

# Exam 4 - Part 1: Pet Adoption Center Project

#### **Instructions:**

Today you will build a small Vue 3 project using what you've learned so far.

This is an open book, open notes, open conversation lab.

At the end of class, you must push your completed project and your notes to GitHub.

You are encouraged to ask questions, help each other, and use your notes.

✓ Bootstrap is optional for styling.

# **Project Overview:**

You are creating a **Pet Adoption Center** with:

- A **Home page** that welcomes users
- A **Pets page** that displays a list of pets
- A Nav bar that lets users navigate between pages
- A Search bar where users can type a pet's name and see if it is available for adoption
- **Props** passed to components
- An Event Emit from the Nav bar to App.vue
- Simple Router setup (no dynamic parameters)



# X Step-by-Step Instructions:

### 1. Create a new Vue project:

npm create vue@latest

Give it a project name of vue-exam4

Choose:

TypeScript: NO

JSX Support NO

• Router: YES

Pinia: NO

Vitest: NO

End-to end Testing NO

ESLint (error prevention) NO

### 2. Set up the basic file structure:

In your src/ folder:

```
components/
   Nav.vue
   PetCard.vue
views/
   Home.vue
   PetList.vue
App.vue
main.js
router/
   index.js (already created)
```

### 3. Router Configuration (router/index.js):

✓ Make sure you only have **two routes**:

```
import { createRouter, createWebHistory } from 'vue-router'
import Home from '../views/Home.vue'
import PetList from '../views/PetList.vue'

const routes = [
    { path: '/', component: Home },
    { path: '/pets', component: PetList }
]

const router = createRouter({
    history: createWebHistory(import.meta.env.BASE_URL),
    routes
})

export default router
```

### 4. App.vue

- ✓ Your App.vue will:
  - Import Nav.vue
  - Hold the pets array and search result message
  - Pass props (pets) down to router-view
  - Handle search logic from Nav.vue

#### Example outline:

```
<script>
1
2
    import Nav from './components/Nav.vue'
3
    export default {
 4
 5
      components: { Nav },
 6
      data()-{
7
      - return {
8
     · · · pets: [
9
     10
     ······{·id:·3, name: "Tweety", type: "Bird", age: 1, adopted: true },
11
12
     13
     . . . . . ],
       searchResult: ''
14
      · · }
15
     ⋅},
16
17
      methods: {
18
      handleSearch(name) {
19
       const pet = this.pets.find(pet => pet.name.toLowerCase() === name.
         toLowerCase());
     - | · | · · if · (pet) · {
20
     this.searchResult = `${pet.name} is ${pet.adopted ? "adopted" :
21
          "available"}`;
22
     · · · · } · else · {
     this.searchResult = `No pet found by the name ${name}.`;
23
24
25
      . . . }
     . }
26
27
28
    </script>
29
30
    <template>
31
     ··<div>
32
     <Nav @search-pet="handleSearch" />
33
     {{ searchResult }}
34
     <router-view :pets="pets" />
35
    ··</div>
36
    </template>
37
```

### 5. Nav.vue

- ✓ Create a navigation bar with:
  - Two router-links (Home and Pets)
  - A search input and button that emits a search event

#### Example:

```
1
    <script>
2
    export default {
3

    data() ⋅{
4
    ···return {
5
    ••• searchName: ''
    | - - | - - }
7
    ⋅⋅},
8
    methods: {
9
    ···search() {
    this.$emit('search-pet', this.searchName);
10
    | - - | - - }
11
    · · }
12
13
14
    </script>
15
16
    <template>
17
    · · <nav>
    <router-link to="/">Home</router-link> |
18
    <router-link to="/pets">View Pets</router-link>
19
20
    ----<div>
21
22
    23
24
    ···</div>
25
    ··</nav>
26
    </template>
```

#### 6. Home.vue

Simple welcome page:

```
<template>
    <div>
        <h1>Welcome to the Pet Adoption Center!</h1>
        Find your next best friend today!
    </div>
</template>
```

### 7. PetList.vue

☑ Displays all pets passed as a prop:

#### 8. PetCard.vue

✓ Displays individual pet information:



## **Final Reminders:**

- ✓ Focus on simple functionality.
- Open book and notes are allowed today.
- ✓ Push your final project and notes to GitHub by the end of class.
- Prepare for Exam 4 Part 2 next class, where only your GitHub notes can be used.



"Build a small pet adoption app with two pages, a search bar, and display pets using props and emits."

