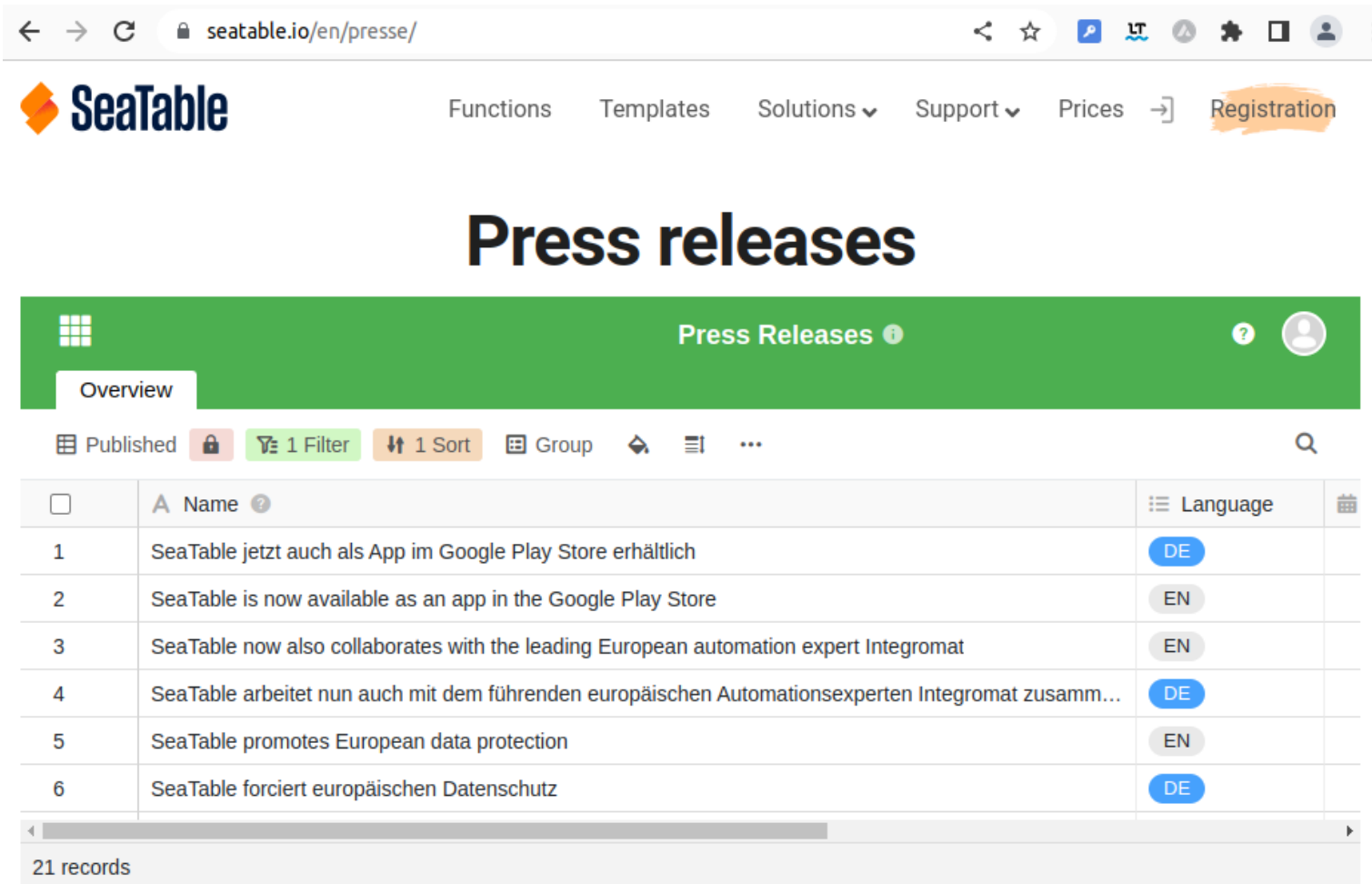
# Share views with the permission „read-only“

