VOLUNTEER MANAGEMENT SYSTEMS FOR NON-PROFITS

A USER GUIDE TO GOOGLE FORMS, GOOGLE SHEETS, AND RETOOL

<u>Project Title</u>: Strengthening La Goyco's Volunteer Program: Enhancing the Volunteer Experience through Welcoming, Data Management, and Business Partnerships

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For More Information: https://wp.wpi.edu/puertorico/projects/2023-mar-may-2/goyco/

*This work was produced by undergraduate students in the Worcester Polytechnic Institute (WPI) Global Projects Program. For more information: <u>https://wp.wpi.edu/puertorico/</u>

What is this document?

• This user manual is designed to assist non-profit organizations such as Taller Comunidad La Goyco in developing a volunteer management system (VMS) for their organization using the Retool software.

Why was it produced?

• This manual was produced to provide an intuitive walkthrough of how such a system can be used.

Who is it for?

• This manual is intended for all non-profit organizations. It contains a section detailing the implementation at Taller Comunidad La Goyco.

How can people use it?

• Organizations can use the VMS to help keep track of volunteer activities, hours, and contact information.

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- 1. Contact us to let us know of your interest.
- 2. Maintain all authorship and other acknowledgements in any revised versions.
- 3. Share the revised version with us.

First Edition (B-term 2021):

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This manual provides a walkthrough of a volunteer management system (VMS) for non-profits using the software known as Retool.

A VMS helps non-profits analyze data and identify trends that can be used in grant applications, program management and internal organization, etc.

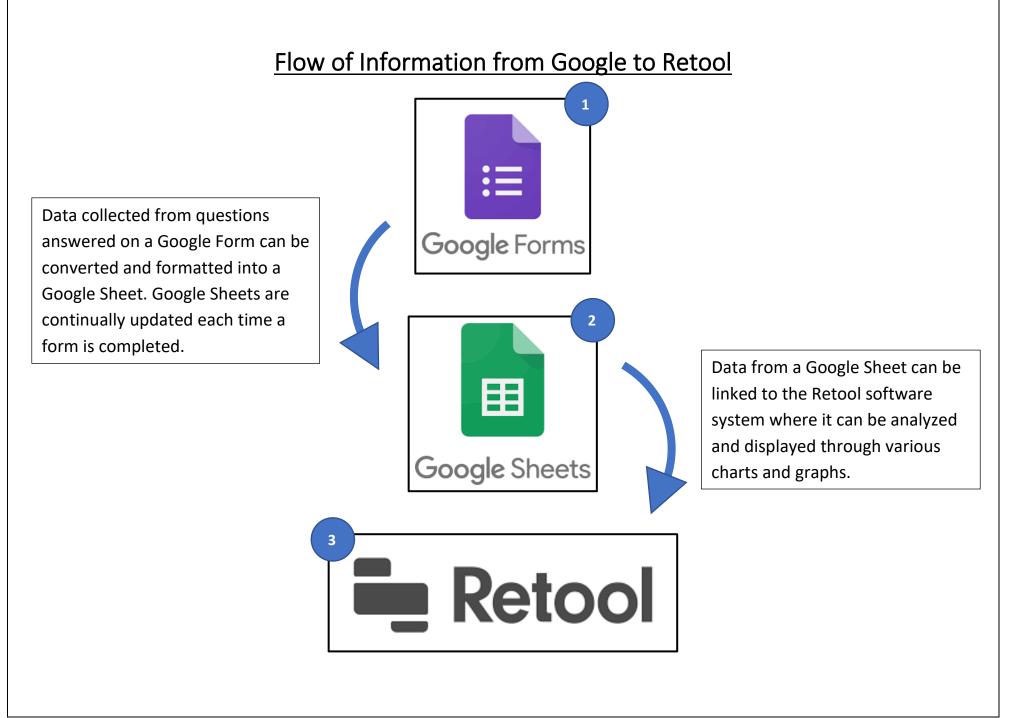
The 1st Edition of this guide was developed by a team of WPI students in Fall 2021 for the Caño 3.7 Organization. The 2nd Edition has been updated by our team in Spring 2023 to meet the needs of Taller Comunidad La Goyco.

