<InfPALS/>

Big Project
Part 3

What are we going to do today?
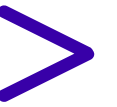
Rebuilding Arrays

Adding Items

Some background info...
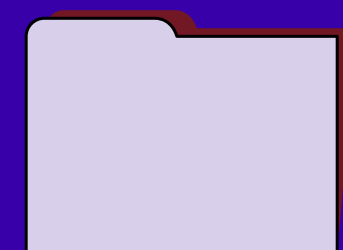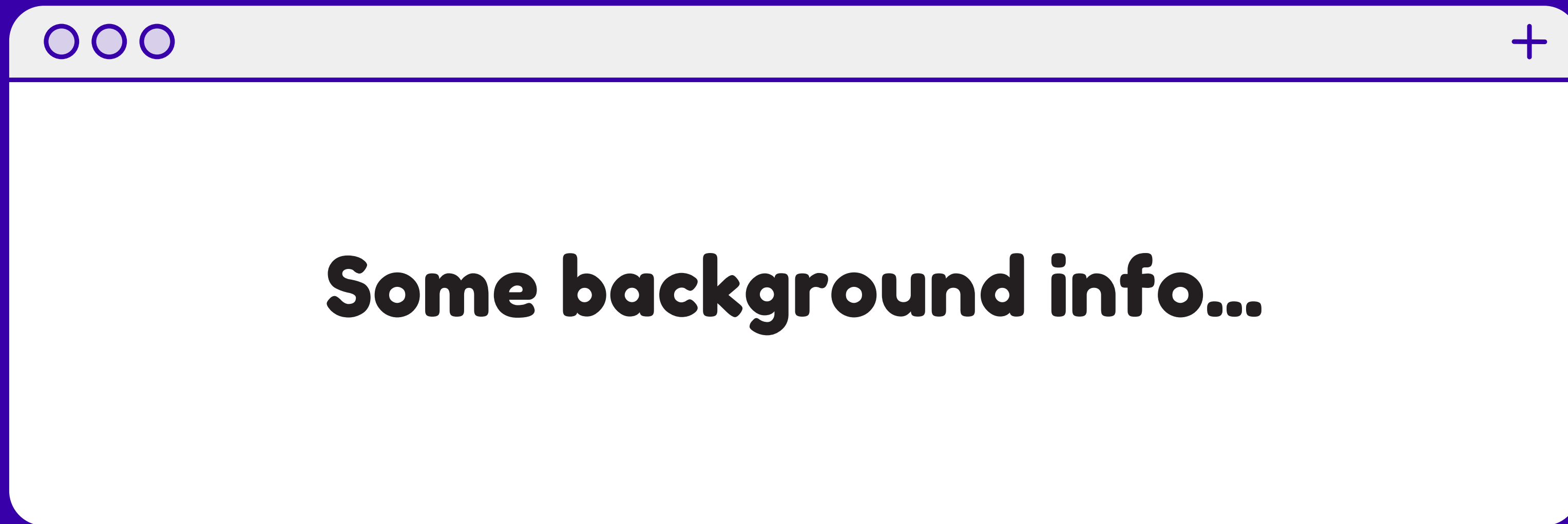
JavaScript

- Programming language made for developing websites
- Most know for building frontend web applications
- Used in combination with HTML and CSS

JS

{.js}

JavaScript

JavaScript
Structures

Function structure
- function function_name (parameter_name) {
    body_of_the_function
  }
)

JavaScript
Structures

For Loop Structure
- for (let i = 0; i < number; i++{
    body_of_the_function
}
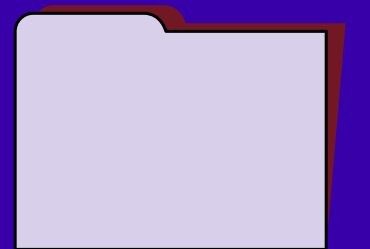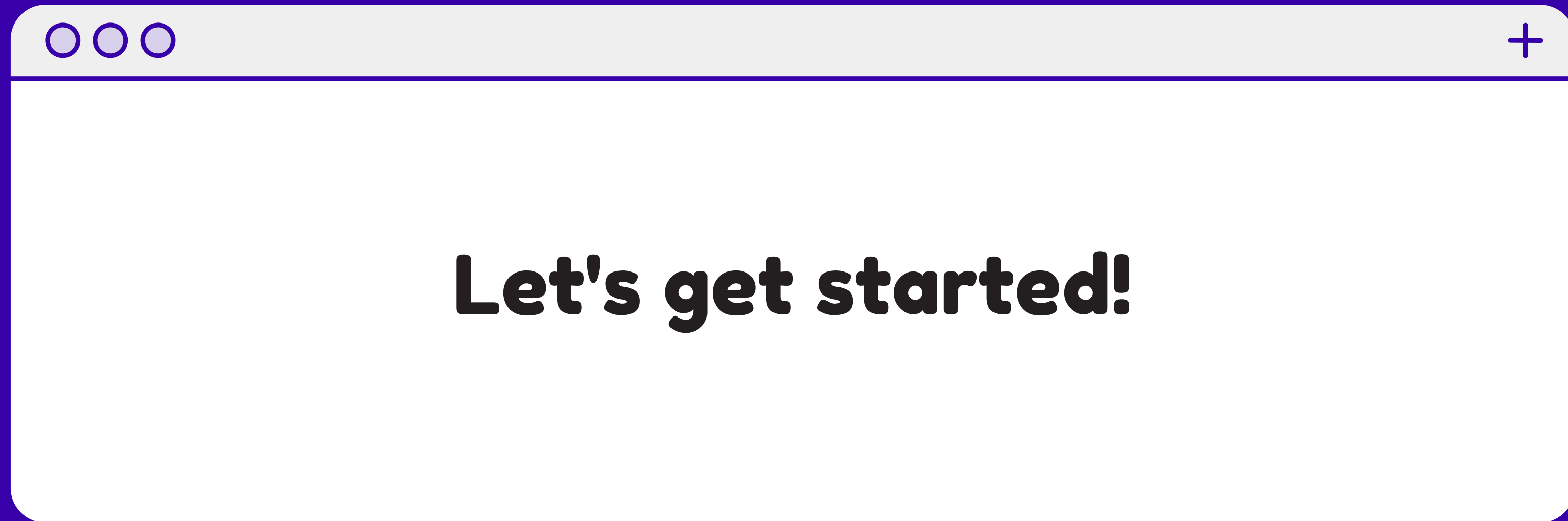
Appending elems to the end of Array/List
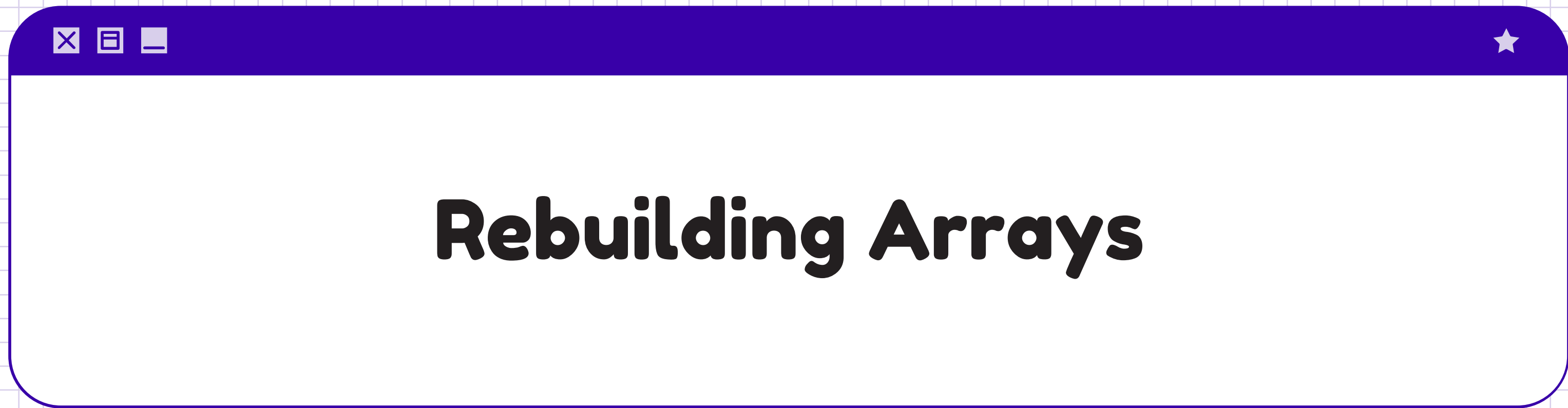- name_of_array.push(elem)

