

Welcome to the module on getting started with AppSheet.



In this module, you'll learn how to get started by signing in to AppSheet using a cloud provider account from Google.

You will explore how to create your first app using the AppSheet Editor and how to connect it to your data source.

We'll briefly discuss the ways you can test and share your app, and do a lab to create a basic app using AppSheet.

Finally, we will review what was discussed in this module.



Let's start by first discussing how to sign in to AppSheet.



You can sign in to AppSheet using this url: <u>https://www.appsheet.com/Account/Login</u>

AppSheet								Return home
			Sigr	in with:				
			G	Google				
				Microsoft				
			4	Apple				
				Dropbox				
				Smartsheet				
			рак	Box				
			-	Salesforce				
			By signin service a	ig in, you agree to the term ind privacy policy.	s of			
	Company	Platform	Pricing	Solutions	Partners	Support	Account	
	About	Architecture	Terms of	Sample apps	Find a partner	Community	Login	
	Blog Careers	Data Sources Enterprise	service Privacy policy	Industries	Become a partner	Contact Us	Start for free	
	Contact us	Trust Center	Contact sales	Customers				

The AppSheet sign-in process uses third-party authentication with data providers.

AppSheet uses OAuth for authentication and must be granted consent to manage data that is stored with the provider.

For example, you can sign in with Google using your Google account or Workspace credentials.



Next, choose the Google account you want to sign in to Google with.

Note that for the labs in this course, an account will be provided.



During the sign-in process, you provide consent and agree to allow AppSheet to access and manage your files stored in Google Drive in your account.



You are then presented with a pop-up window that provides options to start creating an app. We'll discuss this in the next lesson in this module.



After you sign in, the *My apps* page of the AppSheet UI is displayed.

If you are just beginning with AppSheet and have not created any apps yet, the *My apps* page will be empty.

Otherwise, this page will list any apps that have been created.

AppSheet FREE						appsheetuserxyz@gmai	I.com My apps	My account	Sample apps	Help ~	More ~
	My Account ID: 4240235 appsheetuser. Plan: Free [+ Sign Out Sources Integrations Use this section to configur sources (eg: from Google D Account Sources These sources can be accessed + New Data Source	yz@gmail.com (Goo Policies Billing e additional data source rive and Dropbox) can I by all apps in this accou	gle) App Info tes for your account. T be used together in the nt.	Partner Collab his is a feature availal same app.	Settings ple to Premium/Plus a	nd Pro subscription plans	& User activit	iy le			
Ø	Company About Blog Careers Contact us	Platform Architecture Data Sources Enterprise Trust Center	Pricing Terms of service Privacy policy Contact sales	Solutions Sample apps Resources Industries Customers	Partners Find a partner Become a partner	Support Community Documentation Contact Us	Account My apps My account Logout				

From the *My apps* page, you can navigate to other areas in AppSheet to:

• manage your account and team

AppSheet FREE			appsheetuserxyz@gmail.com	My apps	My account	Sample apps	Help ~	More ~
	Copy and Customize Sample Apps Explore our library of sample apps to get inspiration on how AppSheet can help yo better. No matter which industry you work in, you'll find sample apps to help you s Get to know our cutting-edge features that will help power your processes. Collect monitor progress, report milestones, and much more. All sample apps are fully customizable, so you can make them your own.	u work ucceed. : data,						
	Q What app are you looking for?		Industry 👻 Function 👻	Feature	*			
	Simple Inventory Manager Update inventory and monitor levels		Kanban Board Track projects and related tasks in a kanban dashboard	Q Expl	ore			
	Project Tracker Track project tasks or issues in a kanban dashboard		Field Delivery Track pending, in progress and completed deliveries					
	Copy 9. Explore		🖉 Сору	Q Expl	ore			
	Order Deliveries Track order delivery status and send customers updates		Task Manager Track one-time and recurring tasks on mobile or desktop					
	Copy Q Explore		D Copy	Q Expl	ore			
0	Marketing Project Planner Track marketing campaign stages and budgets	-	Occupancy Tracker Track customer occupancy across different rooms or areas					

• access sample apps

AppSheet FREE			appsheetuserxyz@gmail.com	My apps	My account	Sample apps	Help ^	More ^
	Copy and Customize Sample Apps					Documentation AppSheet 101 (I	년 Udemy) 년	
	Explore our library of sample apps to get inspiration on how AppSheet can help yo better. No matter which industry you work in, you'll find sample apps to help you s Get to know our cutting-edge features that will help power your processes. Collec monitor processes report milestones and much more All earned agness are fully.	ou work succeed. t data,				Community For	um 🖸	
	customizable, so you can make them your own.					Contact Suppor	t 🛛	
	Q What app are you looking for?		Industry 👻 Function 👻	Feature	*			
	Simple Inventory Manager Update inventory and monitor levels	F	Kanban Board Track projects and related tasks in a kanban dashboard					
	Copy Q. Explore		🚨 Сору	Q. Explo	re			
	Project Tracker Track project tasks or issues in a kanban dashboard		Field Delivery Track pending, in progress and completed deliveries					
	D Copy Q Explore		🚨 Сору	Q Explo	re			
	Order Deliveries Track order delivery status and send customers updates		Task Manager Track one-time and recurring tasks on mobile or desktop					
	D Copy Q Explore		🛛 Сору	Q Explo	re			
Θ	Marketing Project Planner Track marketing campaign stages and budgets	-	Occupancy Tracker Track customer occupancy across different rooms or areas					
-								

• get help by reviewing product documentation and community articles

AppSheet FREE	appsheetuserxyz@gmail.com My apps My account Sample apps	Help v More ^
	Copy and Customize Sample Apps	Platform
	Explore our library of sample apps to get inspiration on how AppSheet can help you work better. No matter which industry you work in you'll find sample apps to be to help you succeed	Pricing
	Get to know maker maker maker by Get maker by Get maker by proceeded. Get to know our cutting-edge features that will help power your processes. Collect data, monitor progress, report milestones, and much more. All sample apps are fully	Enterprise
	customizable, so you can make them your own.	Blog
	Q. What app are you looking for? Feature 💌 Feature 💌	Solutions
		Customers
	Simple Inventory Manager Lindsa Inventory and models lands	Partners
		Support
	D Copy Q Explore	
	Project Tracker Track project tasks or issues in a kanban dashboard Field Delivery Track pending, in progress and completed deliveries	
	Copy Q Explore Copy Q Explore	
	Order Deliveries Task Manager Track order delivery status and send customers updates Track one-time and recurring tasks on mobile or desktop	
	Copy Q. Explore Copy Q. Explore	
•	Marketing Project Planner Track marketing campaign stages and budgets Occupancy Tracker Track customer occupancy across different rooms or areas	
	Const O Evolution	

• and much more.