We first discuss a case study detailing the implementation and features of the VMS developed for Taller Comunidad La Goyco. This is followed by a detailed discussion of those features that can be applicable to many non-profits.

To display data in the VMS, volunteers first fill out a Google Form accessed through a QR code that can be scanned with a phone. Volunteers have the option to provide various details, including personal contact information, how they learned about the organization, their skill sets, interests, or other information the organization may require. This information can be directly exported into a Google Sheet. Retool software can retrieve that data to display analytics in the dashboard.

Retool is a powerful tool that utilizes JavaScript, SQL, and other technologies to create a visually appealing dashboard. The online Retool University is a useful resource to learn how to use the software. It and other resources can be found in the external resource chapter.

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Information Flow at Taller Comunidad La Goyco

	Registro para voluntarios nuevos / New Volunteer Sign In
	Acceder a Google para guardar el progreso. Más información
	* Indica que la pregunta es obligatoria
	Nombre / Name * Tu respuesta
	Correo electrónico / Email Address (N/A si no tiene uno) *
	Tu respuesta
1	Número de teléfono / Phone Number (N/A si no tiene uno) *

Nombre / Name	Correo electrónico / Email Address (N/A si no tiene uno)	Número de teléfono / Phone Number (N/A si no tiene uno)
Jessica Smith	jsmith@example.com	555-555-1111
James Patrick	jpatrick@example.com	555-555-2222
Katherine Wilson	kwilson@example.com	555-555-3333
Brian White	bwhite@example.com	555-555-4444

Nombre	Correo electrónico	Número de teléfono 🕇
Jessica Smith	jsmith@example.com	555-555-1111
James Patrick	jpatrick@example.com	555-555-2222
Katherine Wilson	kwilson@example.com	555-555-3333
Brian White	bwhite@example.com	555-555-4444

Case Study: Taller Comunidad La Goyco

Taller Comunidad La Goyco is a community organization located in San Juan, Puerto Rico that relies on volunteer help to support their cultural, health, and environmental initiatives. Although they have approximately 100 volunteers, as of 2023, they did not have a formalized system to track volunteer information and hours. Using Google Forms, Google Sheets, and Retool, our IQP team developed a system to both collect contact information from new volunteers and track hours completed by volunteers.



Google Forms

Volunteers were invited to scan one of two QR codes that led them to Google Form to fill out. One QR code applies to new/first-time volunteers. That QR code is displayed on the Taller Comunidad La Goyco Welcoming Poster. New, or firsttime volunteers, are asked to supply information such as their name, email address, telephone number, home address, how they heard about Taller Comunidad La Goyco, their skills and interests. New volunteers are then asked a conditional (Yes/No) question about whether they live in the Machuchal community in Santurce.

Registro pa Volunteer S		arios nue	vos / New
Acceder a Google para ç	guardar el progreso. M	ás información	
* Indica que la pregunta	es obligatoria		
Nombre / Name*			
Tu respuesta			
Correo electrónico	/ Email Address	(N/A si no tien	e uno) *
Tu respuesta			
Número de teléfon	o / Phone Numb	er (N/A si no tie	ene uno) *
Tu respuesta			

The other QR code printed on a separate sign applies to recurring volunteers. Recurring volunteers are asked their name, the project/program they worked on/for, the number of hours they volunteered in that session, and any feedback they have for Taller Comunidad La Goyco staff and administration.

Ho	oja de asistencia / Time Sheet
Acced	ler a Google para guardar el progreso. Más información
* Indic	ca que la pregunta es obligatoria
	abre / Name * spuesta
Proy	ecto / Project *
ΟJ	Jardín Comunitario / Community Garden
0 s	Sala de Lectura / Library
○ A	Administración / Administration
Os	Salud / Health
\bigcirc c	Casa de la Plena / Plena Museum
OB	Brigada de limpieza / Cleaning Brigade
00	Construcción / Construction

If desired, a new Program/Project can be added at any time to both the New Volunteer and Recurring Volunteer Google Forms by clicking the "Pencil" edit icon on the bottom right of each Google Form, then clicking "Add option" on the "¿Qué le interesa? / What are you interested in?" or "Proyecto / Project" question.