{.js}

JavaScript

We hope you are having fun! ;)

Let's get started!

If you were not here last week ...

Fork the following repository:
https://github.com/infpals/ip2022-big-
project-template-updated
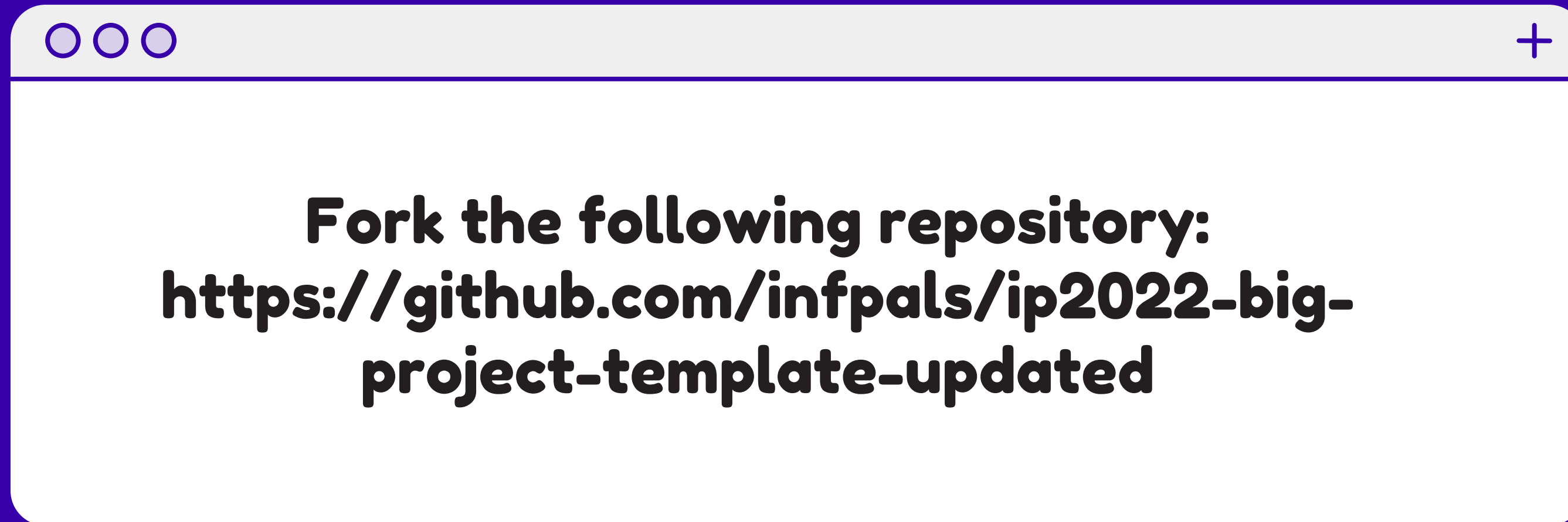
Rebuilding Arrays
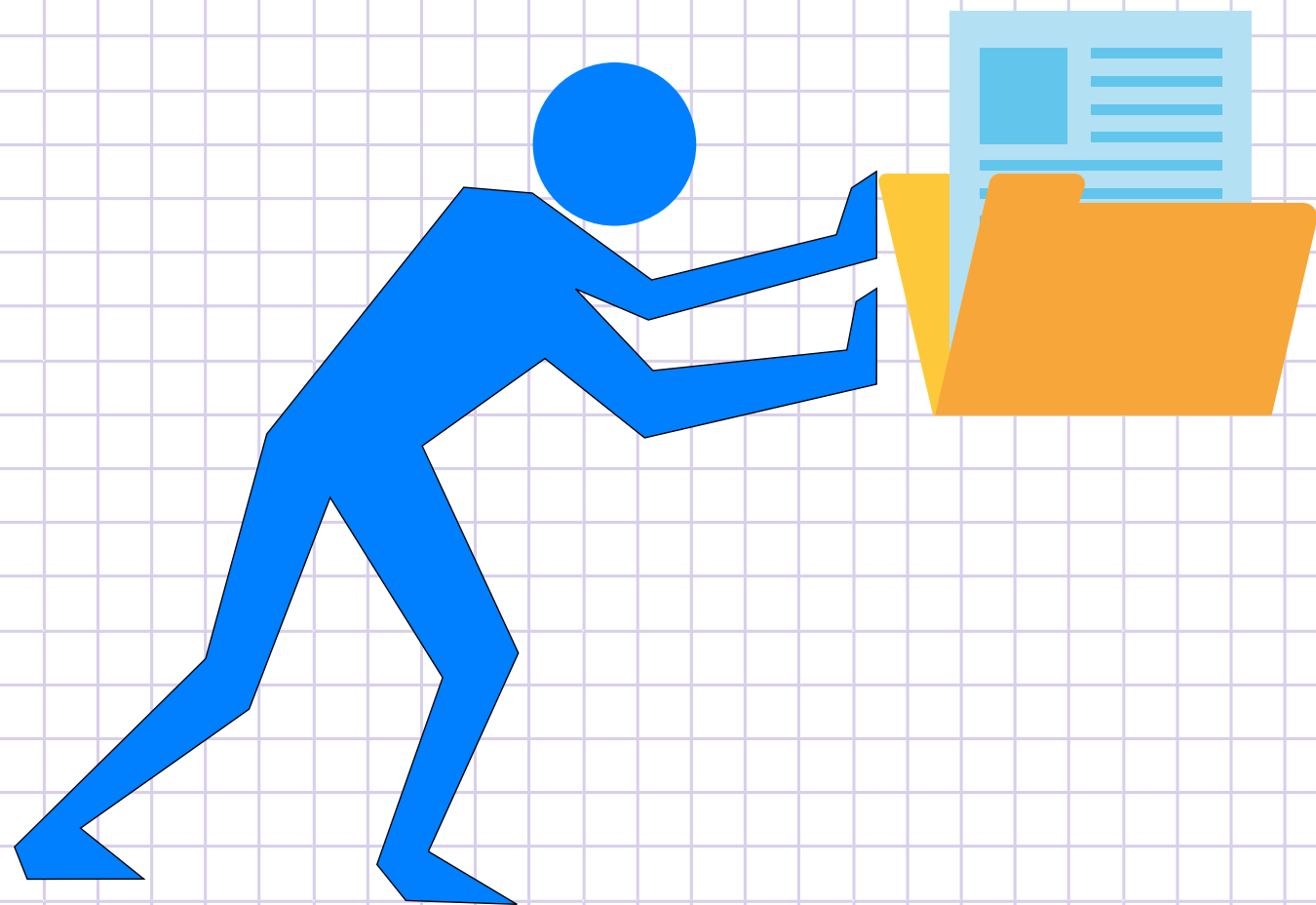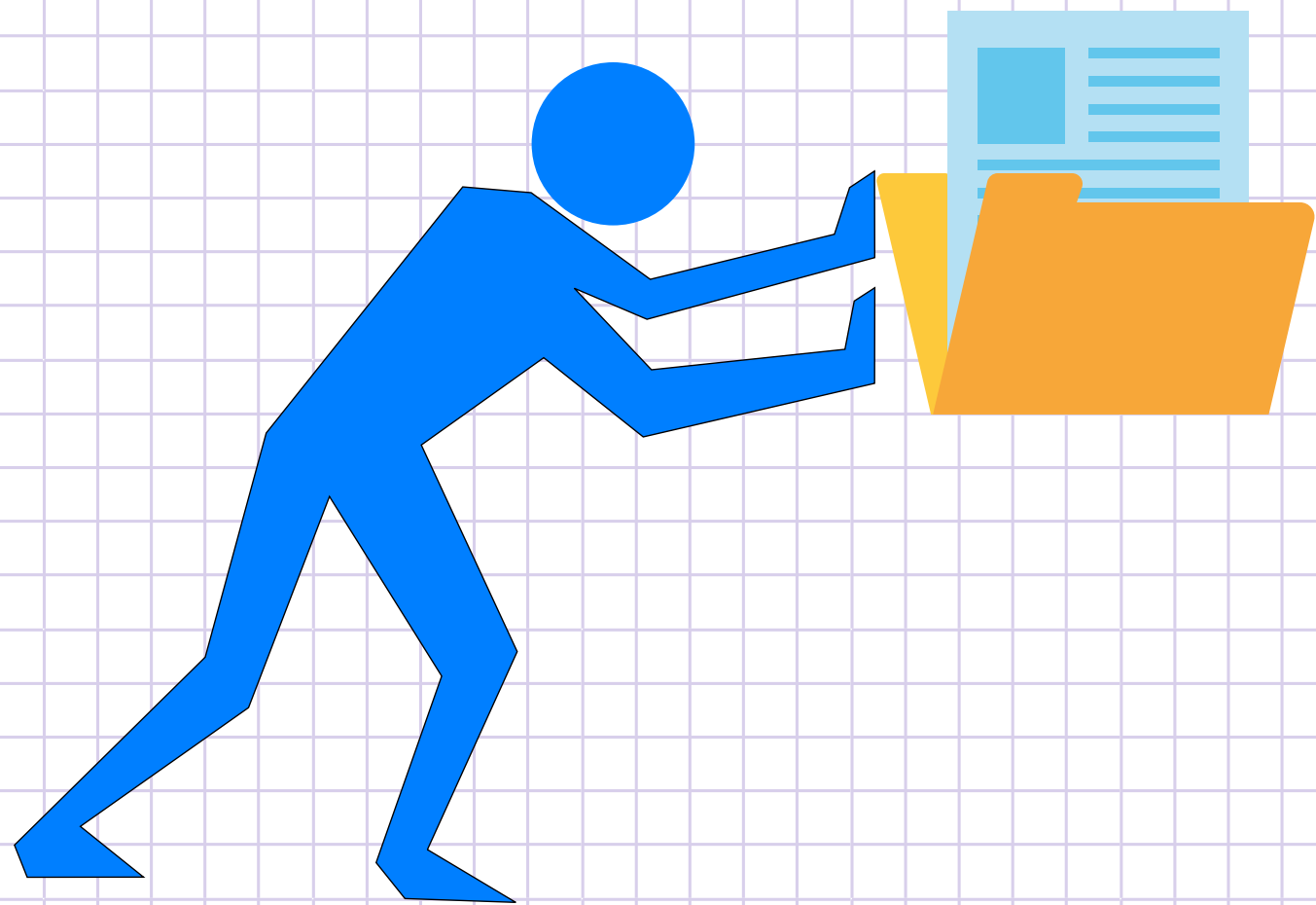
Rebuilding Arrays

