

Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:

https://github.com/soppon323/JS MenuDrivenApp

URL to Your Coding Assignment Video:

https://drive.google.com/file/d/1XV3_kvOZfRMPnGXCGJwN1vWsbcaxur0z/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 complet

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

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
      class Ward {
          constructor(name) {
              this.name = name;
              this.Patients = [];
          addPatient(patient) {
              if (patient instanceof Patient) {
                  this.patients.push(patient);
              } else {
                  throw new Error(`You can only add an instance of Patient. Argument is
                  not a Patient: ${Patient}`);
          describe() {
                  return `${this.name} has ${this.Patients.length} Patients.`;
      class Patient {
          constructor(name,age,sex) {
              this.name = name;
              this.age = age;
              this.sex = sex;
          describe() {
              return `${this.name} is a Patient of Benedict Sloane Hospital`;
```

```
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
              showMainMenuOptions() {
```

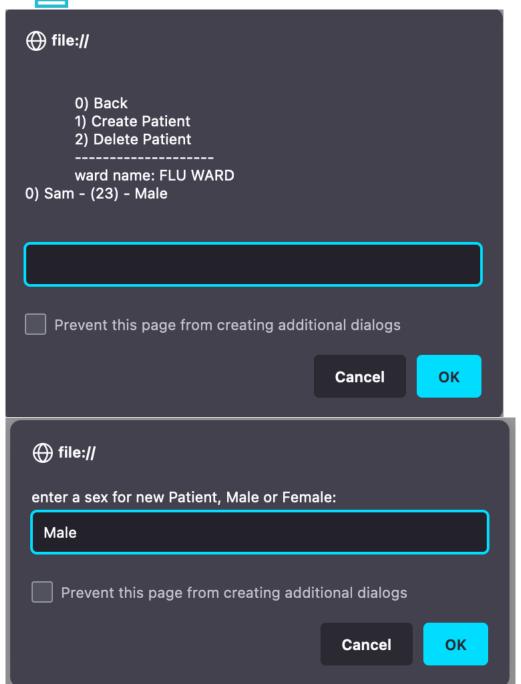
```
showMainMenuOptions() {
                 return prompt(`
                  0) Exit
                  1) Create new Ward
70
                  2) View ward
                  3) Display all wards
                  4) Delete ward
         showWardMenuOptions(wardInfo) {
              return prompt(`
                  0) Back
                  1) Create Patient
                  2) Delete Patient
                 ${wardInfo}
              `);
              displayWards() {
                  let wardString = '';
                  for (let i = 0; i < this.wards.length; i++) {</pre>
                     wardString += i + ') ' + this.wards[i].name + '\n';
                  alert(wardString);
              createWard() {
                  let name = prompt ('Enter name for new ward. E.g., "Covid Ward, ICU ...
                  this.wards.push(new Ward(name));
```

```
viewWard() {
00
                  let index = prompt('Enter the index of the ward you wish to view:');
01
                  if (index > -1 && index < this.wards.length) {</pre>
02
                      this.selectedWard = this.wards[index];
03
                      let description = 'ward name: ' + this.selectedWard.name + '\n';
04
05
                      for (let i = 0; i < this.selectrollord.Patients.length; i++) {</pre>
                          description += i + ') ' + t any {lectedWard.Patients[i].name +
06
                          " - (" + this.selectedWard.Patients[i].age + ") - " + this.
                          selectedWard.Patients[i].sex + '\n';
07
08
09
              let selection = this.showWardMenuOptions(description);
10
              switch (selection) {
11
                  case '1':
12
                      this.createPatient();
13
                      break;
14
                  case '2':
15
                      this.deletePatient();
16
17
18
19
20
          deleteWard() {
21
              let index = prompt('Enter the index of the ward you wish to delete:');
22
              if (index > -1 && index < this.wards.length) {</pre>
23
                  this.wards.splice(index,1);
24
```

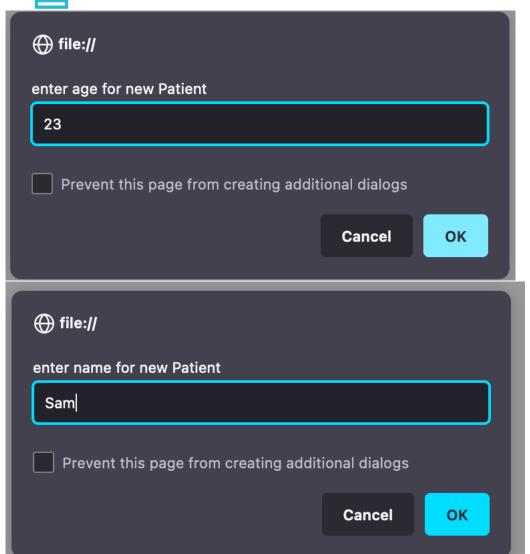
```
createPatient() {
128
               let name = prompt('enter name for new Patient');
129
               let age = prompt('enter age for new Patient');
130
               let sex = prompt('enter a sex for new Patient, Male or Female:');
131
132
               this.selectedWard.Patients.push(new Patient(name,age,sex))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

Screenshots of Running Application:

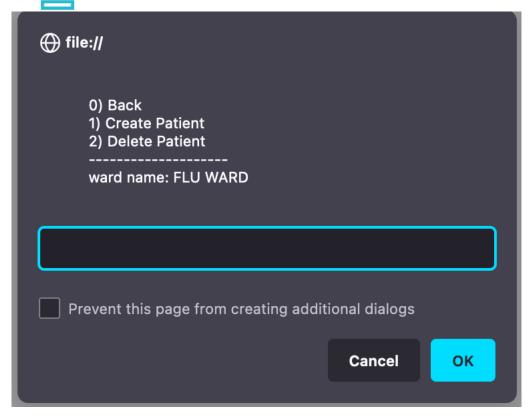














Cancel

OK