Pencil Edit Icon

Cine / Movie Night	×
🗌 Jazz en La Goyco /Jazz Night	×
Option 13	×
Other	\times
Add option	

Adding a New Program/Project

Google Sheets

This information is added directly on a Google Sheet. The Retool program then retrieves data from Google Sheets to display analytics on the Retool dashboard.

Nombre / Name	Correo electrónico / Email Address (N/A si no tiene uno)	Número de teléfono / Phone Number (N/A si no tiene uno)
Jessica Smith	jsmith@example.com	555-555-1111
James Patrick	jpatrick@example.com	555-555-2222
Katherine Wilson	kwilson@example.com	555-555-3333
Brian White	bwhite@example.com	555-555-4444

Google Sheet of New/First-Time Volunteers

Nombre / Name	Proyecto / Project	Horas / Hours	
Jessica Smith	Recogido de Reciclaje / Recycling Cleanup	30	
James Patrick	Jardín Comunitario / Community Garden	12	
Katherine Wilson	Sala de Lectura / Library	26	
Brian White	Brigada de limpieza / Cleaning Brigade	6	

Google Sheet of Recurring Volunteers

In addition to the "Form Responses 1" tab generated by the Google Form, other tabs in the Recurring Volunteers spreadsheet can be used for further analysis:

1. **"Validated Responses"** displays information about a volunteer and the program/project to which they contributed.

A	В	с	D
Timestamp	Nombre / Name	Proyecto / Project	Horas / Hours
4/24/2023 13:26:09	Jessica Smith	Recogido de Reciclaje / Recyclinç	3
4/24/2023 13:33:46	James Patrick	Jardín Comunitario / Community	1
4/24/2023 13:34:17	Katherine Wilson	Sala de Lectura / Library	2
4/24/2023 13:34:28	Brian White	Brigada de limpieza / Cleaning Br	
= 🖪 Form	Responses 1 👻 Validar	ed Responses 👻 Project Summ	naries 👻 Value

2. "Project Summaries" displays information about all programs/projects at Taller Comunidad La Goyco – adding a new row here with the name of the program/project, the person in charge and their email, and a description of the project will allow this data to be displayed on the Retool dashboard. Hours volunteered at each program/project are calculated automatically once the program/project's name is added to the tab.

A	В	с	D	E
Proyecto / Project	Persona encargada	Email	Descripción del proyecto	Total de horas
Jardín Comunitario / Community Garden	Cristina	-	-	2
Sala de Lectura / Library	Iliana	-	-	3
Administración / Administration	Eunice	-	-	
Salud / Health	Johanna			
Casa de la Plena / Plena Museum	Emanuel	-	-	2
Brigada de limpieza / Cleaning Brigade	Ricky	-	-	
Construcción / Construction	Pepin	-	-	1
Ambiental	Iliana			
Recogido de Reciclaje / Recycling Cleanup	Anna			3
		_		

3. "Value per Hour" displays information of the monetary value of each project/program at Taller Comunidad La Goyco – if desired, adding a new row with the name of the program/project will allow you to set the monetary value of that program/project; otherwise, that program/project's value will default to the value set in the "Other" row. This default value may be edited by editing the value in the "Other" row.

Proyecto / Project	Valor por hora	Fuente	
din Comunitario / Community	\$10	Ponga fuente aquí	
a de Lectura / Library	\$12	Ponga fuente aquí	
ninistración / Administration	\$13	Ponga fuente aquí	
ud / Health	\$16	Ponga fuente aquí	
a de la Plena / Plena Museun	\$15	Ponga fuente aquí	
ada de limpieza / Cleaning Br	\$18	Ponga fuente aquí	
strucción / Construction	\$9	Ponga fuente aquí	
er	\$9	Ponga fuente aquí	
	· · · · · · · · · · · · · · · · · · ·		
			▼

4. **"Summaries"** provides an automatic breakdown of every Program/Project submitted, so it is not necessary to edit this tab unless you would like to change the monetary value goal, which can be edited by changing the value in the "Meta" column.

