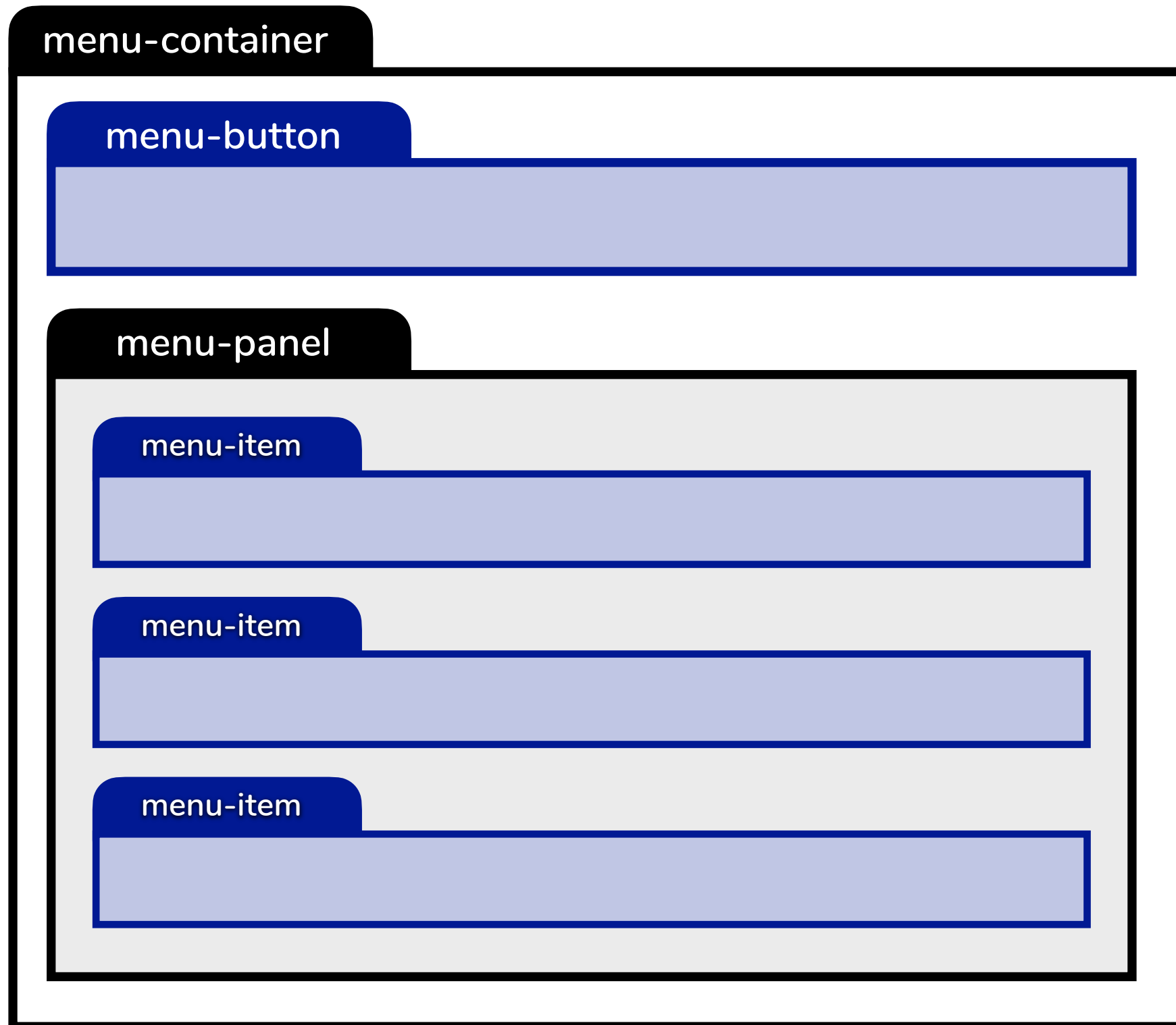


My Bookstore Hamburger Menu

**Hamburger Menu with Submenu Dropdown using
HTML, CSS, and Vue.js**

Menu Structure



```
<template>
  <div class="main-menu-container">
    <button class="button icon-button main-menu-button">
      <i class="fas fa-bars"></i>
    </button>
    <ul class="main-menu-panel">
      <router-link to=" ../category/classics" tag="li" class="main-menu-item">
        Classics
      </router-link>
      <router-link to=" ../category/fantasy" tag="li" class="main-menu-item">
        Fantasy
      </router-link>
      <router-link to=" ../category/mystery" tag="li" class="main-menu-item">
        Mystery
      </router-link>
      <router-link to=" ../category/romance" tag="li" class="main-menu-item">
        Romance
      </router-link>
    </ul>
  </div>
</template>
```