1. We need a new function that allows our arrays and local storage to reflect dragged and dropped items in new columns!
   - Create a new function below our updatedDOM() called rebuildArrays() without passign it any parameter
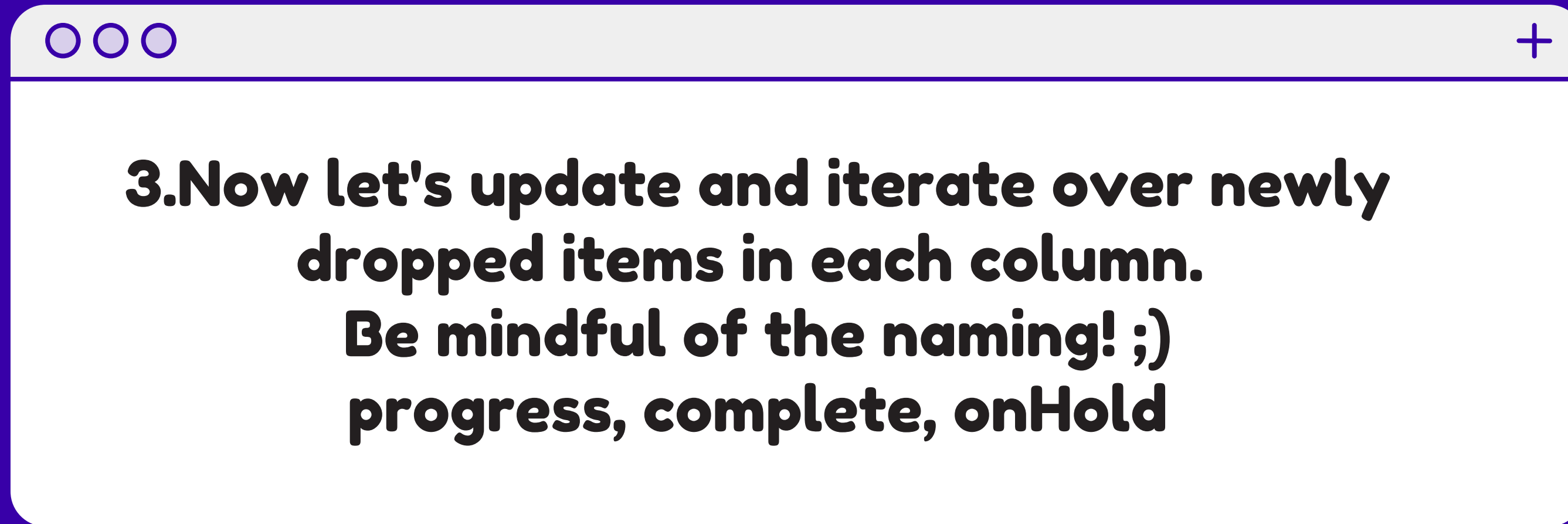   - Call this new function in our drop function