Proyecto / Project	SUMA de Horas / Hours	Valor por hora	Total	Meta	Persona encargada	
Basketball	4	9	\$36	\$10,000	Anna	1
Brigada de limpieza / Cleaning Brigade	6	18	\$108		Cristina	3
Casa de la Plena / Plena Museum	21	15	\$315		Emanuel	1
Construcción / Construction	16	9	\$144		Iliana	2
lardín Comunitario / Community Garden	20	10	\$200		No encontrado	1
Recogido de Reciclaje / Recycling Cleanu	30	9	\$270		Pepin	3
Sala de Lectura / Library	31	12	\$372		Ricky	1
Grand Total	128	-	0		Grand Total	9

Retool

Using the Retool application, Taller Comunidad La Goyco administrators can view information about their volunteers and programs/projects in a central location, with tabs to view volunteer contact information and volunteer timesheets.

Buscar por nombre	Introduzca el nomb	re		
Buscar por intereses	Seleccione interés	es)	~	
Nombre		Correo electrónico		Número de teléfono
Jessica Smith		jsmith@example.com		555-555-1111
James Patrick		jpatrick@example.com		555-555-2222
Katherine Wilson		kwilson@example.com		555-555-3333

Volunteer Contact Info on the "Contactos" Tab

Contactos	Hoja de asistencia	Empresas		
Nombre		Proyecto	Horas	Persona encargada
Jessica Smith		Recogido de Recicl	30	Anna
James Patrick		Jardín Comunitario	12	Cristina
Katherine Wils	on	Sala de Lectura / Li	26	lliana
Brian White		Brigada de limpieza	6	Ricky

Volunteer Programs/Projects on the "Hoja de asistencia" Tab

Additionally, clicking on a volunteer's name will open a page displaying their information, alongside options to add a picture and a biography.

	THLEH COMMINAN LA GOVCO INC.	×
J	essica Smith	
Correo Electrónico: jsmith	@example.com	
Número de teléfono: 555-	555-1111	
Dirección: 100 Institute Ro	oad, Worcester, MA 01609	
Intereses: Sala de Lectura	/ Library	
¿Vive en Machuchal?: No		
¿Quiere unirse al WhatsAp	pp?: No	
Habilidades: Escritura, trad	ducción	
¿Cómo se enteró?: Vivo ao	quí	
Biografía	Introduzca biografía aquí	
Cambie foto	"Enlace directo" de https://postimages.org/es/	

Sample Retool Dashboard

TALLEH COMUNIDAD LA COYCO) I INC.	T	ablero de	e contro ¡Bienve	l para voluntarie enides!	S	
	Tot	al de voluntaries 5			Voluntarie con n Jessica S		
			Datos de v	roluntaries		Año 2023	~
Contactos Hoja de as	istencia Empresa	S					
Buscar por nombre	Introduzca el nomb	re					
Buscar por intereses	Seleccione interés	es) 🗸					
Nombre		Correo electrónico	1	Número de teléfono 🕇	Dirección	¿Qué le interesa?	-
Jessica Smith		jsmith@example.com	555-555-1111		100 Institute Road, Worcester, MA 01609	Sala de Lectura / Library	

Retool Components

Total Number of Volunteers

This component makes it easy to identify the number of volunteers in the organization.



Volunteer with the Most Hours

This component shows the volunteer who has volunteered the most across all programs in the organization.

Voluntarie con más horas Jessica Smith

Year Picker

This component controls the entire dashboard. The selected year acts as a filter for all components. Analytics (graphs and charts) will only display data from the selected year.



Volunteer Data

Data Entries

Jessica Smith	Recogido de Recicl	30
James Patrick	Jardín Comunitario	12
Katherine Wilson	Sala de Lectura / Li	26
Brian White	Brigada de limpieza	6

Figure 1

This component allows administrators to view all volunteers who have logged hours with their organization. Data entries include volunteer names, the project the volunteered on, and the number of hours completed (Figure 1).

Persona encargada	Email	Descripción del proyecto	Total de horas
Jenna Barnes	jbarnes@example.com	Tareas administrativas	30
Michael Smith	msmith@example.com	Plantar vegetales	12
Emily Holmes	eholmes@example.com	Ayudar con libros	26
Jason Phillips	jphillips@example.com	Salud de la comunidad	6

Figure 2

For a specific project or program the volunteer completed, administrators can also view data such as the person in charge of the project, the email of the person in charge, a description of the project, and the total number of hours that volunteers contributed to that project overall, etc. (Figure 2).

