

Using Budibase

Editing Elements and other Administrative Tasks

Account Control:

Editing Data Elements:

Our team designed all data elements to be easily configurable. All tables can easily have columns added, edited, or removed, and data columns that contain drop down menus as their entries can easily have these drop-down menus configured to meet the company's changing needs. Below you will find step-by-step instructions on modifying specific data elements, as well as general steps to aid in administration when tables have been added or removed in the future when the team is no longer available.

Adding or Removing a Dopant:

If it is necessary to add a dopant to the dropdown menu found in the synthesis batch process details in the 'product inventory' menu shown below:

SoFab Inks

Chemical Inventory
General Inventory
Product Inventory
View Orders
Analytics

Product Inventory Items

Search Batches

Synthesis

Batch ID: BN0000000005
Starting Volume: 7 ml
Click me

Batch ID: BN0000000006
Starting Volume: ml
Click me

Washing

Batch ID: BN0000000001
Starting Volume: 3 ml
Click me

Batch ID: BN0000000003
Starting Volume: 5 ml
Click me

Batch BN0000000005

Stage
synthesis

Starting Volume
7

Synthesis Stage Information

Final Synthesis Volume
2038

Date
03/30/2028 09:46

Precursor Concentration
0.2736

Base Volume
2038

Dopant Type
Dopant 1

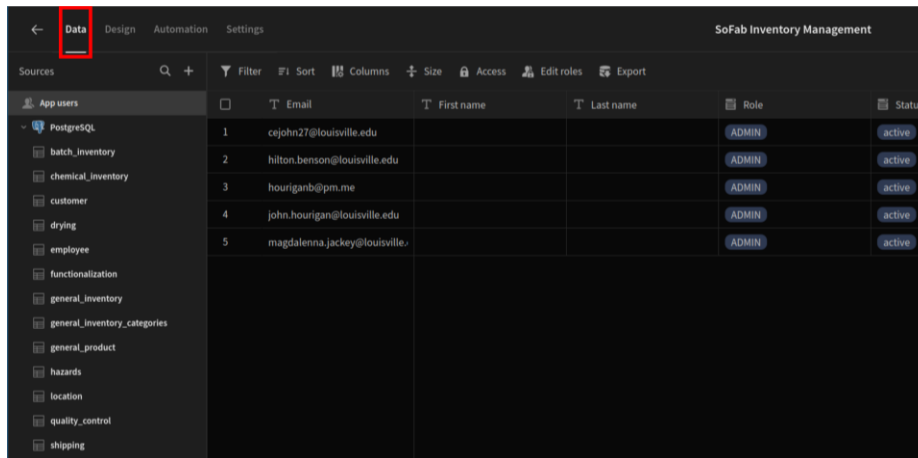
Dopant type
Dopant 1

Dopant 1
Dopant 2
Dopant 3
Dopant 4
Dopant 5

End Synthesis Pts
12.33

This can be accomplished by following the steps below:

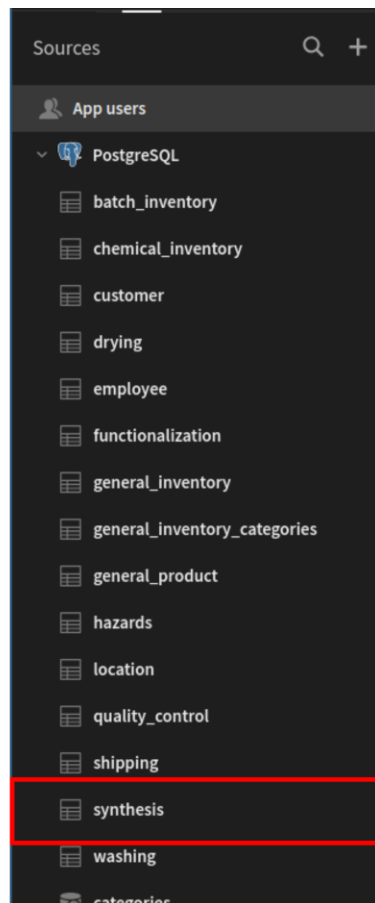
1. Navigate to the local Budibase administrative page by entering **localhost:10000** in the address bar in a web browser.
2. Enter the Budibase log in credentials for an account with administrative privileges.
3. Navigate to the **'Data'** tab shown below:



The screenshot shows the 'Data' tab in the Budibase interface. The 'App users' table is displayed with columns for Email, First name, Last name, Role, and Status. The table contains five rows of user data, all with the role 'ADMIN' and status 'active'.