Rebuilding Arrays

2. Let's iterate over each item in our backlog list (we got this from html) and update our local storage:
- First, set backlogListArray = [ ];
- Create a for loop that loops while i < backlogList.children.length
- Inside this loop, we want to add the newly dropped item to our array through backlogListArray.push(backlogList.children[index].textContent);
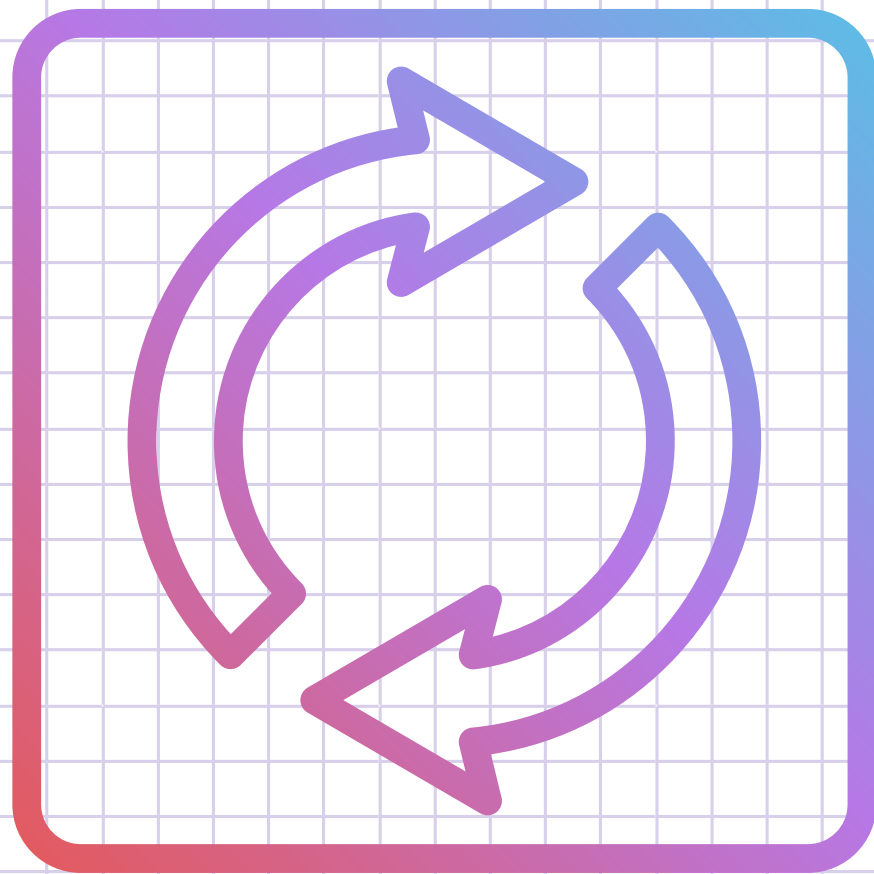
**3.Now let's update and iterate over newly dropped items in each column.
Be mindful of the naming! ;)
progress, complete, onHold**

Open index.html in your browser. What happens if you reload the browser?
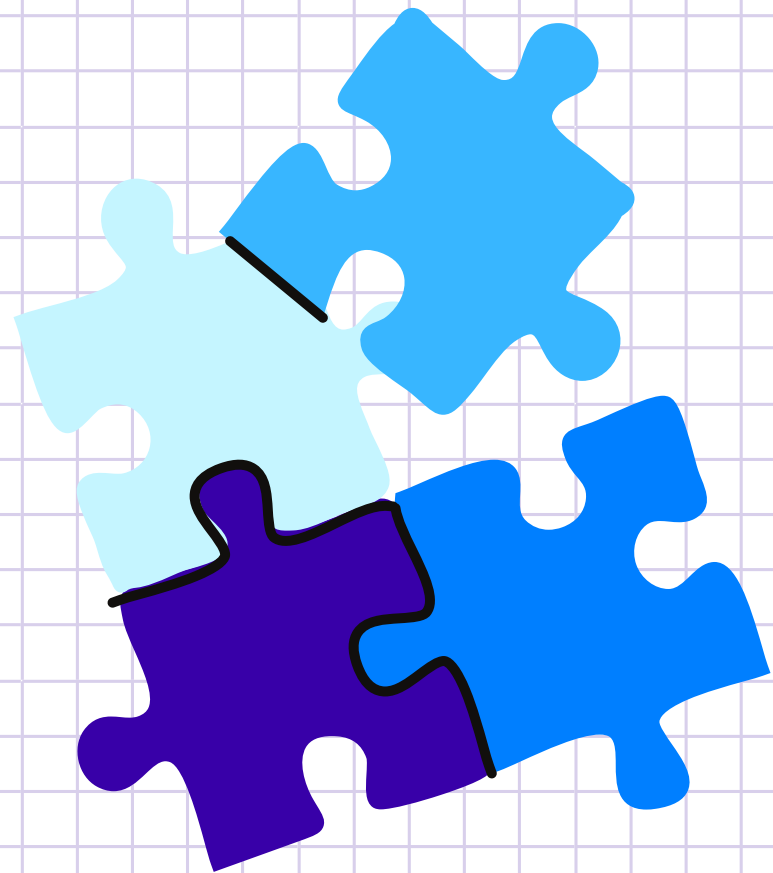
Rebuilding Arrays