The screenshot shows the SeaTable interface with a table titled "all column types". The table has the following columns: Text, Long text, Number, Percentage, and Collaborator. The data is as follows:

	Text	Long text	Number	Percentage	Collaborator
1	Peter Müller	Goethestraße 12 12345 H...	1,70	99,0%	d7646e48952944a7f...
2	Klaus Lewandowski	Nietzscheplatz 21 23456 B...	1,78	100,0%	d7646e48952944a7f...
3	Stefan Groß	Schillerstraße 34 56789 Be...	1,85	96,5%	d7646e48952944a7f...
4	Helmut Ohnelos	Landwehrstraße 57 München	1,73	92,5%	d7646e48952944a7f...
5	Christina Wolf	Beethovenstraße 89 23456...	1,65	98,0%	d7646e48952944a7f...
6	Claudia Sonnenblum	Mozartweg 67 98765 Wiese	1,66	83,0%	d7646e48952944a7f...
7	Felix Sohn	Lessingstraße 23 13786 Br...	1,70	99,0%	d7646e48952944a7f...
8	Fred Schmiedheini	Aristoteles Weg 2a 87448 ...	1,78	100,0%	d7646e48952944a7f...
9	Carola Gerke	Tschaikowskiplatz 48 3982...	1,85	96,5%	d7646e48952944a7f...
10	Daisy Danolino	Brucknerstraße 10 49998 ...	1,73	92,5%	d7646e48952944a7f...
11	Thomas Daniel	C-Debussy-Straße 22 778...	1,65	98,0%	d7646e48952944a7f...
12	Claas Jungheinrich	Rachmaninow Steige 23 1...	1,66	83,0%	d7646e48952944a7f...
13	Mario DiPietro	Walter-von-der-Vogelweide...	1,75	96,4%	d7646e48952944a7f...
14	Celine Mueller	Johannes-Brahms-Straße ...	1,69	92,5%	d7646e48952944a7f...

Summary: 31 records, Sum 54,60, Sum 2878,9%

# Embed your view on any website „read-only“



The screenshot shows the SeaTable web interface. At the top, there is a navigation bar with the SeaTable logo and menu items: Functions, Templates, Solutions, Support, Prices, and Registration. The main heading is 'Press releases'. Below this is a green header bar with 'Press Releases' and a user profile icon. The 'Overview' tab is selected. The table below has columns for 'Name' and 'Language'. It contains 6 records, with a total of 21 records shown at the bottom.

	Name	Language
1	SeaTable jetzt auch als App im Google Play Store erhältlich	DE
2	SeaTable is now available as an app in the Google Play Store	EN
3	SeaTable now also collaborates with the leading European automation expert Integromat	EN
4	SeaTable arbeitet nun auch mit dem führenden europäischen Automationsexperten Integromat zusamm...	DE
5	SeaTable promotes European data protection	EN
6	SeaTable forciert europäischen Datenschutz	DE

21 records



# Build custom output with the API - Example 1

	templates	plugins	plugins archive	+		
Default View Filter Sort Grouped by 1 column 2 hidden columns						
name	category	display_name	description	card_image	card_image_expanded	
5	Project Tracker	Projects	Project Tracker	Manage every activity of your next project with this simple and clear table. So you always keep the overview and are always in control.		
6	Task Management	Projects	Task Management	Project management requires a precise planning and overview of previous and upcoming tasks. With this flexible project management template, you always have an overview of the project stages and the task...		
7	Team Meetings	Projects	Team Meetings	1 Team meetings are almost daily bread in everyday work. These important meetings ensure the communication that is urgently needed to coordinate projects. Most of the time, however, meetings are ...		
8	Trello Alternative	Projects	Kanban Board / Trello alternative	1 A structured approach is required in project management - many project management teams use the Kanban method for this. It consists of a Kanban board with Kanban cards on which important tasks ...		

generates

The screenshot shows the SeaTable website landing page. At the top, there's a navigation bar with 'Functions', 'Templates', 'Solutions', 'Support', 'Prices', and 'Registration'. The main heading is 'Start Your Next Project with a SeaTable Template'. Below it, a sub-heading says 'Let our templates inspire you for your work and life!'. A 'Categories' sidebar lists various project management categories. The 'Most popular' section features four template cards: 'Project planner', 'Trello alternative', 'Product launch', and 'Recording of working time', each with a representative image and a brief description.