	Email	First name	Last name	Role	Status
1	cejohn27@louisville.edu			ADMIN	active
2	hilton.benson@louisville.edu			ADMIN	active
3	houriganb@pm.me			ADMIN	active
4	john.hourigan@louisville.edu			ADMIN	active
5	magdalena.jackey@louisville.edu			ADMIN	active

4. Next, under **'sources'**, click the **'synthesis'** table.

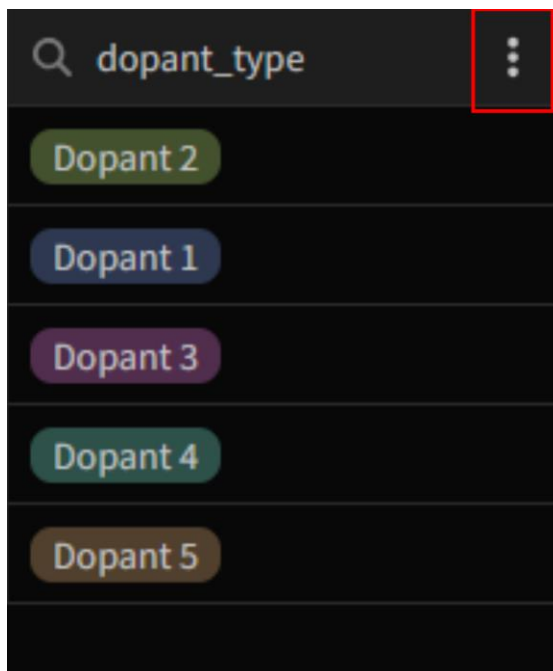


- Using the bottom navigation bar shown in the image below, scroll over until the **'dopant_type'** column label is in view.

The screenshot shows the 'Sofab Inventory Management' application interface. On the left is a sidebar with a search bar and a list of categories. The main area displays a table with the following columns: `Batch_volume`, `date`, `precursor_concentration`, `base_volume`, `precursor_volume`, `base_concentration`, `dopant_mass`, `end_ph`, `dopant_type`, `str_time`, and `str_gpm`. The `dopant_type` column contains values like 'Dopant 2', 'Dopant 1', 'Dopant 3', 'Dopant 4', and 'Dopant 5'. A red box at the bottom highlights the navigation bar.

	<code>Batch_volume</code>	<code>date</code>	<code>precursor_concentration</code>	<code>base_volume</code>	<code>precursor_volume</code>	<code>base_concentration</code>	<code>dopant_mass</code>	<code>end_ph</code>	<code>dopant_type</code>	<code>str_time</code>	<code>str_gpm</code>
1	2032	03/15/2020 09:46	0.1355	2032	2032	0.1355	1093	3.86	Dopant 2	2:38	2098
2	2038	03/16/2020 09:46	0.2736	2038	2038	0.2736	1098	12.33	Dopant 1	0:26	3768
3	2314	03/16/2020 09:46	0.1308	2314	2314	0.1308	1028	5.81	Dopant 3	2:59	5067
4	3082	03/16/2020 09:43	0.2413	3082	3082	0.2413	2568	2.67	Dopant 4	0:46	1763
5	3402	03/16/2020 09:46	0.2886	3402	3402	0.2886	2835	4.68	Dopant 5	1:34	2864

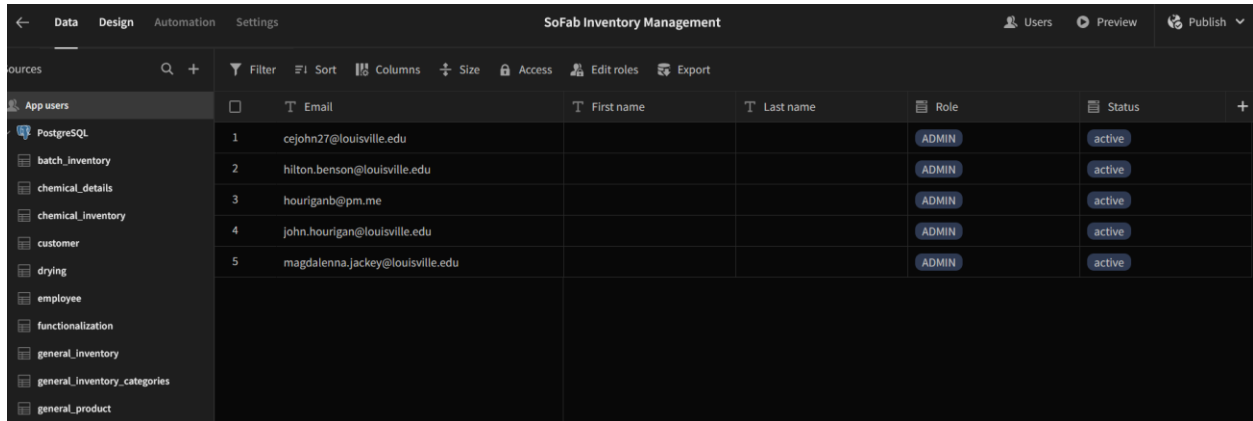
- Once the **'dopant_type'** column is in view, select the three dots next to the column name.