Hover Dropdown

```
.main-menu-panel {  
  display: none;  
  position: absolute;  
  right: 0;  
  background-color: #4e4e4e;  
  color: white;  
  cursor: pointer;  
}
```

By default, don't display the panel

The right edge of the panel should be aligned with the right edge of the container

```
.main-menu-container:hover .main-menu-panel {  
  display: block;  
}
```

When the mouse is anywhere over the container, display the panel

Box Shadow

```
.main-menu-panel {  
  display: none;  
  position: absolute;  
  right: 0;  
  background-color: #4e4e4e;  
  color: white;  
  cursor: pointer;  
  box-shadow: 0 0 10px 0 #0008;  
}
```

x and y
offsets

blur and spread
radius

rgba color:
#abcd is short for #aabbccdd

Data and Methods

```
<script>
export default {
  name: "HeaderDropdownMenu",
  data: function () {
    return {
      mainMenuOpen: false,
    };
  },
  methods: {
    toggleMainMenu() {
      this.mainMenuOpen = !this.mainMenuOpen;
    },
  },
};
</script>
```

Boolean variable with
default value of false

Toggles the Boolean;
"this" is required

@click and .main-menu-open

```
<template>
  <div class="main-menu-container">
    <button class="button icon-button main-menu-button"
      @click="toggleMainMenu">
      <i class="fas fa-bars"></i>
    </button>
    <ul class="main-menu-panel" :class="{ 'main-menu-open': mainMenuOpen }">
      ...
    </ul>
  </div>
</template>
```

If data mainMenuOpen is true,
include class main-menu-open

```
<style scoped>
.main-menu-container { ...

.main-menu-panel { ...

.main-menu-open {
  display: block;
}
```

If an element includes class
main-menu-open, display it

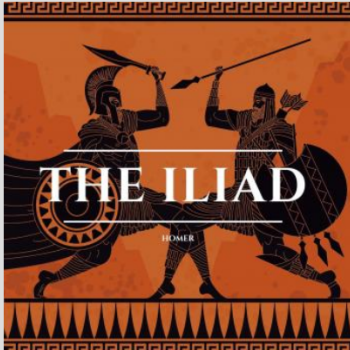
hamburger-demo

localhost:8080/DrKBookstoreVue/category/fantasy

My Bookstore

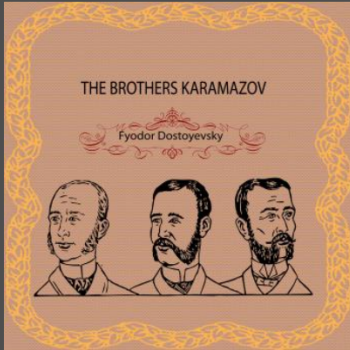
Enter search Gregory 8

Classics Fantasy Mystery Romance




The Iliad
Homer
\$6.99

ADD TO CART



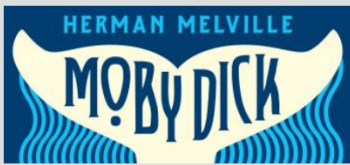
The Brothers Karamazov
Fyodor Dostoyevsky
\$13.99

ADD TO CART



Little Dorrit
Charles Dickens
\$5.99

ADD TO CART



Inspector Console Debugger Network Style Editor Performance Memory Storage

Ready. Detected Vue 2.6.14.

Filter components

- <Root>
 - <App>
 - <AppHeader>
 - <HeaderDropdownMenu> = \$vm0
 - <RouterLink>
 - <RouterLink>
 - <Category> router-view: /category/:name
 - <AppFooter>

Filter inspect

<HeaderDropdownMenu>

- data
 - \$route
 - mainMenuOpen: false

Vue Devtools should always show you the correct value for data in a component, like `mainMenuOpen`. However, if there is nothing on the page that is *using* that data, Vue Devtools may not work correctly.