# Build custom output with the API - Example 2

The screenshot displays the 'ideas.seatable.io' web interface. At the top, there's a green navigation bar with 'Requests', 'Comments', and 'Votes' tabs. Below this is a toolbar with options like 'newest on top', 'Filter', 'Sort', 'Group', and 'Hide columns'. The main content area is split into two parts: a table on the left and a submission form on the right.

	Title	Description
1	External apps - allow to click on field on click links	I have an app deployed with external tab
2	improved calendar plugin	The function of the calendar of absences
3	Forms and linked columns	Now when we are at seatable when we l

The submission form on the right is titled 'YOUR NEW IDEA FOR SEATABLE' and includes fields for 'TITEL' (with a placeholder 'Short and descriptive title') and 'DESCRIPTION OF YOUR IDEA' (with a placeholder 'Additional details ...'). A 'Submit my idea' button is at the bottom. To the right of the form is a search bar and a 'show ideas' dropdown menu set to 'Newest'.

Below the submission form, a list of ideas is displayed with their titles, descriptions, and comment counts:

- External apps - allow to click on field on click links** (0 votes): I have an app deployed with external table with a column that contains links and i want to be able for them to click on them. This is not currently th...
- improved calendar plugin** (2 votes): The function of the calendar of absences (absences, vacations, tasks, etc.) for several user periods. So that, as in the Gantt chart, there is a displ...
- Forms and linked columns** (1 vote): Now when we are at seatable when we link to another table we can see and search with all the columns of the row. But when we make a link via a Form...

## Summary: current output possibilities

Internal Users with a login

- fine grained permission ✓

Users without a login

- two easy to use „read-only“ ✓  
-- or --
- highly customizable solutions possible, but this is NOT no-code! ✓

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### Something else?

- there are many situations between these two extremes (simple and built it yourself)
- universal app will close this gap

# Everybody should get the data he/she needs!



- Employees
- Users
- Power users
- Developers
- Non-IT Guys

> work with one or many bases



- Partners
- Customers
- Suppliers

> collaborate  
> get some info



- Supervisors

> approval  
> business decisions



- Management

> statistics  
> aggregated views

# Universal App is ...

**an interface designer in SeaTable to  
build custom apps for different user  
groups**

# Universal App for the management



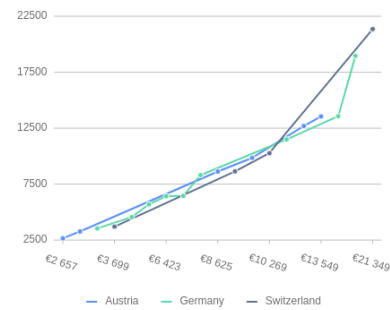
„Let's check how sales are doing?“



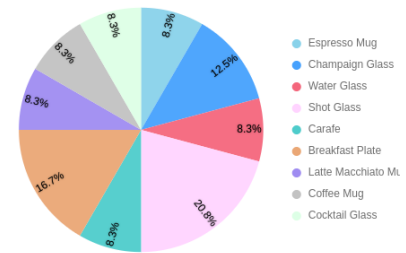
Statistics

## Store Sales in 2022

Summary of all store sales over the year.  
More text ...