- In the dropdown menu select the **'edit column'** option.
- You will now be presented with a menu like that shown below, where you will be able to edit or remove existing options, or add a new option.

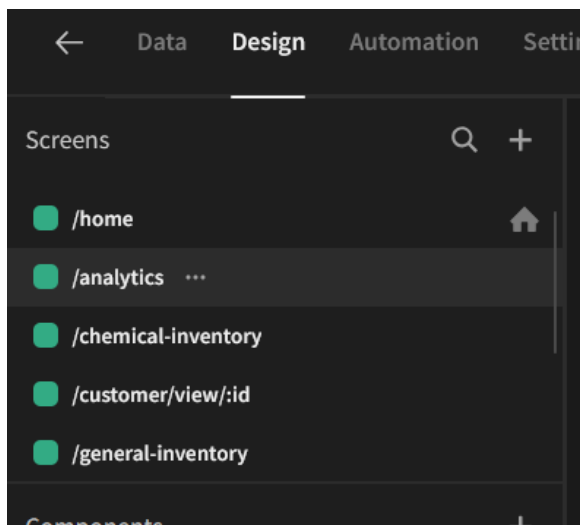
Adding additional views to the Analytics tab

Additional views can be added to Budibase in the app builder through the “Design” tab.

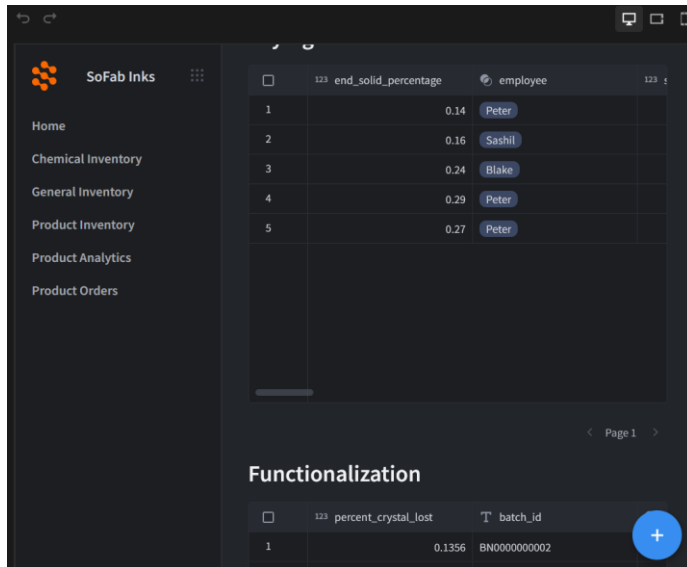


	Email	First name	Last name	Role	Status
1	cejohn27@louisville.edu			ADMIN	active
2	hilton.benson@louisville.edu			ADMIN	active
3	houriganb@pm.me			ADMIN	active
4	john.hourigan@louisville.edu			ADMIN	active
5	magdalenna.jackey@louisville.edu			ADMIN	active