4. Let's update our DOM with the updated Arrays
   - In our function rebuildArrays call the function updateDOM();
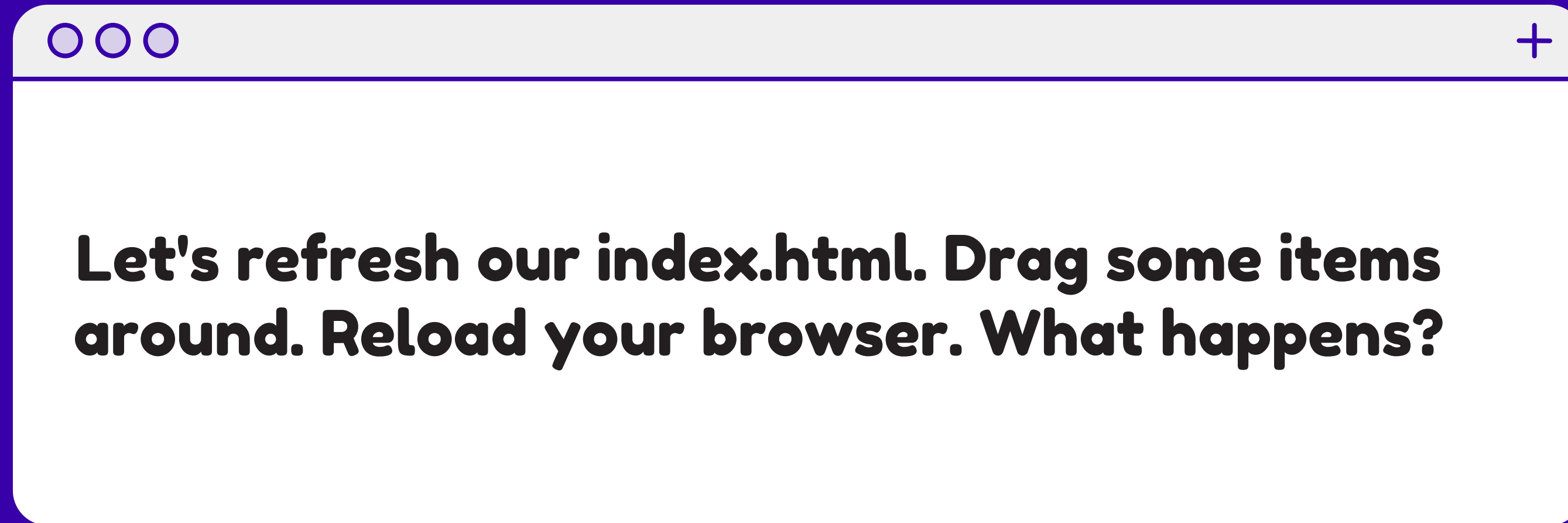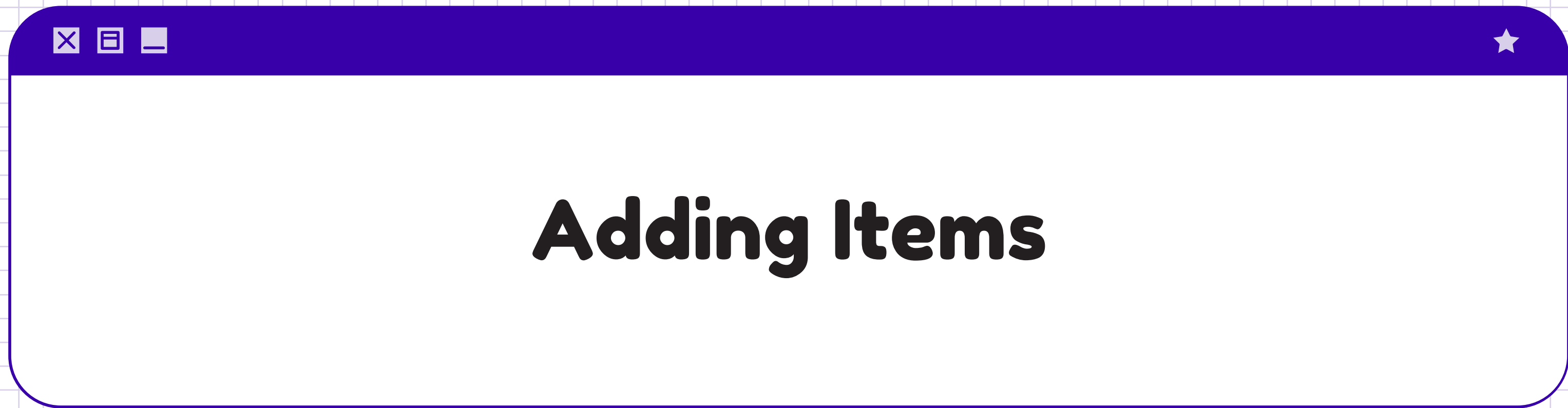
Rebuilding Arrays
Put it together!

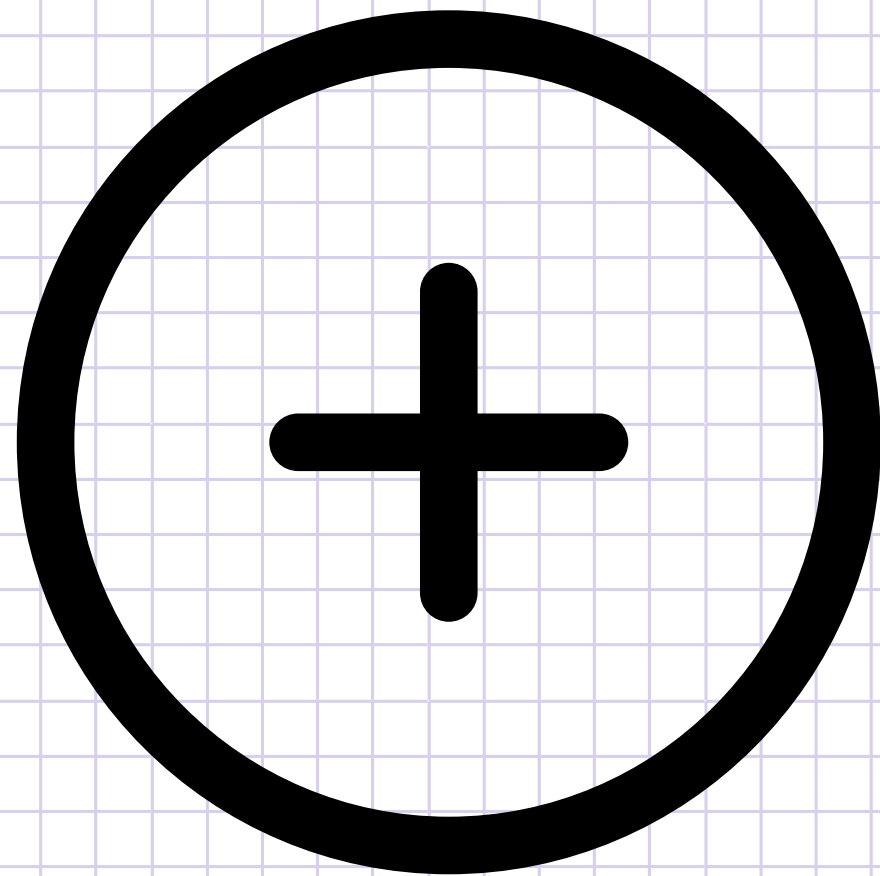5. Lastly, let's save the updated columns

- At the end of UpdateDOM function
  - call updateSavedColumns() function
  - set updateOnLoad to true

Let's refresh our index.html. Drag some items around. Reload your browser. What happens?

