

Seat Reservation Program



Part 4: The Reservation Form

Adding the Form HTML

Replace the index.html file with the new one for this part, which includes the reservation form and the the reserve seats button.

```
<a href="#" id="reserve">Reserve Seats</a>

<section id="resform">

  <h2>Complete This Form To Confirm Your Reservation</h2>

  <p id="selectedseats">You have selected X Seats</p>

  <form id="confirmres">

    <label for="fname">First Name</label>
    <input type="text" name="fname" id="fname" placeholder="Bob" required>

    <label for="lname">Last Name</label>
    <input type="text" name="lname" id="lname" placeholder="Jones" required>

    <input type="submit" name="send" id="confirmbtn" value="Confirm
    Reservation">

    <p>Or <a href="#" id="cancel">cancel</a> and choose different seats</p>

  </form>

</section>
```

The First Challenge

First thing is to make an event handler attached to the link with ID set to "reserve" to make the section with the ID "resform" display.

Also make one that if you click cancel, it hides the form.

Reserve Your Seats

Complete This Form To Confirm Your Reservation

You have selected X Seats

First Name

Last Name

[Confirm Reservation](#)

Or [cancel](#) and choose different seats

3

13

18

28

33

43

48

58

63

73

Open and Close Form Event Handlers

Did you get something like this?

```
//Event listener for the reserve button to open the form...
document.getElementById('reserve').addEventListener('click', function(event){
    document.getElementById('resform').style.display="block";
    event.preventDefault();
});

//Event listener to close the form if someone clicks cancel...
document.getElementById('cancel').addEventListener('click', function(event){
    document.getElementById('resform').style.display="none";
    event.preventDefault();
});
```

Showing and Hiding the Form

If no seats are selected, users should not be able to fill out the form and click the reserve button.

Create a function called `manageConfirmForm()` and have an if/else statement that checks if there is anything in the `selectedSeats` array.

If there is, set the element with `id = "confirmres"` to display block, if there isn't set it to `display:none`;

The screenshot shows a web browser window titled "Seat Reservations" with the URL `file:///Users/wmmead/Desktop/SeatResPart4-Finish/index.html`. The page has a green "Reserve Seats" button in the top left. The main heading is "Reserve Your Seats". A modal form titled "Complete This Form To Confirm Your Reservation" is centered on the screen. The form contains the text "You have selected X Seats", input fields for "First Name" (containing "Bob") and "Last Name" (containing "Jones"), a blue "Confirm Reservation" button, and a link "Or [cancel](#) and choose different seats". The background shows a grid of seats labeled A through L and 1 through 180. Seat 92 is highlighted in yellow.

Inside manageConfirmForm function...

```
function manageConfirmForm(){  
  
    if(selectedSeats.length > 0){  
  
        document.getElementById('confirmres').style.display = "block";  
    }  
  
    else{  
        document.getElementById('confirmres').style.display = "none";  
    }  
}
```

You should have something like this.

Where do you need to call this function?

Running the Function

Everytime you add or remove a seat in and out of the array, this function should run.

So that means it needs to go in the seatSelectionProcess function.

Where else does it need to run?

```
function seatSelectionProcess(thisSeat){  
  
    var index = selectedSeats.indexOf(thisSeat);  
  
    if( index > -1 ){  
        selectedSeats.splice(index, 1);  
        document.getElementById(thisSeat).className = "a";  
    }  
  
    else {  
        selectedSeats.push(thisSeat);  
        document.getElementById(thisSeat).className = "s";  
    }  
  
    manageConfirmForm();  
    console.log(selectedSeats);  
}
```

Run the Function Right Away

Run it right away, when the page loads.

```
function manageConfirmForm(){  
  
    if(selectedSeats.length > 0){  
        document.getElementById('confirmres').style.display = "block";  
    }  
  
    else{  
        document.getElementById('confirmres').style.display = "none";  
    }  
}  
  
manageConfirmForm();
```


The Next Challenge

This brings you to your next challenge.

Instead of showing the form the paragraph with id set to "selectedseats" needs to have this HTML:

```
'You need to select some seats to reserve.<br><a href="#"  
id="error">Close</a> this dialog box and pick at least one seat.'
```

Updating the else statement...

```
function manageConfirmForm() {  
  
    if(selectedSeats.length > 0){  
  
        document.getElementById('confirmres').style.display = "block";  
    }  
  
    else{  
        document.getElementById('confirmres').style.display = "none";  
  
        document.getElementById("selectedseats").innerHTML= 'You need to select some  
seats to reserve.<br><a href="#" id="error">Close</a> this dialog box and  
pick at least one seat.';  
  
    }  
}
```

This should do the trick! Now you need to add a click handler in the function so that clicking #error closes the dialog box again. How would you add that?

Adding the error click handler...

```
function manageConfirmForm() {  
  
    if(selectedSeats.length > 0) {  
  
        document.getElementById('confirmres').style.display = "block";  
    }  
  
    else{  
        document.getElementById('confirmres').style.display = "none";  
  
        document.getElementById("selectedseats").innerHTML= 'You need to select some  
seats to reserve.<br><a href="#" id="error">Close</a> this dialog box and  
pick at least one seat.';  
  
        document.getElementById('error').addEventListener('click', function(){  
            document.getElementById('resform').style.display="none";  
        });  
  
    }  
}
```

That does the trick. On to the next challenge...

Squashing Bugs on the Form...