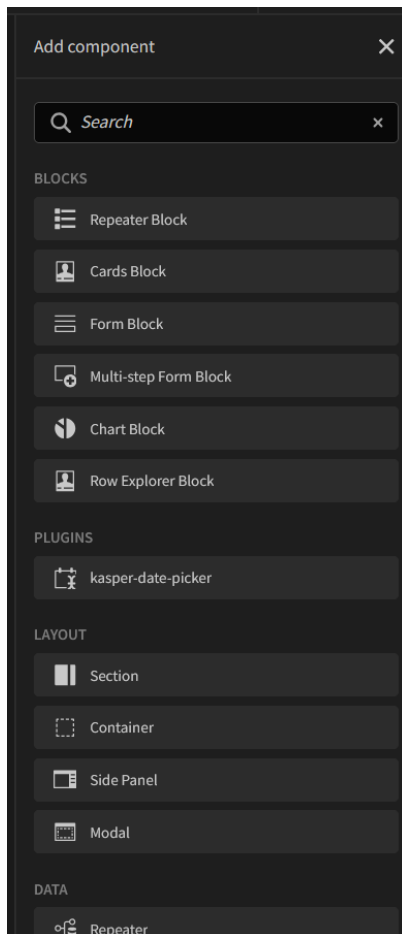
From here select the “Analytics” page



Then click the large blue circle in the bottom right of your page view.

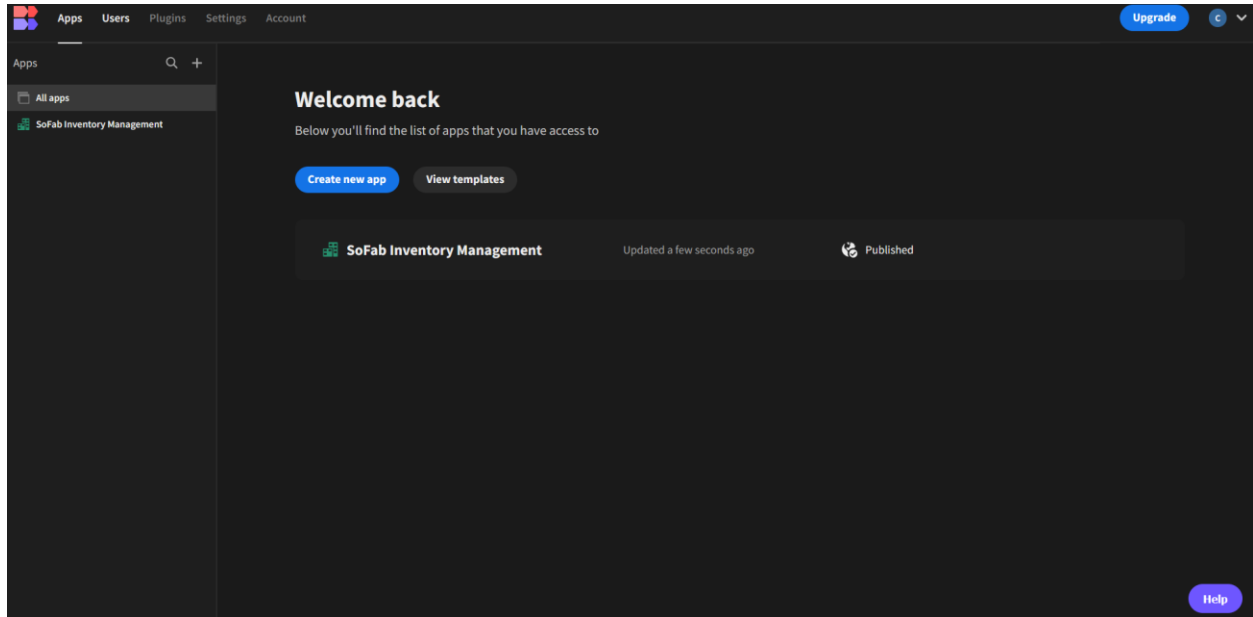


This will pull up the “Add Component” tab on the right side of your screen. You can use this to drag and drop options onto your view.



Changing User Permissions (edit or view mode)

A user's permissions can be changed in the “Users” tab in the top right corner of your home screen.



This pane will allow you to grant or remove edit access, add new user accounts, or delete old users.

Users

Add users and control who gets access to your published apps

Add usersImport

Search

<input type="checkbox"/>	EMAIL	ACCESS	APPS
	cejohn27@louisville.edu	Account admin	<input type="checkbox"/> 1
<input type="checkbox"/>	hilton.benson@louisville.edu	Account admin	<input type="checkbox"/> 1
<input type="checkbox"/>	magdalenna.jackey@louisville.edu	Account admin	<input type="checkbox"/> 1
<input type="checkbox"/>	john.hourigan@louisville.edu	Account admin	<input type="checkbox"/> 1
<input type="checkbox"/>	houriganb@pm.me	Account admin	<input type="checkbox"/> 1

You can add users by clicking the blue bottom in the top right corner, and delete them by checking the box next to their names and selecting "delete user."