In this lesson, we discuss how you can create your first app in AppSheet and connect it to a data source.

Building an app in AppSheet is an intuitive process.

You use the AppSheet UI, which includes an editor to build and configure your app.



There are 3 ways you can build your app using the AppSheet UI:

- The first option allows you to start by defining your app details and connecting an initial data set from your provider account.
- With the second option, if you have ideas for your app but no existing data, you can use natural language to describe your app functionality, and have the data schema and source automatically generated in your connected account.
- The third option allows you to start with a sample app.

In the AppSheet Editor, you have access to 50+ publicly available templates that help provide a foundation for common app use cases across a variety of business functions.



In this lesson, you will learn how to create an app by connecting to an existing Google sheet as the data source.

We've broken down this process into 6 steps:



To create an app by connecting to an existing Google Sheet, you must first prepare the sheet that you want to use.



Your AppSheet account always has access to a primary data source from the provider account that you initially used to sign in (for example Google Drive).

You can use spreadsheets and other documents from that account in your apps.



Here are some ways to prepare spreadsheets that you want to use with your app:

- Provide meaningful header columns in bold in the first row of your sheet.
 - Naming your columns appropriately helps AppSheet identify the type of data that is stored in each column.
- Make sure the data type format is the same for each cell in a column.
 - For example, if you have a column with dates, make sure that all of the cells in the column use the same date format.
- Orient the data in your sheet vertically with the header row at the top and data rows beneath it, so that a row is added to the sheet for new data.

 Email Address				
	First Name	Last Name	Phone -	—— Headers
Anton_Masood2017@womeona.net	Anton	Masood	3-483-482-7050	
Chloe_Liow5214@guentu.biz	Chloe	Liow	1-000-320-1427	
Alexis_Vidal9864@infotech44.tech	Alexis	Vidal	7-111-532-2628	
Aumi_Ichiki8536@twace.org	Aumi	Ichiki	2-287-700-0378	
Emily_Hopper3383@jiman.org	Emily	Hopper	5-030-532-7662	
Dalia_Patel6309@typill.biz	Dalia	Patel	3-601-711-6016	
Eliza_Elmsley2528@zorer.org	Eliza	Elmsley	8-684-264-8810	
Everett_Foster8349@guentu.biz	Everett	Foster	1-172-713-3850	
Hank Byrne4186@iatim.tech	Hank	Byrne	4-415-515-5212	
	Alexis_Vidal9864@infotech44.tech Aumi_lchiki8536@twace.org Emily_Hopper3383@jiman.org Dalia_Patel6309@typill.biz Eliza_Elmsley2528@zorer.org Everett_Foster8349@guentu.biz Hank Byrne4186@iatim.tech	Alexis_Vidal9864@infotech44.tech Alexis Aumi_tchiki8536@twace.org Aumi Emily_Hopper3383@jiman.org Emily Dalia_Patel6309@typill.biz Dalia Eliza_Elmsley2528@zore.org Eliza Everett_Foster8349@guentu.biz Everett Hank_Bvrne4166@iatim.tech Hank	Alexis_Vidal9864@infotech44.tech Alexis Vidal Aumi_lchiki8536@twace.org Aumi Ichiki Emily_Hopper3383@jiman.org Emily Hopper Dalia_Patel6309@typill.biz Dalia Patel Eliza_Elmsley2528@zorer.org Eliza Elmsley Everett_Foster8349@guentu.biz Everett Foster Hank Bvrme4186@iatim.tech Hank Bvrme	Alexis_Vidal9864@infotech44.tech Alexis Vidal 7-111-532-2628 Aumi_lchiki8536@twace.org Aumi Ichiki 2-287-700-0378 Emily_Hopper3383@jiman.org Emily Hopper 5-030-532-7662 Dalia_Patel6309@typill.biz Dalia Patel 3-601-711-6016 Eliza_Elmsley2528@zorer.org Eliza Elmsley 8-684-264-8810 Everett_Foster8349@guentu.biz Everett Foster 1-172-713-3850 Hank_Bvrme4186@itatim_tech Hank Bvrme 4-415-515-5212

To make sure AppSheet can read your data correctly, set up your data with column headers in the first row,