## Overview of categories



„Nice, 30% growth in the last year.“

# Universal App for the supplier



„Let's check current stock.“

**In Stock (for supplier)**

Navigation

- Stock Overview

Stock Overview

Filter Sort Grouping 10 hidden columns

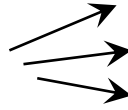
	Off. Name	Series	Product Type	Art...	Picture	In Stock
1	Crystal Glass Water 150ml	Gianna	Water Glass	GG128		23
2	Crystal Glass Water 350ml	Gianna	Water Glass	GG120		23
3	Crystal Glass Champaign 70ml	Gianna	Champaign Glass	GG127		24
4	Crystal Glass Champaign 100ml F...	Gianna	Champaign Glass	GG119		53
5	Crystal Glass Champaign 100ml LI...	Gianna	Champaign Glass	GG118		234
6	Crystal Glass Cocktail 400ml	Gianna	Cocktail Glass	GG126		123
7	Crystal Glass Cocktail 200ml	Gianna	Cocktail Glass	GG126B		23
8	Crystal Glass Shot 4cl	Gianna	Shot Glass	GG125		12
9	Crystal Glass Shot 4cl FLOWERS	Las Vegas Ed.	Shot Glass	GG125F		6
10	Crystal Glass Shot 4cl CIRCLES	Las Vegas Ed.	Shot Glass	GG12...		7
11	Crystal Glass Shot 4cl LINES	Las Vegas Ed.	Shot Glass	GG125L		12
12	Crystal Glass Shot 4cl GEOMETRIC	Las Vegas Ed.	Shot Glass	GG12...		32
13	Crystal Glass Carafe	Las Vegas Ed.	Carafe	GG124		67
14	Thin Glass Carafe	Elegance	Carafe	TG20G		23
15	Coffee Mug, Porcelain	Easy Line	Coffee Mug	EL561		3
16	Breakfast plate, Porcelain	Easy Line	Breakfast Plate	EL560		0
17	Dining plate, Porcelain	Easy Line	Breakfast Plate	EL540		124
18	Breakfast plate, Ceramics	Easy Line	Breakfast Plate	EL530		39
19	Dining plate, Ceramics	Easy Line	Breakfast Plate	EL520		0
20	Coffee Mug, Ceramics	Easy Line	Coffee Mug	EL557		30
21	Espresso Mug, Porcelain	Easy Line	Espresso Mug	EL556		4
22	Espresso Mug, Ceramics	Easy Line	Espresso Mug	EL555		123
23	Latte Macchiato Mug, Porcelain	Easy Line	Latte Macchiato Mug	EL559		23
24	Latte Macchiato Mug, Glass doubl...	Easy Line	Latte Macchiato Mug	EL558		234

