



## Intro to JavaScript Week 5 Coding Assignment

**Points possible:** 75

**URL to Your GitHub Repository:**

[https://github.com/soppon323/JS\\_MenuDrivenApp](https://github.com/soppon323/JS_MenuDrivenApp)

**URL to Your Coding Assignment Video:**

[https://drive.google.com/file/d/1XV3\\_kvOZfRMPnGXCGJwN1vWsbcaur0z/view?usp=sharing](https://drive.google.com/file/d/1XV3_kvOZfRMPnGXCGJwN1vWsbcaur0z/view?usp=sharing)

**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.

### Video Steps:

Create a video, up to five minutes max, showing and explaining how your project works with an emphasis on the portions you contributed. This video should be done using screen share and voice over. This can easily be done using Zoom, although you don't have to use Zoom, it's just what we recommend. You can create a new meeting, start screen sharing, and start recording. This will create a video recording on your computer. This should then be uploaded to a publicly accessible site, such as YouTube, Dropbox, or Google Drive. **MAKE SURE THE LINK YOU SHARE IS PUBLIC or UNLISTED.** If it is not accessible by your grader, your project will be graded based on what they can access. The link should be pasted in the submission text box after



# PROMINEO TECH

the GitHub repo link. REQUIRED: PUBLIC link to video, and GitHub repo link with everything listed above!

## Screenshots of Code:

```
JS index.js > Menu > viewWard
1  class Ward {
2      constructor(name) {
3          this.name = name;
4          this.Patients = [];
5      }
6
7      addPatient(patient) {
8          if (patient instanceof Patient) {
9              this.patients.push(patient);
10         } else {
11             throw new Error(`You can only add an instance of Patient. Argument is
not a Patient: ${Patient}`);
12         }
13     }
14
15     describe() {
16         return `${this.name} has ${this.Patients.length} Patients.`;
17     }
18 }
19
20 class Patient {
21     constructor(name,age,sex) {
22         this.name = name;
23         this.age = age;
24         this.sex = sex;
25     }
26
27     describe() {
28         return `${this.name} is a Patient of Benedict Sloane Hospital`;
29     }
30 }
31
32
33
```



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```
34 class Menu {
35     constructor() {
36         this.wards = [];
37         this.selectedWard = null;
38     }
39
40     start () {
41         let selection = this.showMainMenuOptions();
42
43         while (selection != 0) {
44             switch (selection) {
45                 case '1':
46                     this.createWard();
47                     break;
48                 case '2':
49                     this.viewWard();
50                     break;
51                 case '3':
52                     this.displayWards();
53                     break;
54                 case '4':
55                     this.deleteWard();
56                     break;
57                 default:
58                     selection = 0;
59             }
60             selection = this.showMainMenuOptions();
61         }
62
63         alert("Goodbye! You've been logged out");
64     }
65
66     showMainMenuOptions() {
```



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```
66     showMainMenuOptions() {
67         return prompt(`
68             0) Exit
69             1) Create new Ward
70             2) View ward
71             3) Display all wards
72             4) Delete ward
73         `);
74     }
75
76     showWardMenuOptions(wardInfo) {
77         return prompt(`
78             0) Back
79             1) Create Patient
80             2) Delete Patient
81             -----
82             ${wardInfo}
83         `);
84     }
85
86     displayWards() {
87         let wardString = '';
88         for (let i = 0; i < this.wards.length; i++) {
89             wardString += i + ') ' + this.wards[i].name + '\n';
90         }
91         alert(wardString);
92     }
93
94     createWard() {
95         let name = prompt ('Enter name for new ward. E.g., "Covid Ward, ICU ...
96         "");
97         this.wards.push(new Ward(name));
```



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```
99     viewWard() {
100         let index = prompt('Enter the index of the ward you wish to view:');
101         if (index > -1 && index < this.wards.length) {
102             this.selectedWard = this.wards[index];
103             let description = 'ward name: ' + this.selectedWard.name + '\n';
104
105             for (let i = 0; i < this.selectedWard.Patients.length; i++) {
106                 description += i + ') ' + this.selectedWard.Patients[i].name +
107                 " - (" + this.selectedWard.Patients[i].age + ") - " + this.
108                 selectedWard.Patients[i].sex + '\n';
109             }
110
111             let selection = this.showWardMenuOptions(description);
112             switch (selection) {
113                 case '1':
114                     this.createPatient();
115                     break;
116                 case '2':
117                     this.deletePatient();
118             }
119         }
120     }
121
122     deleteWard() {
123         let index = prompt('Enter the index of the ward you wish to delete:');
124         if (index > -1 && index < this.wards.length) {
125             this.wards.splice(index, 1);
126         }
127     }
128 }
```



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```
127     createPatient() {
128         let name = prompt('enter name for new Patient');
129         let age = prompt('enter age for new Patient');
130         let sex = prompt('enter a sex for new Patient, Male or Female:');
131
132         this.selectedWard.Patients.push(new Patient(name,age,sex))
133     }
134
135     deletePatient() {
136         let index = prompt('Enter the index of the Patient you want to delete:');
137         if (index > -1 && index < this.selectedWard.Patients.length) {
138             this.selectedWard.Patients.splice(index,1);
139         }
140     }
141 }
142
143
144 let menu = new Menu();
145 menu.start();
146
147
148
149
```

**Screenshots of Running Application:**



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🌐 file://

0) Back  
1) Create Patient  
2) Delete Patient  
-----  
ward name: FLU WARD  
0) Sam - (23) - Male

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Cancel OK

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enter a sex for new Patient, Male or Female:

☐ Prevent this page from creating additional dialogs

Cancel OK



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enter age for new Patient

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Cancel OK

🌐 file://

enter name for new Patient

☐ Prevent this page from creating additional dialogs

Cancel OK





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- 0) Back
- 1) Create Patient
- 2) Delete Patient

-----  
ward name: FLU WARD

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Cancel

OK



# PROMINEO TECH

 file://

- 0) Exit
- 1) Create new Ward
- 2) View ward
- 3) Display all wards
- 4) Delete ward

2|

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Cancel

OK

 file://

Enter name for new ward. E.g., "Covid Ward, ICU ..."

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Cancel

OK



# PROMINEO TECH

file://

- 0) Exit
- 1) Create new Ward
- 2) View ward
- 3) Display all wards
- 4) Delete ward

Cancel

OK

file://

Enter the index of the ward you wish to view:

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Cancel

OK