Adding Items
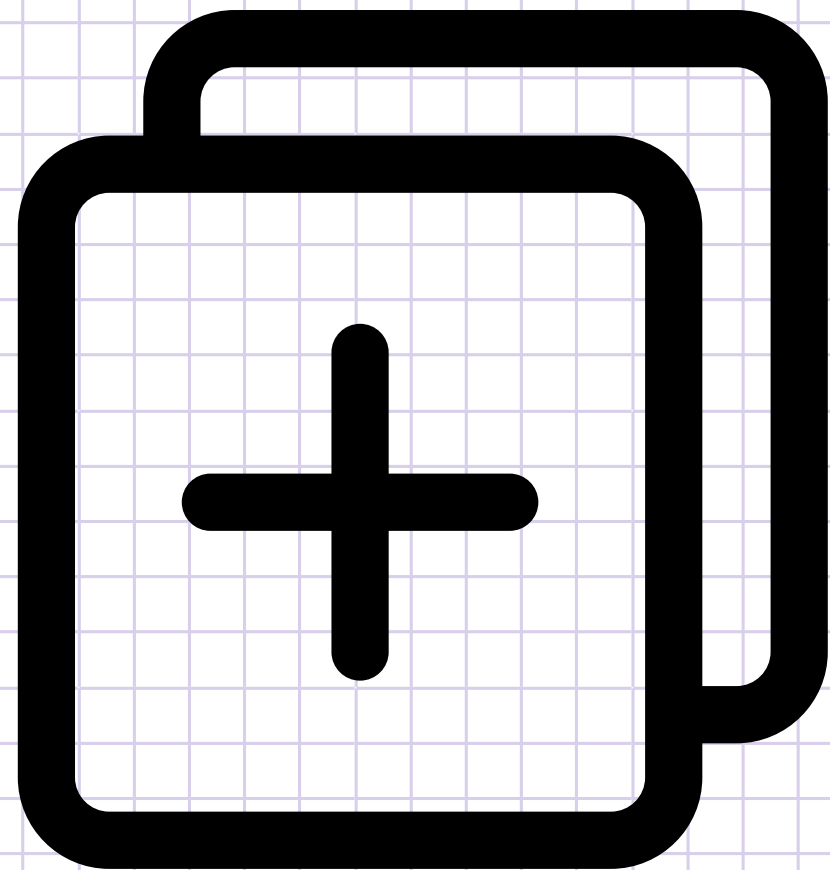
Adding Items

1. We want to add event listeners to our HTML. This ensures what happens when we click on + add item and save item button.
   - In backlog column / section find section for the add button.
     - In the opening tag of section with class 'add-btn' add onclick="showInputBox(0)"
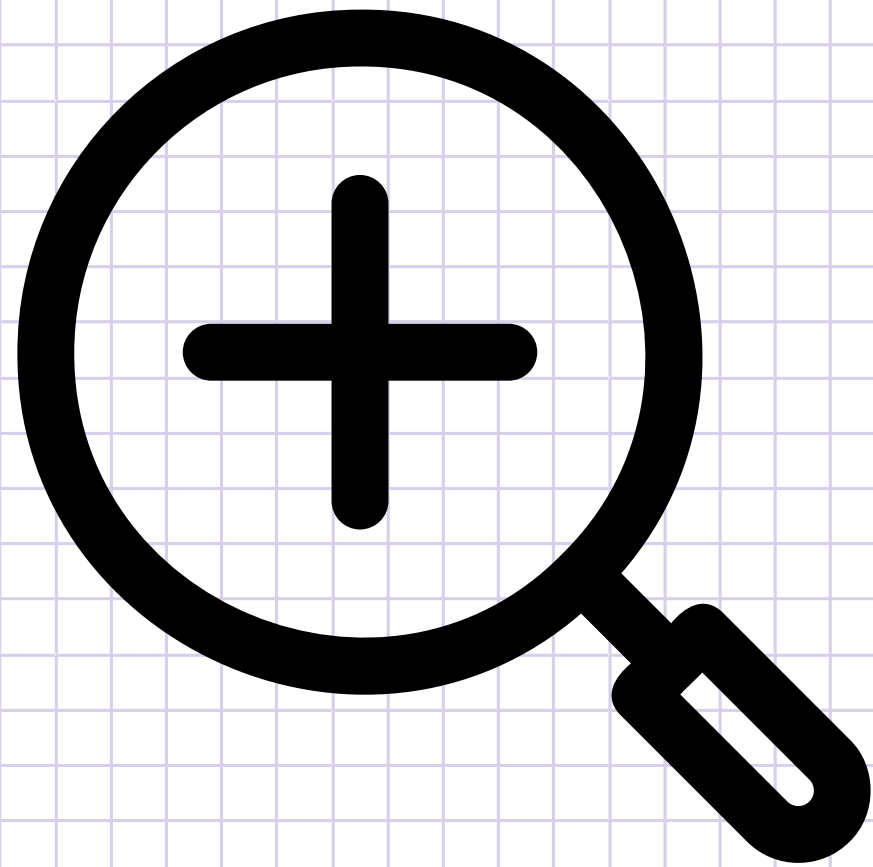   - In the opening tag of the section with class 'add-btn solid' add onclick="hideInputBox(0)"

Adding Items

2. Now add onclick="showInputBox(0) and onclick="hideInputBox(0)" to each column
PS: Don't forget to change the 0s into the appropriate column numbers as we did in the function dragEnter

Adding Items

3. Now, let's write our function showInputBox in JS.
- write function showInputBox passing it the parameter column
- Inside our function we want to say that once we click on + add item btn we want to hide it and show the save button and container
  - Inside showInputBox add addBtns[column].style.visibility = 'hidden';   and saveItemBtns[column].style.display = 'flex';   and addItemContainers[column].style.display = 'flex';