Ok that works, but now the error message appears even when some seats are selected.

Why, and what do you need to do to fix it?

The screenshot shows a web browser window titled "Seat Reservations" with the URL `file:///Users/wmmead/Desktop/SeatResPart4-Finish/index.html#`. The page has a "Reserve Seats" button in a green box. The main heading is "Reserve Your Seats". A modal dialog box is overlaid on the seat grid, titled "Complete This Form To Confirm Your Reservation". The dialog contains the text: "You need to select some seats to reserve. [Close](#) this dialog box and pick at least one seat." Below this, there are input fields for "First Name" (containing "Bob") and "Last Name" (containing "Jones"), a "Confirm Reservation" button, and the text "Or [cancel](#) and choose different seats". The background shows a grid of 180 seats arranged in 12 rows (A-L) and 15 columns. Seats 127, 128, and 129 are highlighted in pink.

Row	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11	Col 12	Col 13	Col 14	Col 15	Row Label
A	1	2	3										13	14	15	A
B	16	17	18										28	29	30	B
C	31	32	33										43	44	45	C
D	46	47	48										58	59	60	D
E	61	62	63										73	74	75	E
F	76	77	78										88	89	90	F
G	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	G
H	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	H
I	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	I
J	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	J
K	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	K
L	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	L

Fixing the Error

```
if(selectedSeats.length > 0){  
  
    document.getElementById('confirmres').style.display = "block";  
  
    document.getElementById("selectedseats").innerHTML="You have some seats  
selected";  
}
```

Above is a simple solution. But it could be better.

Next, try to make it say which seats are selected.

Hint: use the toString method on the array to get a comma delimited list of seat numbers.

A Little Bit Better...

```
if(selectedSeats.length > 0){  
    document.getElementById('confirmres').style.display = "block";  
  
    let seatsString = selectedSeats.toString();  
    document.getElementById("selectedseats").innerHTML=`You have selected seats ${seatsString}`;  
}
```

Converting the array to a string and then adding it on to the end of the message is a good first step. But it could be better still...

**Complete This Form To Confirm
Your Reservation**

You have selected seats b25,b26,b27

Getting even better...

This is better, but it could be better still if there were spaces after the commas and the last comma was replaced with 'and'.

Like this: seats f82, f83 and f84

See if you can figure out how to use the string method, `replace()` and the two regular expression below to fix up the way the list of seats looks.

Adds spaces after the commas

```
.replace(/,/g, ", ");
```

For the last comma, removes it and put in an 'and' instead...

```
.replace(/,(?=[^,]*$)/, ' and');
```

Complete This Form To Confirm Your Reservation

You have selected seats f82,f83,f84

First Name

Bob

Last Name

Jones

Confirm Reservation

Or [cancel](#) and choose different seats

Fixed!

```
if(selectedSeats.length > 0){  
    document.getElementById('confirmres').style.display = "block";  
  
    let seatsString = selectedSeats.toString();  
    seatsString = seatsString.replace(/,/g, ", ");  
    seatsString = seatsString.replace(/,(?=[^,]*$)/, ' and');  
  
    document.getElementById("selectedseats").innerHTML=`You have selected seats ${seatsString}`;  
}
```

Much better!

Oh, One More Thing...

One last thing to fix. If only one seat is selected, the plural 'seats' doesn't make sense.

What can you do to check if one seat is selected, or more than one seat is selected, and then show the correct message?

Reserve Your Seats

Complete This Form To Confirm Your Reservation

You have selected seats g97

First Name

Last Name

[Confirm Reservation](#)

Or [cancel](#) and choose different seats

79	80	81	82	83	84	85	86	87
94	95	96	97	98	99	100	101	102

Additional Condition Statement

```
if(selectedSeats.length > 0){
    document.getElementById('confirmres').style.display = "block";

    if(selectedSeats.length === 1){
        document.getElementById("selectedseats").innerHTML=`You have selected seat ${selectedSeats[0]}`;
    }
    else{
        let seatsString = selectedSeats.toString();
        seatsString = seatsString.replace(/,/g, ", ");
        seatsString = seatsString.replace(/,(?=[^,]*$)/, ' and');

        document.getElementById("selectedseats").innerHTML=`You have selected seats ${seatsString}`;
    }
}
```

Checking the length of the selectedSeats array will allow you to construct the correct string.

```
function manageConfirmForm(){

    if(selectedSeats.length > 0){
        document.getElementById('confirmres').style.display = "block";

        if(selectedSeats.length === 1){
            document.getElementById("selectedseats").innerHTML=`You have selected seat ${selectedSeats[0]}`;
        }
        else{
            let seatsString = selectedSeats.toString();
            seatsString = seatsString.replace(/,/g, " ");
            seatsString = seatsString.replace(/,(?=[^,]*$)/, ' and');

            document.getElementById("selectedseats").innerHTML=`You have selected seats ${seatsString}`;
        }
    }

    else{
        document.getElementById('confirmres').style.display = "none";

        document.getElementById("selectedseats").innerHTML= 'You need to select some seats to reserve.<br><a href="#" id="error">Close</a> this dialog box and pick at least one seat.';

        document.getElementById('error').addEventListener('click', function(){
            document.getElementById('resform').style.display="none";
        });
    }
}
```

Summary

There is a lot to consider in terms of what users might do, and the messages they need for this part of the project. It is probably the hardest part, even though the JavaScript was not terribly difficult.