Goal

This component displays a monetary value goal for the organization based on volunteer hours contributed to each task. An organization can set these monetary goals.

Objetivo **\$10,000**

Progress to Goal

This component shows the progress made towards the goal on a dollar amount depending on the value per hour of each project.

Progreso al objetivo

11%

Projects

This component shows a table of projects and programs that an organization has available for volunteers. The columns in this table are:

- 1. Project name
- 2. Person in charge
- 3. Project description
- 4. Total hours contributed by volunteers to project

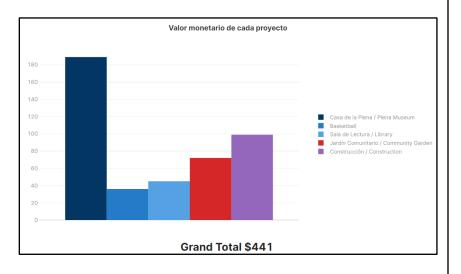
Proyecto / Project	Persona encargada
Jardín Comunitario / Community Garden	Michael Smith
Sala de Lectura / Library	Emily Holmes
Administración / Administration	Jenna Barnes
Salud / Health	Jason Phillips

Descripción del proyecto	Total de horas
Plantar vegetales	12
Ayudar con libros	26
Tareas administrativas	0
Salud de la comunidad	0

<u>Graphs</u>

Monetary Value of Projects

This graph shows the monetary value generated by volunteer efforts for each project based on the number of hours contributed and the monetary value per hour assigned to that project. Monetary value per hour rates are set by project and NGO administrators.



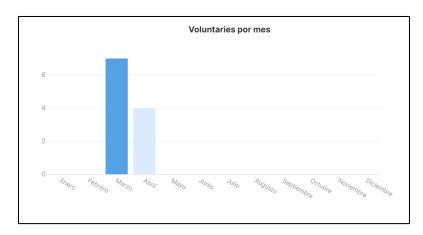
Percentage of Volunteers per Project

This graph shows a project-by-project breakdown of which projects attracted the greatest number of individual volunteers.



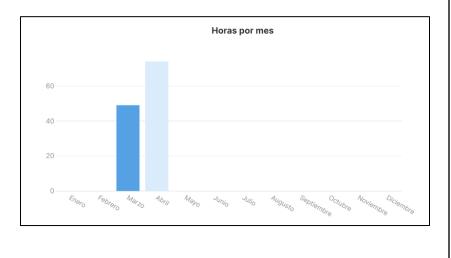
Volunteers per Month

This graph shows the number of volunteers per month across all projects.



Hours per Month

This graph shows the number of volunteer hours per month across all projects.



Adding a Component

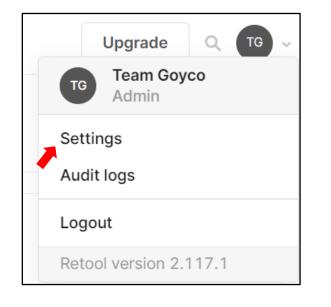
To modify the Retool application, you must have edit access, which depends on your Retool plan. Figure 3 shows four payment plans and services associated with each plan (as of 2023).

Free	Team	Business	Enterprise
Everything developers and small teams need to build full stack apps \$ 0 for up to 5 users per month	For teams that need more control and collaboration features \$10 per user per month	For businesses managing internal tooling across teams \$ 50 per user per month	For organizations with advanced security, control, and support needs Flexible pricing for your business
 Features: Build unlimited web and mobile apps Write and execute unlimited workflows BETA Connect apps to any database or API Store up to 5GB in a hosted PostgreSQL database 100+ production-ready Ul components Save, share, and reuse unlimited queries with the Retool Query Library Use custom React components 	 Everything in Free, plus Add unlimited users Configure Staging and Production environments for your resources Create and manage releases for your apps Revert to any previous version of an app with version history 	 Everything in Team, plus Unlimited development environments Custom permission groups for granular control over app access Built-in audit logs to track queries and user events Unlimited modules (reusable groups of components and queries) Add mobile-only access for \$10 per user per month 	 Everything in Team, plus Custom permission groups for granular control over app access Built-In audit logs to track queries and user events Integrate with Okta, Active Directory, or any other SAML or OpenID SSO provider Sync user groups between your IdP and Retool Git-based source control Spin up multiple instances as needed to mirror your SDLC Add custom branding to app navigation and headers Develop custom integrations with a Retool engineer Build, troubleshoot, and plan with dedicated support
Build for free →			Book a demo →