IDEmail AddressFirst NameLast NamePhoneROWS1Anton_Masood2017@womeona.netAntonMasood3:483:482-7050Of data2Chloe_Liow5214@guentu.bizChloeLiow1:000-320:1427Of data3Alexis_Vidal9864@infotech44.techAlexisVidal7:111-532:2628Of data4Aumi_Ichliki853@@twace.orgAumiIchliki2:287.700-0378Of data5Emily_Hopper3383@jiman.orgEmilyHopper5:030:532.7662Of6Dalia_Patel6309@typill.bizDaliaPatel3:601.711:6016Fiza_Elmsley2528@zore.orgEliza8Everett_Foster8349@guentu.bizEverettFoster1:172-713:3850P9Hank_Byrne4186@iatim.techHankByrne4:415-515-5212Data	_	A	В	С	D	E	P
1 Anton_Masood2017@womeona.net Anton Masood 3483-482-7050 2 Chloe_Liow5214@guentu.biz Chloe Liow 1-000-320-1427 3 Alexis_Vidal9864@infotech44.tech Alexis Vidal 7-111-532-2628 4 Aumi_Ichikl8536@twace.org Aumi Ichiki 2-287-700-0378 5 Emily_Hopper3383@jiman.org Emily Hopper 5-030-532-7662 6 Dalia_Patel6309@typill.biz Dalia Patel 3-601-711-6016 7 Eliza_Elmsley2528@zore.org Eliza Elmsley 8-684-264-8810 8 Everett_Foster8349@guentu.biz Everett Foster 1-172-713-3850 9 Hank_Byrne4186@iatim.tech Hank Byrne 4-415-515-5212		ID	Email Address	First Name	Last Name	Phone	Rows
2 Chloe_Liow5214@guentu.biz Chloe Liow 1-000-320-1427 3 Alexis_Vidal9864@infotech44.tech Alexis Vidal 7-111-532-2628 4 Aumi_Ichiki8536@twace.org Aumi Ichiki 2-287-700-0378 5 Emily_Hopper3383@jiman.org Emily Hopper 5-030-532-7662 6 Dalia_Patel6309@typill.biz Dalia Patel 3-601-711-6016 7 Eliza_Elmsley2528@zore.org Eliza Elmsley 8-684-264-8810 8 Everett_Foster8349@guentu.biz Everett Foster 1-172-713-3850 9 Hank_Byrne4186@iatim.tech Hank Byrne 4-415-515-5212	5	1	Anton_Masood2017@womeona.net	Anton	Masood	3-483-482-7050	of data
3Alexis_vidal9864@infotech44.techAlexisVidal7-111-532-26284Aumi_Ichiki8536@twace.orgAumiIchiki2-287-700-03785Emily_Hopper3383@jiman.orgEmilyHopper5-030-532-76626Dalia_Patel6309@typill.bizDaliaPatel3-601-711-60167Eliza_Elmsley2528@zorer.orgElizaElmsley8-684-264-88108Everett_Foster8349@guentu.bizEverettFoster1-172-713-38509Hank_Byrne4186@iatim.techHankByrne4-415-515-5212	ŝ.	2	Chloe_Liow5214@guentu.biz	Chloe	Liow	1-000-320-1427	Ol uata
4Aumi_Ichiki8536@twace.orgAumiIchiki2-287-700-03785Emily_Hopper3383@jiman.orgEmilyHopper5-030-532-76626Dalia_Patel6309@typil.bizDaliaPatel3-601-711-60167Eliza_Elmsley2528@zore.orgElizaElmsley8-684-264-88108Everett_Foster8349@guentu.bizEverettFoster1-172-713-38509Hank_Byrne4186@iatim.techHankByrne4-415-515-5212	ŝ.	3	Alexis_Vidal9864@infotech44.tech	Alexis	Vidal	7-111-532-2628	
5Emily_Hopper3383@jiman.orgEmilyHopper5-030-532-76626Dalia_Patel6309@typill.bizDaliaPatel3-601-711-60167Eliza_Elmsley2528@zorer.orgElizaElmsley8-684-264-88108Everett_Foster8349@guentu.bizEverettFoster1-172-713-38509Hank_Byrne4186@iatim.techHankByrne4-415-515-5212	5	4	Aumi_Ichiki8536@twace.org	Aumi	Ichiki	2-287-700-0378	
6Dalia_Patel6309@typill.bizDaliaPatel3-601-711-60167Eliza_Elmsley2528@zorer.orgElizaElmsley8-684-264-88108Everett_Foster8349@guentu.bizEverettFoster1-172-713-38509Hank_Byrne4186@iatim.techHankByrne4-415-515-5212	6	5	Emily_Hopper3383@jiman.org	Emily	Hopper	5-030-532-7662	
7Eliza_Elmsley2528@zorer.orgElizaElmsley8-684-264-88108Everett_Foster8349@guentu.bizEverettFoster1-172-713-38509Hank_Byrne4186@iatim.techHankByrne4-415-515-5212		6	Dalia_Patel6309@typill.biz	Dalia	Patel	3-601-711-6016	
8 Everett_Foster Foster 1-172-713-3850 9 Hank_Byrne4186@iatim.tech Hank Byrne 4-415-515-5212	3	7	Eliza_Elmsley2528@zorer.org	Eliza	Elmsley	8-684-264-8810	
9 Hank_Byrne4186@iatim.tech Hank Byrne 4-415-515-5212	}	8	Everett_Foster8349@guentu.biz	Everett	Foster	1-172-713-3850	
	0	9	Hank Byrne4186@iatim.tech	Hank	Byrne	4-415-515-5212	

.. and rows of data underneath.

We will discuss preparing and leveraging data for your apps in more detail in a later module.



After your data is set up, you need to connect it to AppSheet.



AppSheet does not host your data, but does interact with it based on how you set up your app.

You can connect AppSheet to your data in one of three ways:

AppSheet FREE						appsheetuserxyz@gmail	.com My apps	My account	Sample apps	Help ~	More ~
	My Account D: 4240235 appsheetuseri Plan: Free C+ Sign Out Sources Integrations Use this section to configur sources (eg: from Google D Account Sources These sources can be accessed + New Data Source	yz@gmail.com (Goog Policies Billing e additional data sourc rive and Dropbox) can d by all apps in this accou	gle) 1 App info 285 for your account. T be used together in th nt.	Partner Collab his is a feature availa e same app.	Settings ble to Premium/Plus a	nd Pro subscription plans	& User activit	iy le			
₽	Company About Blog Careers Contact us	Platform Architecture Data Sources Enterprise Trust Center	Pricing Terms of service Privacy policy Contact sales	Solutions Sample apps Resources Industries Customers	Partners Find a partner Become a partner	Support Community Documentation Contact Us	Account My apps My account Logout				

Your first option is to connect your data source and set up your account from the My account tab in the AppSheet UI.