Adding Items
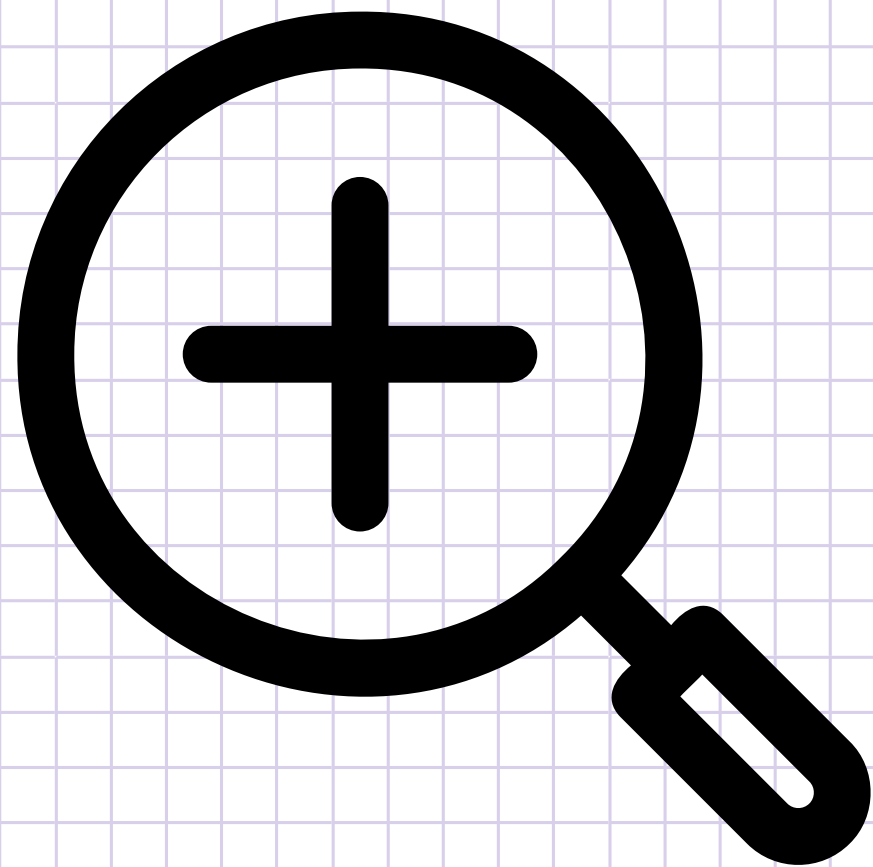
4. Now, let's write our function hideInputBox in JS.
- write function hideInputBox passing it the parameter column
- Inside our function we want to say that once we click on save item btn we want to hide it and the container as well and we want to show the + add button
  - Inside showInputBox add addBtns[column].style.visibility = 'visible';   and saveItemBtns[column].style.display = 'none';   and addItemContainers[column].style.display = 'none';
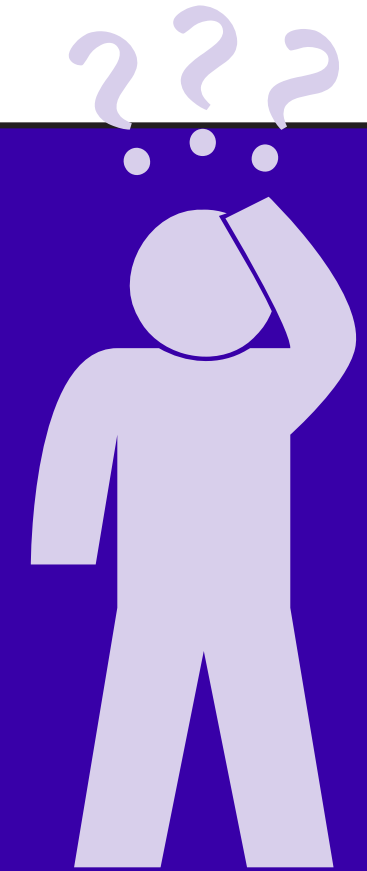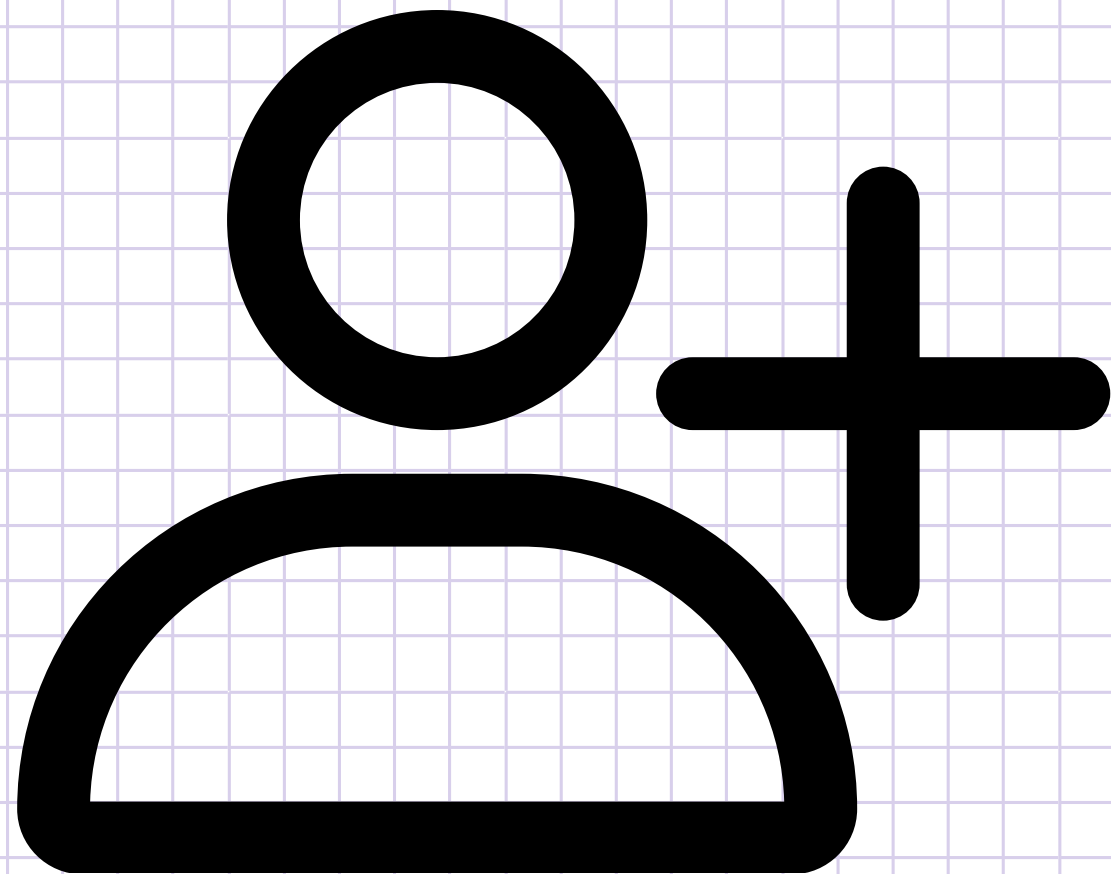
Try your new add item button. What happens? Hint:We made mistake in our html

In order to resolve our problems we need to shift our closing tags. Find tag with class add-btn-group and move its' closing tag above the tag with class add-container.
Try your + add item btn now :)

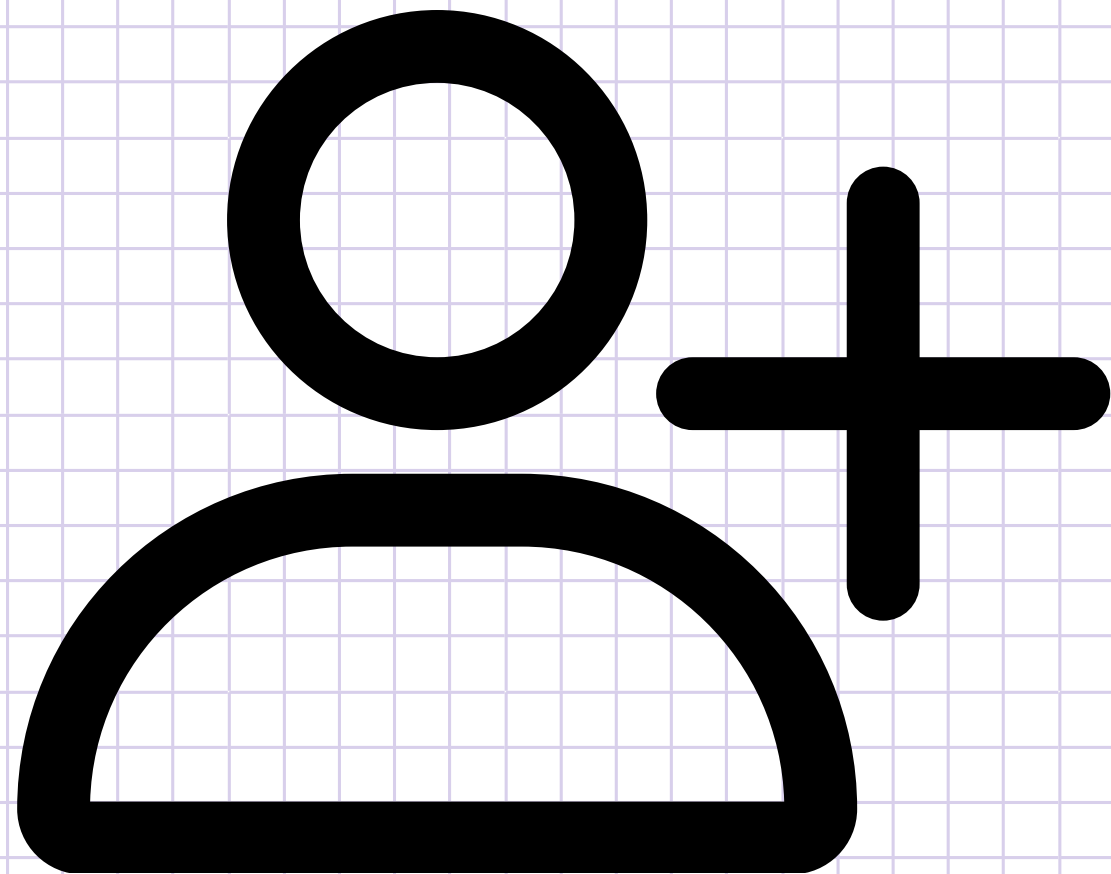# Adding Items

5. Now we want to able to write something into our content box
- We are able to do this if you add contenteditable="true" into each columns tag with class add-item
 - This is in our HTML
  - In the section add-container