Figure 3

Adding New Users

Only users with administrator access can add a new user to the Retool dashboard. To add a new user, navigate to the "Users" page by clicking on your initials in the top right and selecting "Settings," then click the blue "Invite" button on the top right of the "Users" tab.



Users	All users (2)	~ Sort by Name	~ Q, Sear	ch for a user	Invite ···
Showing 2 standard users. Name	Permission	S	2FA	Last active	1
🖗 La Go (tallercomunidad	lagoyco@gma admin A	II Users		6 days ago	
Team Goyco (gr-pr23d-go	oyco@wpi.edu) admin A	II Users		a few seconds ago	

Adding a New Component Once you have been added you will be able to edit components on the Retool dashboard.

There are a few different sections you will see on the editor page:

- 1) Canvas
- 2) Left Panel
- 3) Right Panel
- 4) Query Panel

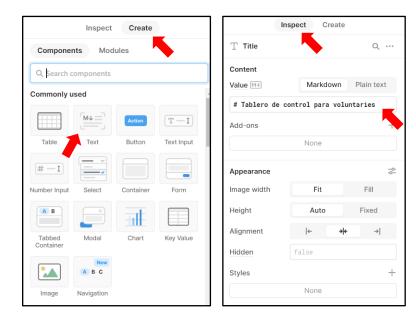
The Canvas shows what the dashboard will look like, and this is where you will arrange all the components:

COMUNICAD LA GOMED INC.	¡Bienvenides!
Total de voluntaries	• Voluntarie con más horas

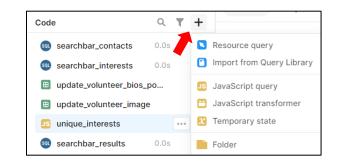
The Left Panel shows a list of all components on the page, including text, images, graphs, and tables:

Explorer	State
Components	
# Header	
🖾 Logo	
T Title	
T WelcomeText	

The Right Panel is where you will drag new components from (to be placed on the Canvas) as well as edit all components. For instance, you can click "Create" on the Right Panel to drag "Text" onto a spot on your Canvas, then click on "Inspect" to edit the text that appears on your dashboard.



The Query Panel is where you can edit the data that comes into Retool from Google Sheets. One scenario where you may want to edit the Query Panel is to connect a new Google Sheet to your dashboard. To do this, you will click the "+" on the bottom left of the dashboard, select "Resource query," and select "Google Sheets" as your "Resource" – Google will prompt you through connecting Retool to your Google Sheet.



Once connected, you will enter the name of your new data source in the "Spreadsheet" field, and the name of the tab within your data source as the "Sheet name."

Resource 🔲 Googl	e Sheets			Re-authenticate	Edit ~
Run query automatica	lly when inputs change				Ŷ
Action type	Read data from a spreadshe	et			Ŷ
Spreadsheet	Business Database	~] <i>f</i> x	Sheet name	RetoolDisplay	
				Leave blank to select the first sheet	

Altogether, the Retool dashboard will look like the following:

- 1. Canvas (top-middle)
- 2. Left Panel
- 3. Right Panel
- 4. Query Panel (bottom-middle)