AppSheet FREE	appsheetuserxyz@gmail.com	My apps	My account	Sample apps	Help ~	More ~
Add a new data source						
Data source name						
G Google						
Microsoft						
😻 Dropbox						
Smartsheet						
► Airtable						
X Apigee						
box Box						
Cloud Database						
On-premises Database						
Google Calendar						
OData (Beta)						
Salesforce						
Access to your cloud data						
AppSheet accesses ONLY the files/data you o Your apps are accessible ONLY to users you o	hoose					

To set up your data source from a cloud provider account, you must first sign in to that account using your account credentials.

AppSheet supports many data source cloud providers, as shown here.



Another way you can connect to a new data source is by going to your My Apps page and clicking "Make a new app."



By starting with your own data, you can configure the app with a data source.

You can select a data source from your existing cloud provider account or add a new data source from a different cloud provider.

To use a different cloud provider, you follow the same process as discussed previously to sign in to the cloud provider account and select the data source for the app.

~ @ P	100% - £ % .0, .00	E Create a form	- B <i>I</i> ≎ <u>A</u> 🔶 ⊞	58 - I E	<u>+</u> + + + 17 +	⇔ 🖈 🖶	Ϋ - Σ -					^
- <i>f</i> x		📀 AppSheet 🔹 🕨	Create an app									
A ID 1 2	B Email Address Anton_Masood2017@womeona Chloe_Liow5214@guentu.biz	<> Script editor → Macros ►	View sample apps Learn how to create apps	G	н	1	J	ĸ	L	м	N	0
		Spelling ►										
		✓ Enable autocomplete										
		Notification rules Protect the sheet										
		† Accessibility settings										
		Activity dashboard										
		_										
_						_						())

Finally, if you use Google Sheets, you can connect your data to AppSheet directly from your Sheet by clicking Tools > AppSheet > Create an app.



After you have connected your data, you can add capabilities to your app by using the AppSheet Editor.



These capabilities include:

- Interacting with data via the app.
- Performing actions by using app behaviors.
- Viewing data in the app through different types of views.
- Running automated processes in response to events.
- And much more...



To modify the capabilities of the app by using the AppSheet editor, go to the main navigation menu on the left side of the editor, where you'll see several menu items.

By default, the editor displays the contents of these menu items in the center section of the UI.

Let's review each of these options:



• Info - lets you see and manage the technical details of your app.



• **Data** - lets you define how AppSheet is connected to your data.



• **UX** - lets you create and customize views, along with the look and feel of your app.



• **Behavior** - lets you create buttons for navigating in the app, initiating external links, and triggering data workflows.



• **Automation** - enables you to define automated processes to run in response to certain events.


• **Security** - enables you to define security features for your app, such as requiring users to sign in.



• **Intelligence** - lets you incorporate machine learning into your app, such as sentiment analysis, predictive analytics, and optical character recognition.

Ō	Info	
	Data	
	UX	
~	Behavior	
ŵ	Automation	
۲	Security	
Q	Intelligence	
6	Manager	Manage
	Manage	Manage
Q	Search for help	usage and performance, and more.

• Under '*Manage*' you can manage app versions, monitor usage and performance, and more.

Not Deployed	Views Brand Format Ru	les Opt	ions	Localize												Ø
Home	Hew View	eck					Сору	Delete	\$		= 🍙	New View	N	Q		C
Info Data	View name	New View										Anton Mase	bod			*
UX	For this data	contacto										Chlos Liow	ô ď		2	•
Behavior	Which table or slice to display.	View Definitio	2n								Ω	2	m 12		.1	. 1
Automation														-	-	<u> </u>
Security	View type What kind of view this is.	calendar	deck	table	B gallery	detail	⊘ map	tl. chart			2	Alexis Vida				0
Intelligence			в	0						×		Aumi Ichiki			-	-
Manage		dashboard	form	onboarding	card							4	n r		2	
Search for help	Position Where the button to access this view is located.	left most	left	center	right	right most	men	u ref			6	Emily Hopp	er			
													Î 🗹	\geq	2	
	View Options								^			Dalia Patel				÷
	Sort by Sort the rows by one or more columns.	Add									in contacts	New View	com	ii panies	Shi	рТо
	Group by										Preview App	as				

Finally, whenever you make edits to your app, the Save button in the top right corner turns blue.

Make sure you click it so your edits are saved.



The next steps show how you can implement some of these capabilities in your app.

We first start with specifying how your data is used by the app.



To specify how your data is being used, go to the Data tab.



By default, the AppSheet editor lists the data source or table that was used to create the app (here called "Customer details").

To add additional tables to your app, click on **New Table**.



To select a data source from your existing cloud provider, for example Google Drive as shown here, click the appropriate button and select the file.

You can also add a data source from a new cloud provider account by clicking the Add button and following the steps to sign in to your account and choose your file.



To access the list of columns that make up the table, click on the Columns tab.

Vew App		0	E +2 5 ♂ SAVE	• S :
Q Not Deployed	Tables Columns Slices User Settings Options			ß
 Home Info Data 	To add or remove columns in a table, change the structure of the spreadsheet and then regenerate the appropriate column structure 📭 Q Search table columns	8	Anton Masood	Q 🗹 C'
UX -⊰ Behavior	Companies 9 columns: ⊘ID © Company Name Contacts 10 columns: ⊘ID ©_ComputedName		Chloe Liow 2 2	<u>ع ی م</u>
 Automation Security Intelligence 	ShipTo 8 columns: ØID © Product Name	•	Alexis Vidal 3	390
Manage Search for help			Administrative 4 Emily Hopper 5	2 J 9
			Dalia Patel 6	≥ <i>3</i> +
			i≡ i≡ m contacts New View compa Preview App as @ student-03-6ab677edb849@	nies ShipTo
P			View: New View Table: contacts	Contract of Contra

Here you can click the table name to see a list of columns that make up the table.

