

## Week 6 Practice Questions

Q1: Which of the following is true about session storage?

- A. It stores the data in the form of key value pairs in the browser for an origin.
- B. Data stored in session storage expires when page session ends.
- C. Session storage data persists even after the page session expires.
- D. None of the above

Answer: A and B

Solution: Session storage is cleared when a page session ends

(Ref: [https://developer.mozilla.org/en-US/docs/Web/API/Web\\_Storage\\_API](https://developer.mozilla.org/en-US/docs/Web/API/Web_Storage_API))

Q2: Which of the following is true about local storage?

- A. It stores the data in the form of key value pairs in the browser for an origin.
- B. Data stored in local storage expires when the page session ends.
- C. Local storage data persists even after the page session expires.
- D. None of the above

Answer: A and C

Solution: Some details about local storage can be found in below link

<https://developer.mozilla.org/en-US/docs/Web/API/Window/localStorage>

Q3: Consider the following Vue application with markup index.html, and javascript file app.js,

index.html:

```
<div id = "demo">
  <input v-model = "name" v-on:change = "check" />
  <p :class = "[isError ? 'btn btn-danger' : 'btn btn-success']"> Correct?
</p>
</div>
<script src = "app.js">
```

app.js:

```
const app = new Vue({
  el: '#demo',
  data: {
    name : "",
    isError : true,
  },
  mounted () {
    if (localStorage.name) {
      this.name = localStorage.name;
      this.isError = localStorage.isError;
    }
  },
  methods: {
    check: function () {

      if (this.name.length > 3)
        this.isError = false;
      else
        this.isError = true;

      localStorage.name = this.name;
      localStorage.isError = this.isError;
    }
  }
})
```

Say you open the “index.html” file in a browser, and write “abhi” in the text input shown on screen, and force reload the page (without clicking anywhere). What will be the value in the input text box and class applied to the paragraph element with text “Correct?”, respectively?

- A. ‘abhi’, ‘btn btn-success’
- B. Empty, ‘btn btn-success’
- C. ‘abhi’, ‘btn btn-danger’
- D. Empty, ‘btn btn-danger’

Answer: D

Solution: When you enter the text “abhi” in the text box and force reload the page (without clicking anywhere outside the text box), the “change” event will not be triggered. After force reloading the page, the mounted() hook will not be triggered, but the values of keys “name” and “isError” in the local storage are not present, so they will be initialized to their values defined in

the Vue app instance, which means, “name” will be initialized with an empty string, whereas, “isError” will get the value “true” (a boolean value).

Q4: Which of the following statement is false?

- A. In general, data should be validated at server side.
- B. The JavaScript validations at client side ensure that every request sent to the server is validated, and it need not be validated at server again.
- C. The browser provides simple validations for certain type of input elements.
- D. None of the above

Answer: B

Solution: In general, the data should always be validated at the server end even if all the validations are being done on front end using JavaScript, as a request may not always come through a browser, but can be sent using CLI utilities like curl.

The browser does provide simple validations for some inputs elements.

Q5: Which of the following is/are the advantage(s) of client-side storage?

- A. Saving web generated documents for offline use
- B. Storing personalized site preferences
- C. The data can be stored across devices.
- D. IndexedDB API is a kind of client-side storage which can be used for audio/video files.

Answer: A, B and D

Solution: For more information

[https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side\\_web\\_APIs/Client-side\\_storage](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Client-side_storage)

Q6: The below code is trying to validate a form, ensuring the number of items ordered are 10 and minimum of 2 items of each are added. Fill in **code1**.

index.html:

```

<form @submit.prevent="validateForm">
  <p v-if="errors.length">
    <b>Please correct the following error(s):</b>
    <ul>
      <li v-for="error in errors">{{ error }}</li>
    </ul>
  </p>
  <h1>
    Add to Grocery
  </h1>
  <p>
    <input
      v-model.number="bread" type="number"> Bread <br/>
    <input
      v-model.number="cheese" type="number"> Cheese <br/>
    <input v-model.number="butter" type="number"
name="butter"> Butter <br/>
  </p>
  <p>
    Total Items added : {{totalItems}}
  </p>
  <p>
    <input type="submit" value="Submit">
  </p>
</form>

```

app.js:

```

validateForm() {
  this.errors = [];
  if( code1){
    this.errors.push('Minimum quantity of each item should be 2');
  }
  if (this.total !== 10 ) {
    this.errors.push('Total items must be 10!');
  }

  if (!this.errors.length) {
    return true;
  }
}

```

```
}
```

- A. `this.bread<2 || this.cheese<2 || this.butter<2`
- B. `this.bread<2 && this.cheese<2 && this.butter<2`
- C. `this.bread<=2 || this.cheese<=2 || this.butter<=2`
- D. `this.bread<=2 && this.cheese<=2 && this.butter<=2`

Answer: A

Solution: The validation needs to check that none of the items are less than 2, if any of the items are less than 2, it should flag an error.

Q7: The extension of an SFC is \_\_\_\_\_.

- A. `*.js`
- B. `*.html`
- C. `*.vue`
- D. None of the above

Answer: C

Solution: In SFC, a single file has HTML, JavaScript and CSS. The file extension is `*.vue`

Q8: Which of the following Vue directives can be used to selectively display error messages?

- A. `v-if`
- B. `v-show`
- C. `v-html`
- D. Both A and B

Answer D

Solution : Both `v-if` and `v-show` can be used for conditional rendering ,difference being with `v-show` the element remains on the DOM and toggles the display CSS property of the element.

Q9: Form data validations can be done at:

- A. client-side
- B. server-side
- C. Both A and B
- D. only on the client-side

Answer: C

Solution: Depending on application requirement, validation can be done either on client or server end.