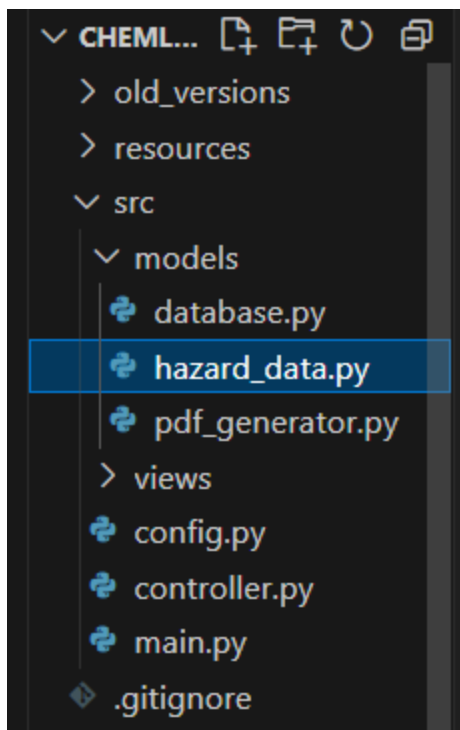
Using the Python Label Generator

Changing the defaults Values for Labels

Default label values are declared inside the python program. To change them a user would need to locate the original string value and replace it.

For example,

To add additional checkboxes to the hazard and precautionary pages, first navigate to the hazard_data.py file.



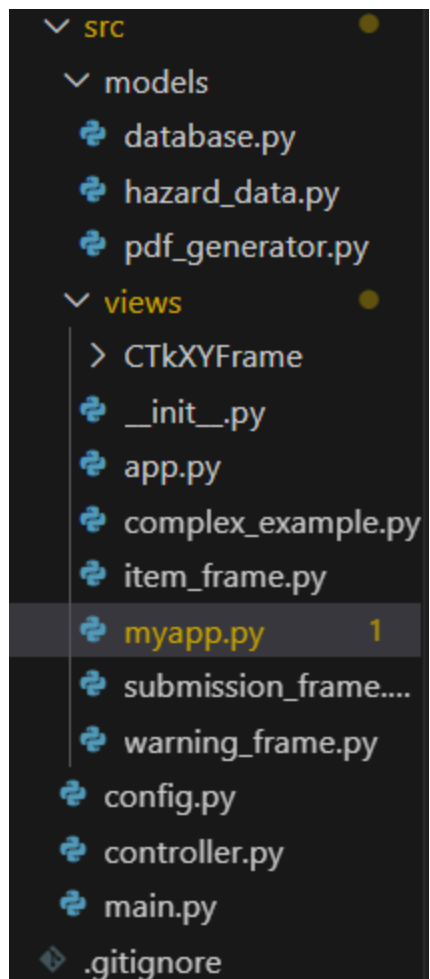
Here you can add or remove the default strings of text.

```
class HazardsPrecautionData:
    def __init__(self):
        self.selected_hazards = []
        self.selected_precautions = []
        self.diamond_vars = []

        self.HAZARD_CLASSES = {
            "Physical Hazards (H2)": [
                "H200 Unstable explosive",
                "H201 Explosive; mass explosion hazard",
                "H202 Explosive; severe projection hazard",
                "H203 Explosive; fire, blast or projection hazard",
                "H204 Fire or projection hazard",
                "H205 May mass explode in fire",
                "H206 Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced",
                "H207 Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced",
                "H208 Fire hazard; increased risk of explosion if desensitizing agent is reduced",
                "H220 Extremely flammable gas",
                "H221 Flammable gas"
```

Please note that all strings of text need to start and end with quotation marks "" and that if they are a continuation from a previous line, they need to end in a comma.

To change the default website/ QR-code link, navigate to the myapp.py file, inside of the src and views folder.



Then navigate to the section inserting the default SDS (currently line 270,)

```
270 |         #Insert default SDS
271 |         if "qr" in formatted_table_columns[j].lower():
272 |             default_sds = "https://drive.google.com/file/d/1HfsqJG-goraXZHW80wokIUNG\_nVDM\_Uz/view"
273 |             entry.insert(0,default_sds)
274 |             self.controller.set_qr_code_entry(default_sds)
275 |             entry.grid(row=row, column=col+1, padx=10, pady=5, sticky="w")
```

Ensure that the new link is also in quotation marks.