Not Deployed	Tables Columns Slices	User Settings	Optio	ins													Z
Home	To add or remove columns in a table, cha	inge the structure of the s	preadsh	neet and the	en regenerate	the appropriate column structure						1	= 0	New View		Q	Ø C
Info	Q Search table columns										8			Anton Masor	d		
Data														1			, .
UX Behavior	Companies 9 columns: ⊘ID © Company	Name										-	Ω	Chloe Liow 2			
Automation Security	i≡ contacts 10 columns: ⊘ID ⊙Photo						View Table	Add Virtual Colu	mn Regener	rate Structure	•		<u>,</u>	Alexis Vidal		≥.	
Intelligence	NAME	TYPE		KEY?	LABEL?	FORMULA	SHOW?	EDITABLE?	REQUIRE?	INITIAL VALUE		-	a i Ait		í 🖾	21	0
Manage	_RowNumber	Number	*			=				=			1	4 4	i B'	⊠ ,	, .
Search for help	2 / ID	Number	•			=				=		×	Gen	Emily Hoppe	r		
	Email Address	Email	. *			=				=			No.	i i	i 🕑	⊠ .	, .
	 First Name 	Name	-			=				=			Bay	Dalia Patel 6			(+)
	s 🖉 Last Name	Name	•			=				=			IE contacts	IE New View	compa	unies	ShipTo
	6 / Phone	Phone	*			=				=		P	eview App	as			
	7 🖉 Last Contacted	DateTime				=				=		V	Student Stu	nt-03-6ab677e	edb849@	oqwikl	Apply
	° 🖉 Company ID	Ref	*			=				=							
	° 🖉 Photo	Image	*			=				=							
	ComputedName	Name	*			= CONCATENATE([First Na				=							

The column structure of your connected data determines the features that can be added to your app.

For example, if you want to capture and display images in your app, there must be a column in your table whose type is set as **Image**.

Q Not Deployed	Tables Columns Slices	User Settings	Optic	ons									•				
) Home	To add or remove columns in a table, chan	nge the structure of the	spreads	heet and the	en regenerate	the appropriate column structure							= (New View		Q	ØĈ
) Info	Q. Search table columns										8			Anton Masoor			
Data														1	ß	◙.	, ,
] UX Behavior	9 columns: @ID © Company N	lame											Ω	Chloe Liow 2	R.		, .
Automation Security	i⊟ contacts 10 columns: ⊘ID © Photo						View Table	Add Virtual Colur	mn Regener	rate Structure	•			Alexis Vidal 3		_	
2 Intelligence	NAME	TYPE		KEY?	LABEL?	FORMULA	SHOW?	EDITABLE?	REQUIRE?	INITIAL VALUE			- 1 /44			21	0
Manage	_RowNumber	Number	٣			=				=			1	4 1	ľ	≤.	, ,
3 Search for help	2 / ID	Number	-			=				=		÷	6	Emily Hopper			
	email Address	Email				=				=			No.	a a	ľ	⊠ .	
	🕯 🖉 First Name	Name	-			-				=				Dalia Patel 6			Ð,
	s 🖉 Last Name	Name	*			-				=			im contacts	IE New View	compan	ies	ShipTo
	6 / Phone	Phone	*			=				=			Preview App	i as			
	7 🖉 Last Contacted	DateTime	*			=				=			stude	nt-03-6ab677e	1b849@	qwikl	Apply
	° 🖉 Company ID	Ref				-				=							
	9 Photo	Image	*			-				=							
	ComputedName	Name	÷			= CONCATENATE([First Na				=							

Here are two other examples of the properties you can set:

• If you want a table column's value to be displayed in your app, select the 'show' box for that column.

2 Not Depayed totic Columnic Sector C <t< th=""><th>7 New App</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(</th><th>) E +2</th><th>250</th><th>SAVE 👻</th><th>S :</th></t<>	7 New App										() E +2	250	SAVE 👻	S :
a index To do the conclusion is a table, change the table, table of the segned the classes the table, table of the segned table of the segned table of the segned table, table of table of table of table. The segned table of table of table of table of table of table, table of table of table of table of table, table of tabl	Q Not Deployed	Tables Columns Slices	User Settings	Options									2		
0 Mode 0	Home	To add or remove columns in a table, cha	inge the structure of the spr	eadsheet an	d then regenerate	the appropriate column structure						=	💉 contac	ts	Q C
3 Data 9 UK 9 UK 9 Automation 9 Automation 9 Environe 9) Info	Q Search table columns									8				*
I X Behavior Automation Security Intelligence MARGE 2 D Manage 2 D 2 D Manage 2 D 2 D Manage Number 2 D Manage Final Address Final Address Final 2 D Manage Final Address Final Address Final 2 D Manage Final Address Final Address Final Phone Phone Phone Phone Phone Phone Phone Final	Data												Alexis		
Ausmannian Image) UX Behavior	Companies 9 columns: ⊘ID © Company	Name									8	Anton		
Intelligence NAME TYPE KEY LABLEY FOMULA BHOW EDTABLEY REUREY NUTLA LAULE Menoge 	Automation Security	i≡ contacts 10 columns: ⊘ID © Photo					View Table	Add Virtual Colu	mn Regener	rate Structure	•		Aumi		1
Manage JownNumber Number <li< td=""><td>Intelligence</td><td>NAME</td><td>ТҮРЕ</td><td>KEY?</td><td>LABEL?</td><td>FORMULA</td><td>SHOW?</td><td>EDITABLE?</td><td>REQUIRE?</td><td>INITIAL VALUE</td><td></td><td></td><td>h</td><td></td><td></td></li<>	Intelligence	NAME	ТҮРЕ	KEY?	LABEL?	FORMULA	SHOW?	EDITABLE?	REQUIRE?	INITIAL VALUE			h		
Sarach for help ¹	Manage	_RowNumber	Number	-		=				=			Chloe		
* Enail - <td>Search for help</td> <td>2 / ID</td> <td>Number</td> <td>•</td> <td></td> <td>=</td> <td></td> <td></td> <td></td> <td>=</td> <td></td> <td></td> <td>Chris</td> <td></td> <td></td>	Search for help	2 / ID	Number	•		=				=			Chris		
* First Name Name - <		 Email Address 	Email	•		=				=					
¹ Last Name Name ¹ O		 First Name 	Name	•		=				=		 Image: A set of the set of the	Dalia		(+)
* Phone Phone •		s 🖉 Last Name	Name	•		=				=		00	IE ntacts	companies	ShipTo
² ² Last Contacted Date Time ² Company ID Ref ² Company ID Ref ² ² ² Company ID Ref ² ² ² Company ID Ref ²		° / Phone	Phone	-		=		\checkmark		=		Preview A	App as		
^c		7 🖉 Last Contacted	DateTime	•		=				=		© stu View: cont	dent-03-6ab6	577edb849@qwikl	Apply
Photo Image Image <th< td=""><td></td><td>° 🖉 Company ID</td><td>Ref</td><td>•</td><td></td><td>=</td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td><td></td></th<>		° 🖉 Company ID	Ref	•		=				=					
ComputedName Name ▼ □ ♥ = CONCATENATE([First Na ♥ □ =		° / Photo	Image	-		=				=					
		ComputedName	Name	-		= CONCATENATE([First Na				=					