Adding Items

6. We also want to add the content of the new item to that given column
- We need to write new function in our js called addToColumn() and pass it parameter column
- Inside we need to get the text content of the container, the column which we want to add it to , append that item to the array of items and update DOM
  - const itemText = addItems[column].textContent;
  - const selectedArray = listArrays[column];
  - selectedArray.push(itemText);
  - updateDOM();

Try to add your new item to the Column you want! What happens? Does it work?
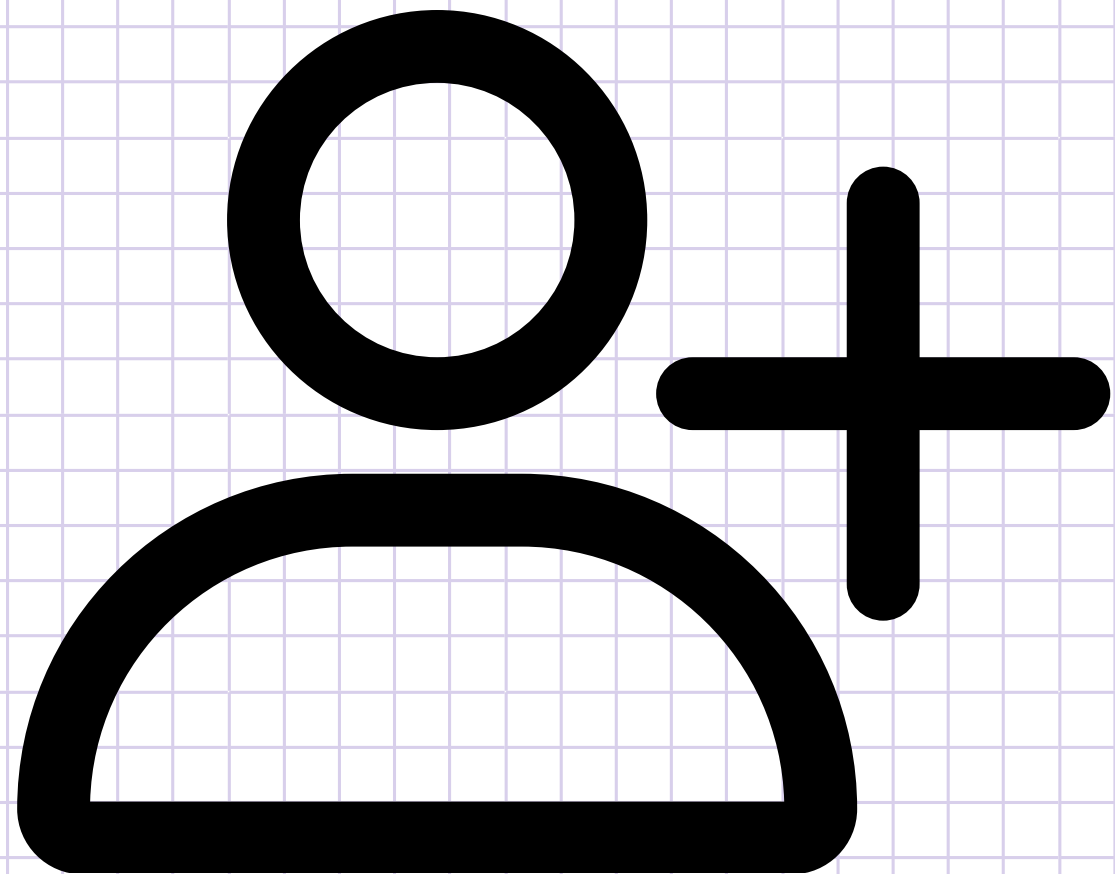Try to look at the console and figure out where is the problem.
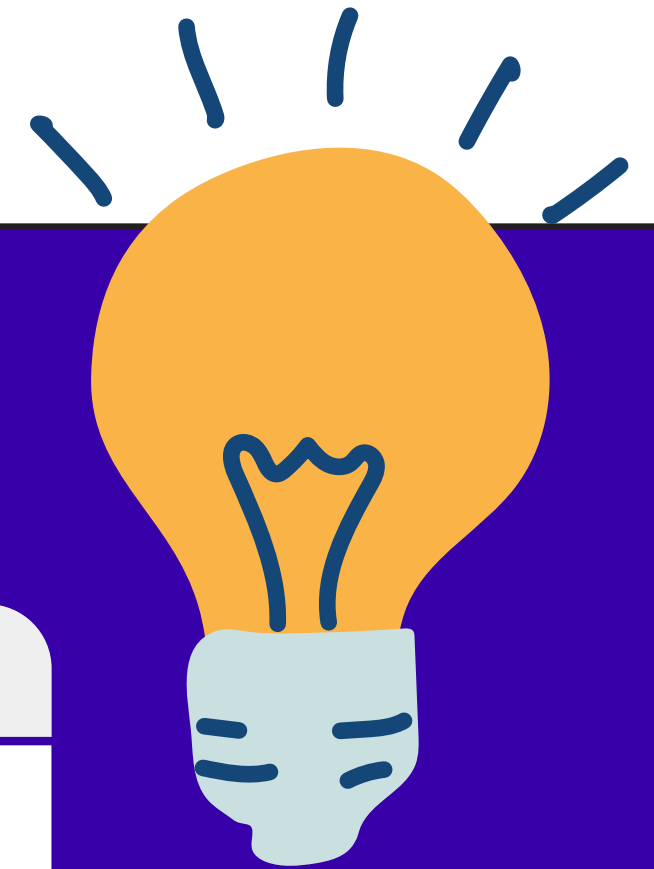
Add addToColumn(column) inside our
hideInputBox(column) function
Under the comment //Initialize Arrays
add let listArrays = [];
and in the function updateSavedColumns you
need to add
listArrays = [backlogListArray, progressListArray,
completeListArray, onHoldListArray];

Try it now!

Adding Items

6. Lastly, what happens if you try to add two items to one column of your choice?

- We want a blank container every time we add a new item and for that we add in the function addToColumn
  - addItems[column].textContent = '';

Try it now!
Everything should work!

<InfPALS/>

Apply to be
InfPals Leader
in 2022/2023