Explorer State	Jer		Insp	oect Create
Components			T Title	Q
			Content	
🖾 Logo	Tablero de co	ontrol para voluntaries	Value M+	Markdown Plain text
T Title				
T WelcomeText	TALLER COMUNIDAD LA GOYCO INC.		# Tablero de con	ntrol para voluntaries
🛱 Sidebar		ienvenides!	Add-ons	+
	le le			None
_+ container8				
T text8			Appearance	φ [†]
⊥ text9	Total de voluntaries	Voluntarie con más horas	Image width	Fit Fill
_+ container12	11	Jessica Smith	Height	Auto Fixed
T text14	↓ All queries completed.		Alignment	← → ← →
T text15	General Response Advanced new_volun	teer_contacts	Under	
Code Q T +			Hidden	false
Temporary state (1)	Resource B New Volunteer Registration	Re-authenticate Edit •	Styles	+
new_volunteer_contacts 1.1s •••				None
JS filter_new_volunteer_c 0.0s	Run query automatically when inputs change	v		
validated_form_entries 1.3s				

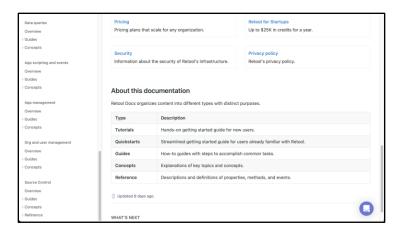
Additional resources to edit the Retool dashboard and its components, including how to add new graphs, charts, and tables, are available here on Retool University (<u>https://docs.retool.com/docs/retool-university</u>) as well as within the External Resources chapter of this document.

External Resources

The following resources are helpful for anyone wanting to dive deeper into Retool. Retool allows for many different types of data to be displayed and different ways to manipulate and visualize data.

General Retool Documentation -- <u>https://docs.retool.com/docs</u> Retool Query Documentation -- <u>https://docs.retool.com/docs/guery-library</u> How to use JavaScript with Retool -- <u>https://docs.retool.com/docs/javascript-overview</u> How to use SQL in Retool -- <u>https://docs.retool.com/docs/sql-in-retool</u> Retool University -- <u>https://docs.retool.com/docs/retool-university</u> Markdown Basics -- <u>https://www.markdownguide.org/basic-syntax/</u> JavaScript Tutorial -- <u>https://www.w3schools.com/is/</u> SQL Tutorial -- <u>https://www.w3schools.com/sgl/</u>

	Reference Components Integrations Community Sign in Book a demo Get started Q Search KK						
Get started Retool Docs Web apps Overview	Retool Docs	data.	Quickstart > Guides > Concepts Retool Embed	Data sources Integrate data sources like PostgreSQL, APIs, Salesforce, and more.	Data queries Write SQL queries and API requests to interact with data.	App scripting and events Use JavaScript anywhere, control app behavior, and respond to user actions.	
Quickstart 5 Tutorial > Guides > Concepts > Reference	Astart Retool enables you to quickly build internal tools powered by your data. Connect and query your databases and APIs, build web or mobile apps with rich user interfaces, automate complex tasks, and create database tables for your data in seconds. Cepts Evolore our products		Overview Quickstart > Concepts Self-hosted Retool Overview	Import and export apps, write user documentation, and release versions. at Org and user management Onboard users, control access, and configure sign-in options.		1: Source Control Manage changes to Retool apps using SCM providers like GitHub and GitLab.	
Retool Mobile Overview Quickstart	 Apps Build internal tools with rich user interfaces. 	Mobile Ship native apps to your mobile team in minutes.	 > SSO guides > Configuration guides > Concepts 	Additional resources			
> Tutorial > Guides > Concepts > Reference	< Workflows Visual workflow automation. Now with code. Power apps with a built-in PostgreSQL database. Data sources Overview	Data sources Overview	What's new at Retool Retool Blog Release notes and announcements. Tutorials, announcements, and e		ncements, and engineering deep cuts.		
Retool Workflows Overview Quickstart	 Embed Embedded, customer-facing apps. 	self-hosted Deploy Retool on your own infrastructure.	 API connection guides Database connection guides Configuration guides Concepts 	Community forum Product support, feature requests, and user discussions.		nplates idy-made templates for rapid development.	
> Guides			Data queries	Pricing	Retool for Start	ips	



The following resources are helpful for generating free QR codes that do not expire. Web Address: <u>https://www.the-qrcode-generator.com</u> Site Name: QR Code Generator



We found this website to be the most viable option for generating QR codes when compared to other free QR code generators. QR Code Generator stands out because the QR codes do not have an expiration date. Some free QR code generators we investigated had a set period the QR code would be accessible for until it was of no further use.