• For data that you do not want displayed in the app, clear the 'show' box.

•											^c			
Q Not Deployed	Tables Columns Slices	User Settings	Optio	ns										Ø
Home	To add or remove columns in a table, char	nge the structure of the :	spreadsh	eet and the	en regenerate	the appropriate column structure						= ~	contacts	QC
Info	Q. Search table columns										8			*
Data													Alexis	:
UX Behavior	Companies 9 columna: DID © Company N	lame											Anton	
Automation Security	IE contacts 10 columns: ⊘ID © Photo						View Table	Add Virtual Colur	nn Regener	ate Structure	;		Aumi	
Intelligence	NAME	TYPE		KEY?	LABEL?	FORMULA	SHOW?	EDITABLE?	REQUIRE?	INITIAL VALUE		0		
Manage	_RowNumber	Number	*			=				=			Chloe	
Search for help	2 / ID	Number	•			=				=			Chris	
	 Email Address 	Email	-			=				=				
	🍐 🏉 First Name	Name	-			=				=			Dalia	(+)
	s 🖉 Last Name	Name	*			=				=		i contact	ts companies	ShipTo
	° / Phone	Phone	*			=				=		Preview App	as	
	7 🖉 Last Contacted	DateTime	*			=				=		studen	nt-03-6ab677edb849@qwi	d Apply
	° 🖉 Company ID	Ref				=				=				
	° 🖉 Photo	Image	•			=				=				
	10 ComputedName	Name	*			= CONCATENATE([First Na				=				

• **Type** lets you specify what type of data is in each column.

For example, if you have an *address* column in your table, you need to make sure that the column type is set to **Address**.

We will describe setting up your table columns in the next module.

Vew App					0	E to c SAVE	
& Not Deployed	Tables Columns Silces User Sett	contacts : First Name		Done 0		0 0	Ø
Home Info	To add or remove columns in a table, change the structur	Column name Column name	First Name	_		= A contacts	Q (2'
E Data		Show? Is this column visible in the app? You can also provide a 'Show_If' expression to decide.		A	0	Alexis	:
Behavior Automation	ecompanies 9 columna: ØID © Company Name	Type Column data type	Name			Anton	:
Security	i contacts 10 columns: ØID © Photo	Type Details		te Structure	•	Aumi	3
Manage	NAME TYPE	Maximum length	- +	INITIAL VALU		Chloe	:
	2 / ID Number	Minimum length	- +	-		Chris	
	Email Address Email	Data Validity		-		Dalia	÷
	Last Name Name	Auto Compute Update Behavior				i a contacts companies	ShipTo
	Phone Phone	Display		~ =		Preview App as student-03-6ab677edb849@qr	wiki Apply
	Last Contacted DateTil Company ID Ref	Other Properties		-		View: contacts Table: contacts	
	Photo Image			=			
P	ComputedName Name			=			
					1		

By clicking on the pencil icon to the left of each column, you can modify the properties of the column to change how the app interacts with the data that is stored in the column.



Let's discuss how to create views and customize the look and feel of your app.



AppSheet makes it easy to create views for your app by providing ready-to-use view templates that you can customize.

Each page you see in your app is known as a View. Note that AppSheet may suggest Views based on the data that is connected to the app. You might want these views in your app, but if not, you can use different types of views.

You will learn how to use views in later modules in this course.

To list existing views of the app, go to the UX tab (UX stands for user experience, or how people interact with your app).

Vew App		Ċ	⑦ ▣ +≗ 5 ♂ SAVE ▼ S :
Not Deployed	Views Brand Format Rules Options Localize		
🔒 Home	Present views of your data to your users. 📋		= 🛹 contacts Q C
() Info	+		
E Data	NewView		Alexis :
ux Ux	Q. Search views	8	
[∗] Behavior			Anton :
Automation	Primary Views		Auroi 1
Security	mese viens are accessed via the bottom bai of the app. viens that are used often should be in this section.		Auni
Q Intelligence	right data companies type: card		Chloe :
Ø Manage	ShipTo		
Q Search for help	right data: shipTo type form		Chris :
	Menu Views These views are accessed via the menu at the top left of the app. Views that are used only occasionally should be in this section.		Dalia 🕂
	Business Addresses data: companies type: map		contacts companies ShipTo
P	6 Show system views		View: contacts Table: contacts

This tab lists the app's primary views that are available to users when interacting with the app. Other system views are also listed in this tab.

To create a new view for your app, in the *Views* section click **New View**.

