

Week 7 Practice Questions

Q1: Consider the following markup index.html and JavaScript app.js for a Vue application.

app.js:

```
const home = {
  template: `
    <h2> Home Page</h2>
  `,
}

const profile = {
  template: `
    <h2> Welcome {{this.$route.params.name}} </h2>
  `,
}

const routes = [
  { path: '/', component: home },
  { path: '/profile/:name', component: profile },
]

const router = new VueRouter({
  routes,
  base: '/',
})

const app = new Vue({
  el: '#app',
  router,
})
```

index.html:

```
<div id="app">
  <div>
    <router-link to="/"> Home </router-link>
    <router-link to="/profile/narendra"> Profile </router-link>
  </div>
  <router-view></router-view>
</div>
<script src="app.js"></script>
```

What will be rendered inside the router-view, when user loads the application for first time, and when user clicks on the link "Profile", respectively?

- A. Home Page, Welcome Narendra
- B. Welcome Narendra, Home Page
- C. Blank Page, Welcome Narendra
- D. None of the above

Answer: A

Solution: Because the base property of router object is '/'. The components related to '/'. Which is home will be rendered inside the router-view hence Home Page. Clicking on Profile will redirect the user to the path mentioned in 'to' prop. So, the component related to '/profile' will be rendered and the value of the route parameter 'name' will be 'narendra'. So, Option A is correct.

Q2: Which of the following component is used to render the component matched by the path in router-enabled app?

- A. router-view
- B. router-link
- C. router-model
- D. None of the above

Answer: A

Solution: router-view component is used to render the component matched by the path in router-enabled app.

Q3: Which of the following component is used to enable user navigation in router-enabled app?

- A. router-view
- B. router-link
- C. router-model
- D. None of the above

Answer: B

Solution: router-view is used to enable user navigation in router enabled app.

Q4: By default, router-link is rendered as tag?

- A. <h4>
- B.
- C.
- D. <a>

Answer: D

Solution: By default, router-link is rendered as <a> tag.

Q5: Which of the following statement(s) is/are true regarding Vuex?

- A. Vuex has to be used in all Vue applications.
- B. It is a state management library for Vue.js applications.
- C. It is most useful for medium to large scale SPAs.
- D. The state in a store should not be updated directly (i.e, without mutations).

Answer B, C and D

Solution: Vuex is a state management library for Vue.js applications, which helps create a centralized store for all components in an application. This is especially useful in medium/ large scale applications. State should be changed only through mutations, so that the changes can be tracked easily (on Vue DevTools).

Q6: Which of the following should be used in order to compute derived state based on store state, e.g. filtering through a list of data etc.?

- A. Mutations
- B. Getters
- C. Actions
- D. State

Answer B

Solution: Getters are used. Vuex allows us to write methods /handlers which can compute derived state based on store state.

Q7: Which of the following statements is true regarding Vuex?

- A. Mutation are always synchronous.
- B. Actions can be asynchronous.
- C. It is allowed to commit a mutation within an action handler.
- D. All of the above

Answer D

Solution: One should change the state only through mutation handlers, so that the DevTools can capture the state changes. So it is important that these handlers are synchronous, so that every mutation can be logged. Whereas the **Action** handlers can be asynchronous, and in turn the action handlers can commit mutations within it.

Q8: Which of the following statements holds good for Single-page applications (SPA)?

- A. SPA loads only a single web document and then updates body content dynamically as and when required.
- B. SPAs are faster, and gives a better user experience.
- C. Some frameworks supporting SPA are AngularJS, ReactJS and VueJS.
- D. All of the above

Answer D

Solution: In SPA, dynamic updation of the page happens instead of the browser loading a whole new page, which in turn makes transactions faster and gives a better user experience.

Q9: When a component needs to make use of multiple store state properties, which of the below can we make use of?

- A. mapGetters
- B. mapState
- C. mapActions
- D. None of the above

Answer: B

Solution: The “mapState” helper, generates computed getter functions for us, which helps us avoid some repetitive coding.

Q10: Which of the following applications is not an example of an SPA?

- A. mail.google.com
- B. drive.google.com
- C. twitter.com
- D. wikipedia.org

Answer: D