To see this, get rid of the class binding from the main menu panel, but keep the click handler. You would expect Vue Devtools to toggle the value of `mainMenuOpen` whenever the main menu button is clicked, but it does not. This is a known issue with Vue Devtools

Modified Main Menu

- Classics => Categories
 - "to" stays the same (Classics category)
- Fantasy => Search
 - "to" goes to welcome page
- Mystery => Account
 - "to" goes to welcome page
- Romance => Cart (8)
 - "to" goes to welcome page

Category Submenu

```
<ul class="main-menu-panel" :class="{ 'main-menu-open': mainMenuOpen }>
  <li class="sub-menu-container">
    <router-link
      to=" ../category/classics"
      class="main-menu-item sub-menu-button"
    >
      Categories
    </router-link>
    <ul class="sub-menu-panel">
      ...
    </ul>
  </li>
  <router-link ... > Search </router-link>
  <router-link ... > Account </router-link>
  <router-link ... > Cart (8) </router-link>
</ul>
```

The router-link cannot be the sub-menu container, because then all sub-menu items would link to the classics category

Now Categories is both a main-menu item and a sub-menu button


We loose tag="li", so this router-link element becomes an anchor tag <a> in the rendered HTML

Since style is scoped, we can ensure all link states in this component have color white

```
a,
a:active,
a:hover,
a:visited {
  color: white;
}
```


Submenu CSS

```
.sub-menu-panel {  
  background-color: #333;  
}
```




Background color is a little darker

```
.sub-menu-item {  
  display: inline-block;  
  width: 100%;  
  height: 100%;  
  padding: 0.5em 3em;  
  white-space: nowrap;  
  text-decoration: none;  
}
```



top and bottom padding is tighter

```
.sub-menu-item:hover {  
  background-color: var(--primary-color-dark);  
}
```



hover background color is a little darker

Transitions

- Simplest type of animation
- A transition occurs when a CSS property on an element changes
- Transitions can only occur on properties that take real numbers
- The animated element exists before and after the transition

Main Menu Transition

```
.main-menu-panel {  
  position: absolute;  
  right: -1rem;  
  margin-top: 1rem;  
  transform: translateX(100%);  
  transition-duration: 500ms;  
  transition-property: transform;  
  transition-timing-function: ease-in-out;  
  background-color: #4e4e4e;  
  color: white;  
  cursor: pointer;  
}  
  
.main-menu-panel.main-menu-open {  
  transform: translateX(0);  
  box-shadow: 0 0 10px 0 #0008;  
}
```

JavaScript for Sub Menu Transition

```
<script>
export default {
  name: "HeaderDropdownMenu",
  data: function () {
    return {
      mainMenuOpen: false,
      subMenuOpen: false,
    };
  },
  methods: {
    toggleMainMenu() {
      this.mainMenuOpen = !this.mainMenuOpen;
      if (!this.mainMenuOpen) {
        this.subMenuOpen = false;
      }
    },
    toggleSubMenu() {
      this.subMenuOpen = !this.subMenuOpen;
    },
  },
};
</script>
```

HTML for Sub Menu Transition

```
<template>
  <div class="main-menu-container">
    <button class="button icon-button main-menu-button"
      @click="toggleMainMenu">
      <i class="fas fa-bars"></i>
    </button>
    <ul class="main-menu-panel" :class="{ 'main-menu-open': mainMenuOpen }">
      <li class="sub-menu-container">
        <div class="sub-menu-button" @mouseover="toggleSubMenu">
          <router-link to=" ../category/classics" class="main-menu-item">
            Categories
          </router-link>
        </div>
        <ul class="sub-menu-panel" :class="{ 'sub-menu-open': subMenuOpen }">
          ...
        </ul>
      </li>
    </ul>
  </div>
</template>
```


CSS for Sub Menu Transition

```
.sub-menu-panel {  
  max-height: 0;  
  overflow-y: hidden;  
  transition: max-height 400ms ease-in-out;  
  background-color: #333;  
}  
  
.sub-menu-panel.sub-menu-open {  
  max-height: 10em;  
}
```