	View Death Pormat Ru IIII New View Center data: contacts type: d View name The unique name for this view. This view. data: contacts type: d	eck New View	10115	Locanze			Сору	De	lete 🗘			New V Anton M	/iew Masood	ß	Q 1	2	C
avior	For this data Which table or slice to display.	contacts View Definitio	• n									Chloe L 2	iow	ľ	М	و ر	
curity elligence inage	What kind of view this is.	calendar	deck	table	gallery card	A detail	⊘ map	char	l t	×		Aumi Ic 4	j 🗷	M	,		0
arch for help	Position Where the button to access this view is located.	left most	left	center	right	right most	mer	nu	ref			Emily H	opper	ľ	M	و د	
	View Options Sort by Sort the rows by one or more columns.	Add							^		in contacts	Dalia Pa 6	atel View	compar	nies	C+	•
	Group by Group rows by the values in one or	Add									Preview App	as	(77.11				

E New View	teck	Copy Delete \$	
View name The unique name for this view.	New View		Update the view name.
For this data Which table or slice to display.	contacts 👻		
View type What kind of view this is.	Calendar E E galery E E III galery III E III III atstboard Form orboarding ard	detail Map Chart	
Position Where the button to access this view is located.	left most left center right	right most menu ref	
View Options Sort by Sort the rows by one or more columns.	Add	^	

From here, you can:

• Update the View Name.

Very name The unique name for this view. Very name Wich table or silve to display. Very Definition Very Options Add <	Preference Preference Preferenc	IE New View	le e le					Сору	De	ete 🗘	
Indequation to the row were For this data When halfs or sides to display. View Definition Select which data source the view should use. View Definition Output: View Options Add Coupsely Graup by Graup by Graup by Graup by Graup power by the values in one or more Inter or by one or more Coupsel Add Coupsel Add Coupsel C	It unque hante for this use. For this data Witch that for display: View Definition View Definition View 1 for dist is: Image: Control Petition Where the block to decess this Petition View 2 for control Outcome for use or one control Add Output the block text is not one or more of their columns. So their columns. Output the block text is not one or more of their columns.	View name	New View								
View type What kind of view this is. Image: Control in the context of the conte	View type Wink kund di viewe this is. Image:	For this data Which table or slice to display.	contacts	•							Select which data source the view
What kind of view this is. Calendo dock <	What kind of view this is: about the sale of the columns. 	View type	View Definition	n 							should use.
Lit Lit Lit dearboard fum oncounding Position left most left Where the botton to access this left center View located. right right View Options Sort by Sort by Columns. Add Group for Add	Line Image: Concentral of an accounting	What kind of view this is.	calendar	deck	table	gallery	detail	map	th		
Control Left most Left center right right most menu ref Whene the buttos to access this view is braced. Intervent to access this Intervent to access this Intervent to access this Intervent to access this View Options Intervent to access this Intervent to access this Intervent to access this Intervent to access this Sort by Sort by Sort by Group to by Minup rome by the values in one or more of their columns. Add Intervent to access this Intervent to access this	Position ref Where the builtors to access this view is located. I eff most i left counter right right most menu ref View Options Add Sort by Sort he ywas by one or more columns. Add Group toy more of their columns. Add	Berline	dashboard	form	onboarding	card					
View Options ^ Sort by Sort her was by one or more columns. Group forms ther values in one or more of their columns. Add	View Options Sort Me rows by one or more Add Group rope by Group rope by the values in one or more of their columns.	Where the button to access this view is located.	left most	left	center	right	right mos	t mer	nu	ref	
Sort by yos or more Add columns. Group by Group rows by the values in one or more of their columns. Add	Sort by Add Sort the vacue by one or more Add Group Dy Add Group the values in one or Add	View Options								-	
Group by Droup ons the values in one or Add more of their columns.	Group by Group rows by the values in one or more of their columns. Add	Sort by Sort the rows by one or more columns.	Add								
		Group by Group rows by the values in one or more of their columns.	Add								

• Select which *data source* the view should use.

E New View center data: contacts type: de	ck					Сору		Delete	~	
View name The unique name for this view.	New View									
For this data Which table or slice to display.	contacts View Definitio	*								
View type What kind of view this is.	Ö	E	E	⊞		0	[ıl.	•	Choose the type of view.
	calendar Ital dashboard	deck	table	gallery	detail	map	d	hart		
Position Where the button to access this view is located.	left most	left	center	right	right mos	t me	nu	ref		
View Options									^	
Sort by Sort the rows by one or more columns.	Add									
Group by Group rows by the values in one or more of their columns	Add									

• Choose the *type* of view - such as *Calendar, Deck, Map, Form, Chart, and Card*, to name a few. You can play around with each view to see which one works best.

E New View center data: contacts type: d	leck					Сору	Delete	\$	
View name The unique name for this view.	New View								
For this data Which table or slice to display.	contacts	w							
	View Definitio	m							
View type What kind of view this is.	calendar		E table			0	il.		
			0						
Position	dashboard	torm	onboarding	card					
Where the button to access this view is located.	left most	left	center	right	right most	men	nu ret		Set the view position.
View Options								^	
Sort by Sort the rows by one or more	Add								
Group by									
Group rows by the values in one or more of their columns.	Add								

- Choose how the view can be accessed by setting its *Position*:
 - Along the main navigation bar at the bottom of your app
 - Via the menu in the top left corner of your app
 - By a reference from another view using the *ref* position

Hew View center data: contacts type	deck					Сору	Delete	\$	
View name The unique name for this view.	New View								
For this data Which table or slice to display.	contacts	*							
View type	View Definitio	<u>n</u>							
What kind of view this is.	calendar	eck (table	gallery	detail	⊘ map	tl. chart		
	dashboard	form		card					
Position Where the button to access this view is located.	left most	left	center	right	right mos	t men	u re		
View Options								^	
Sort by Sort the rows by one or more columns.	Add							-	— Specify view options.
Group by Group rows by the values in one o more of their columns.	r Add								

• In the View Options section, you can specify how to sort and group the data, and other display options.



To customize your app's look and feel, use the Brand, Format Rules, Options and Localize tabs, where you can specify your theme, colors, logos, and more!

We will discuss this in more detail in a later module of this course.



Finally, you can create custom actions for your app.



The *Behavior* tab in the AppSheet editor lets you set up custom buttons and actions that can be used in a wide variety of ways.



These can be set by clicking on **New Action**.