„oh, we need to order new material...“

# Universal App for the employee

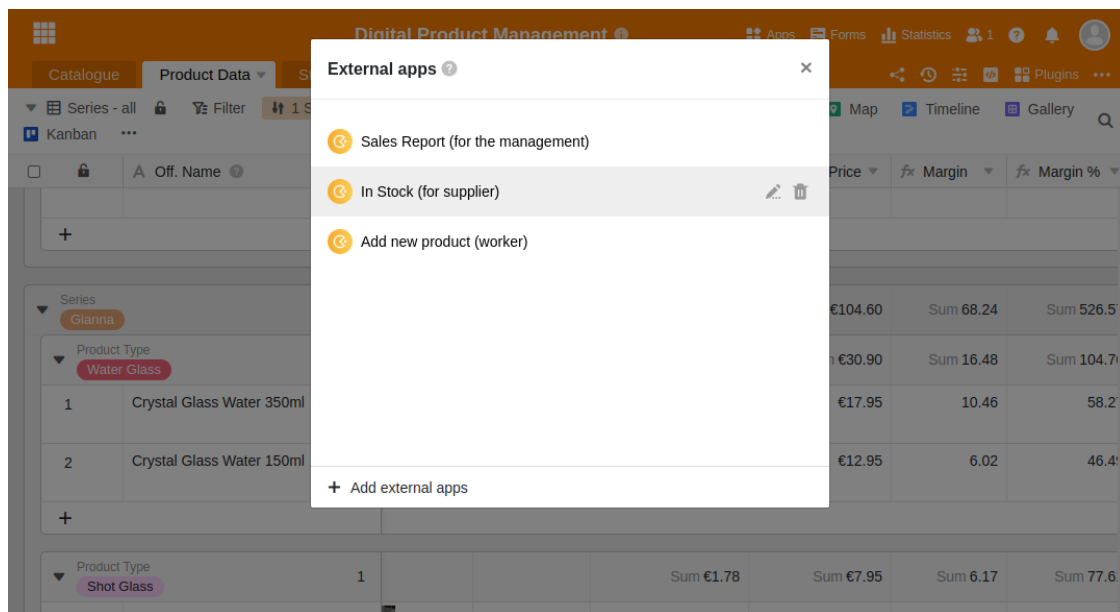


*„this is my personal  
work area...“*

A screenshot of a mobile application interface. On the left is a dark blue navigation sidebar with a white header 'Add new product (wo...'. Below the header are three menu items: 'Add new product' (highlighted in orange), 'Manage tasks with Kanban', and 'Working calendar'. To the right of the sidebar is the main content area, which is a light gray page titled 'Add new product'. The page contains several form fields: 'Series' with a 'Choose option' button, 'Product Type' with a 'Choose option' button, 'Size' with a text input field, 'Material' with a 'Choose option' button, 'Strength' with a text input field, and 'Picture' with a large gray button containing a white plus sign and the word 'Upload' below it.



# Features of the Universal App



*unlimited „apps“ possible*

## User and role management

User

Allow anonymous access

Role

Any logged in user visit the app be registered as app user automatically

Invite link

Open access

Submit

*fine grained access permissions*

## Create a new page

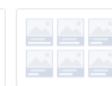
Select page type



Table



Form



Gallery



Calendar



Custom page



Kanban



Timeline

Page name

Table

Select icon (optional)

*many possibilities to build your own solution*

# Universal app will be ready to use mid of 2023.

## INPUT

- 25+ column types to store any kind of data
- many ways to add data to SeaTable
- unlimited rows with Big Data backend



## WORK

- Sync and share data between bases with common datasets
- Automations and buttons
- SQL like endpoint
- Visualization, Plugins and statistics



## OUTPUT

- Shared bases
- Permissions for logged in uses
- Read only external views
- **UNIVERSAL APP will be published as beta with the next version 3.6**
- **production-ready with 4.0**



# Do you have any questions?

1	E-Mail Marketing	Brand identity	<input checked="" type="checkbox"/>		Stars & Beauty	Christoph Dyllick-Br	2020-07-27	2020-08-03	
2	New visual identity	Brand identity	<input checked="" type="checkbox"/>		Stars & Beauty	Tony Stark	2020-08-01	2020-08-26	1 The customer want to ge
3	Corporate Design "Beef&More"	Brand identity			Best Beef in Town	Hulk	2020-09-01	2020-12-01	

### Category Product design Count 6

1	Design coffee mug	Product design	<input checked="" type="checkbox"/>		Coffee addicted	Thor	2020-06-24	2020-07-10	Promotional items for the new l
2	Sony Game Controller	Product design	<input checked="" type="checkbox"/>		YNOS	Hulk	2020-07-14	2020-07-25	1 Redesign of the YNOS g
3	Coffee New packaging	Product design	<input checked="" type="checkbox"/>		Coffee addicted	Steve Rogers	2020-08-01	2020-08-26	This is a follow-up project due t
4	Visual Concept Urban E-Bike	Product design	<input checked="" type="checkbox"/>		Cycle-Planet	Thor	2020-08-26	2020-09-12	First project for this customer. T
5	Packing box "Beef&More"	Product design			Best Beef in Town	Hulk	2020-09-01	2020-12-01	
6	Rollerblade "Dragon"	Product design			Super Rails	Tony Stark	2020-11-04		

### Category Webdesign Count 4

1	Coffee Landingpage	Webdesign	<input checked="" type="checkbox"/>		Coffee addicted	Thor	2020-07-02	2020-07-15	Create a new landing page for r
2	Blog Area Redesign	Webdesign	<input checked="" type="checkbox"/>		Chakalaka Inc.	Thor	2020-07-14	2020-07-29	Two column layout, white and c
3	Online Concept "Beef&More"	Webdesign			Best Beef in Town	Christoph Dyllick-Br	2020-09-01	2020-12-01	
4	Landing page	Webdesign			Super Rails	Ralf Dyllick-Brenzing	2020-11-04		