



Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:

<https://github.com/Jasper-Halt/Week5-CodingAssignment>

URL to Video Explanation (Dropbox):

<https://www.dropbox.com/s/rby3roryvvyqcusa/Jasper%20Halt%20-%20Week%204%20Coding%20Video.mp4?dl=0>

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

1. Create a menu app as seen in this week's video. What you create is up to you as long as it meets the following requirements.
 - a. Use at least one array.
 - b. Use at least two classes.
 - c. Your menu should have the options to create, view, and delete elements.



PROMINEO TECH

Screenshots of Code:

```
1 class Reservations { // creates class for each reservation.
2   constructor(name) {
3     this.name = name;
4     this.guests = []; // creates an array to contain the names of additional guests for each reservation.
5   }
6 }
7 class Guest { // creates class for guests
8   constructor(name) { // passes in name for each guest
9     this.name = name;
10  }
11 }
12 class Menu { // creates class for the menu that will be the interface.
13   constructor() {
14     this.reservations = []; // creates an array to contain the primary reservation names.
15     this.selectedReservation = null; // starting value is "null" because, at start, no reservations have been selected.
16   }
17   start () { // add a method for the menu start.
18     let selection = this.showMainMenuOptions();
19     while (selection !== 0) {
20       switch (selection) { // a switch statement to lay out the main menu options.
21         case "1":
22           this.createReservation();
23           break;
24         case "2":
25           this.editReservation();
26           break;
27         case "3":
28           this.deleteReservation();
29           break;
30         case "4":
31           this.displayReservations();
32           break;
33         default:
34           selection = 0;
35       }
36       selection = this.showMainMenuOptions();
37     }
38   }
39   alert(
40     Thank you for using this RSVP app.
41
42     If you did not complete your reservation
43     or if any information changes,
44     please complete or update before the event.
45
46     We look forward to seeing you there!
47   ); //message that will be displayed if user selects "0" to exit the menu.
48   showMainMenuOptions() {
49     return prompt(`
50     Welcome to this RSVP app. Please select an option below:
51
52     0. Exit
53
54     1. Create a Reservation
55     2. Edit/View Reservation
56     3. Delete a Reservation
57     4. View All Reservations
58     `); //A multi-line string displaying the menu options.
59   }
60   showReservationMenuOptions(reservationInfo) { //a sub-menu for "Edit/View Reservations," allowing user to add or delete additional guests.
61     return prompt(`
62     Would you like to add an additional guest to your reservation?
63
64     0. Return to Main Menu
65
66     1. Add a Guest
67     2. Delete a Guest
68     -----
69     ${reservationInfo}
70     `);
71   }
```



PROMINEO TECH

```
72 | createReservation() { //creates "createReservation" function that is part of the main menu.
73 |   let name = prompt("Enter the primary name for your reservation.");
74 |   this.reservations.push(new Reservations(name));
75 | }
76 | editReservation() { //creates "editReservation" function that is part of the main menu.
77 |   let index = prompt("Enter the index for the reservation you wish to edit. The index for the first reservation is 0.");
78 |   if (index > -1 && index < this.reservations.length) {
79 |     this.selectedReservation = this.reservations[index];
80 |     let description = "Name on Reservation: " + this.selectedReservation.name + "\n" + "Additional Guests:" + "\n"; //displays guest name(s)
81 |     for (let i = 0; i < this.selectedReservation.guests.length; i++) {
82 |       description += i + " " + this.selectedReservation.guests[i].name + "\n"
83 |       + "This reservation is for a party of " + (this.selectedReservation.guests.length + 1) + "." + "\n"; //displays total size of party.
84 |     }
85 |     let selection = this.showReservationMenuOptions(description); //creates sub-menu to allow user to add/delete additional guests.
86 |     switch(selection) {
87 |       case "1":
88 |         this.createGuest();
89 |         break;
90 |       case "2":
91 |         this.deleteGuest();
92 |     }
93 |   }
94 | }
95 | createGuest() { // creates "createGuest" function that is part of the sub-menu.
96 |   let name = prompt("Enter name for new guest.");
97 |   this.selectedReservation.guests.push(new Guest(name)); //pushes new guest to the "guests" array.
98 | }
99 | deleteGuest() { // creates "deleteGuest" function that is part of the sub-menu.
100 |   let index = prompt("Enter the index of the guest you wish to delete. The index of the first entry will be 0");
101 |   if (index > -1 && index < this.selectedReservation.guests.length) {
102 |     this.selectedReservation.guests.splice(index, 1); //splice method removes a single guest at the specified index from the "guests" array.
103 |   }
104 | }
105 | deleteReservation() { //creates "deleteReservation" function that is part of the main menu.
106 |   let index = prompt("Enter the index of the reservation you wish to delete. The index for the first entry will be 0");
107 |   if (index > -1 && index < this.reservations.length) {
108 |     this.reservations.splice(index, 1); //splice method removes a single reservation at the specified index from the "reservations" array.
109 |   }
110 | }
111 | displayReservations() { //creates "displayReservations" function that is part of the main menu.
112 |   let reservationString = " "; //creates a blank string
113 |   for (let i = 0; i < this.reservations.length; i++) { //iterates through the reservations so that it displays all that are created.
114 |     reservationString += i + " " + this.reservations[i].name + " has confirmed for this event." + "\n"
115 |     + "Select Edit/View " + this.reservations[i].name + "'s reservation from the main menu for more details." + "\n";
116 |   }
117 |   alert(reservationString);
118 | }
119 |
120 | }
121 | let menu = new Menu();
122 | menu.start(); //executes the code and starts the menu.
```



Screenshots of Running Application:

This page says

Welcome to this RSVP app. Please select an option below:

- 0. Exit
- 1. Create a Reservation
- 2. Edit/View Reservation
- 3. Delete a Reservation
- 4. View All Reservations

OK

Cancel

This page says

Enter the primary name for your reservation.

OK

Cancel

This page says

Enter the index for the reservation you wish to edit. The index for the first reservation is 0.

OK

Cancel



PROMINEO TECH

This page says

Would you like to add an additional guest to your reservation?

0. Return to Main Menu

1. Add a Guest

2. Delete a Guest

Name on Reservation: Tom Thumb

Additional Guests:

OK

Cancel

This page says

Would you like to add an additional guest to your reservation?

0. Return to Main Menu

1. Add a Guest

2. Delete a Guest

Name on Reservation: Tom Thumb

Additional Guests:

0) Thumbelina

This reservation is for a party of 2.

OK

Cancel



PROMINEO TECH

This page says

0) Tom Thumb has confirmed for this event.
Select Edit/View Tom Thumb's reservation from the main menu for more details.

OK

This page says

Enter the index of the reservation you wish to delete. The index for the first entry will be 0

OK

Cancel

This page says

Thank you for using this RSVP app.

If you did not complete your reservation
or if any information changes,
please complete or update before the event.

We look forward to seeing you there!

OK