Not Deployed	Actions Workflow	Reports Of				Z			
Home	contacts					< 💉	Details	ā Q	C' :
) Info	+ Add system generated		Call Phone (Phone) system generated				6		
UX	Compose Email (Email system generated	ail Address)					4		
 Automation Security 	Delete system generated			Сору				IN	
2 Intelligence	Action name A unique name for this action	Delete			÷		E.	J	
ክ Manage	For a record of this table This action applies to rows of which table?	contacts	Ŧ			_ComputedName Anton Mase	ood		7-6
Search for help		View Definition				10 1			
	Do this The type of action to perform	Data: delete	this row			First Name Anton			
	Appearance			~			III New View		ShinTo
	Behavior			~		Preview App as		oompanies	0.1.010
	Desumentation					() student	03-6ab677er	1h849⊚awikl	Apply

Here you can set the action name and specify the type of action to occur and the action icon.

The Workflow and *Reports* tabs let you set up automations, such as sending emails or SMS texts when data is added or updated.

Workflow and Reports are very similar, with one key difference: Workflows are automations that are triggered when certain actions occur, and Reports are automations that run on periodic schedules.

Finally, if you want users to be able to use your app when it is not connected to the internet, you can enable offline use in the Offline/Sync section.

Note that with the launch of AppSheet automation, the Behavior workflow and reports features are being replaced by automation events and processes.

Actions and Automation are discussed in other courses in this AppSheet course series.



Let's now discuss how you can test your AppSheet app.



The simplest and easiest way to test your app during development is to use the app preview in the AppSheet Editor.



On the right hand side in the AppSheet UI, a live preview of your app is displayed.

This is the simplest way to test your app in your browser. The preview in the editor sidebar shows what the latest version of your app will look like on a phone oriented vertically.

To quickly test other form factors such as tablet, horizontal phone, or full-screen browser mode, use the link above the editor preview.



Of course, before deploying the app, you should also test it on your mobile devices by sending the install link to yourself or a subset of users.



To enable user testing of your app, you must first share the app with other users.

We discuss how you can share your app in the next video.



Once your app is shared with other users, they can either download the AppSheet app on their device, or open your app in a web browser to test the app.

Once you've incorporated any app feedback you can officially deploy it, activating all the services in your app.

We discuss app deployment and publishing in more detail in a later module of this course.



We now review the different ways that you can share your AppSheet app with other users.
Vorkout Log					⑦ 토 · 오 ㅎ ċ	SAVE - S :
🔯 Not Deployed	Author Versions	Integrations Deploy	Monitor Broadcast Notifications			
🔒 Home	Broadcast a push notification to y	our users. 📕				
(i) Info	Title					
E Data	A few words that appear as the heading of your notification					
UX UX	Body					
- Behavior	A sentence-length message for your notification					
Automation	Deep Link	=		Д		
Security	An optional deep link into the app					
Q Intelligence	Send notification					4
Ø Manage						
Q Search for help						
9						

When you are ready to share your app, in the AppSheet editor, click Manage, and then Share.

You then need to decide whether to share it with anyone (public) or with a restricted audience.

Vorkout Log		⑦ Ē +º 5 ♂ SAVE	S :				
🔯 Not Deployed	Require Sign-In Security Filters Domain Authentication Options						
🔒 Home	Control who can access the app						
(i) Info	Require user signin?						
E Data	a secure subscription plan when decloved). This should be chosen						
ux Ux	for all apps used within a company or organization.						
-3 Behavior							
Automation	Users can access my app without signing in. I understand the security implications of this choice.	More	info				
Security	Yes, the data in this app is public	Yes, the data in this app is ublic					
Q Intelligence	If you disable user signin, you MUST explicitly enable this setting,						
Manage	By Joing So, you achieved age that security and access control Is NOT required for all the data in this app.						
Q Search for help	Yes, I am authorized to set up an insecure app If you disable user signin, you						
	MUST explicitly enable this setting. By doing so, you asknowledge on behalf of your organization that you knowledge that on the risk of d						
	running an insecure app.						

You can share your app with anyone by making it public only if the following statements are true:

- Access to your app does not need to be secure for any reason and your app does not access sensitive data.
- And you are not concerned about the number of active users accessing your app.



You can also share your apps with a restricted audience to control who can use the app, and optionally view or edit the app definition in the app editor.

In the Share App dialog, enable "Advanced". to view and modify a user's role and assigned app version.

After sharing the app, you can notify users by sending them a link. Click Copy sharing links to view a list of links that you can use.

You can also send reminder emails to users who have not used your app by clicking the envelope next to the user's email address.



You can share your app with individual users...



... or with users in a domain.

Read the <u>AppSheet documentation</u> for more information on sharing your app.



Congratulations on learning how to create your first app! From here, you can continue improving your app or start on your next idea!

help.appsheet.com/en community.appsheet.com

AppSheet provides numerous resources that you can use to learn how to leverage the platform to build your own tailored apps.

Go to the <u>AppSheet Help Center</u> to access hundreds of help articles on various AppSheet features.

And explore AppSheet's <u>active community</u> and engage with other app creators on specific topics and questions.



Welcome to the first lab in this course on AppSheet.



In this lab, you ...



create a simple app to manage business contact information using the AppSheet UI.

You configure the app using data from a sheet on Google Drive.

And use the live app preview feature in AppSheet to modify the data displayed in the app.

You also verify that the data changes made via the app are saved in the underlying data source (sheet on Google drive).



In thi	is module, you learned to:	
01	Sign in using a cloud provider account.	
02	Create an app using AppSheet and a spreadsheet as its data source.	
03	Connect a data source to your app in the AppSheet UI and navigate the AppSheet editor.	
04	Use the column structure of data sources.	
05	Create, test, and share your first app using AppSheet.	

In this module, you learned how to get started with AppSheet by signing in with a cloud provider account from Google.

You learned about the different ways to create an app using AppSheet and the steps involved in creating an app using a spreadsheet as its data source.

We discussed how to connect a data source to your app in the AppSheet UI and explored how to navigate the AppSheet editor.

You learned how to view the column structure of data sources, and about the various types of views that can be used in your app.

You learned how to share your app, and completed a lab to create your first app and test the app using AppSheet's live app preview.