САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО

Дисциплина: Фронд-энд разработка

Отчет

Лабораторная работа 3 на тему: "Разработка одностраничного веб-приложения (SPA) с использованием фреймворка Vue.JS"

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Цель работы: Перенести написанный ранее сайт на фреймворк Vue.JS
Вариант 2 сайт для мероприятия

Ход работы: Роутер:

```javascript
import { createRouter, createWebHistory } from "vue-router";
import HomeView from "../views/HomeView.vue";
import LoginView from "../views/LoginView";
import RegisterView from "../views/RegisterView";
import UserView from "../views/UserView";
import CalendarView from "../views/CalendarView";

const routes = [
  {
    path: "/",
    name: "home",
    component: HomeView,
  },
  {
    path: "/login",
    name: "login",
    component: LoginView,
  },
  {
    path: "/register",
    name: "register",
    component: RegisterView,
  },
  {
    path: "/user",
    name: "user",
    component: UserView,
  },
  {
    path: "/calendar",
    name: "calendar",
    component: CalendarView,
  },
];

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

export default router;
```

Components
- EventItem.vue

```
<template>
  <div class="d-flex events" :id="itemId">
    <img class="search-image m-1" :src="imgUrl" alt="event" />
    <div
      style="width: 100%"
      class="d-flex flex-column justify-content-evenly ms-2"
    >
      <span style="color: gray" class="fw-bold"> {{ test }}</span>
      <span style="color: black" class="fw-bold"> {{ name }} </span>
      <span style="color: rgb(104, 91, 91)" class="fw-light">
        {{ type }} . {{ city }}, {{ country }}</span>
      >
      <div class="d-flex justify-content-between search-result-description">
        <span style="color: rgb(104, 91, 91)" class="fw-light"
          > {{ eventId }} attendees</span>
        >
        <svg
          style="color: rgb(104, 91, 91); margin-right: 10px"
          xmlns="http://www.w3.org/2000/svg"
          width="16"
          height="16"
          fill="currentColor"
          class="bi bi-box-arrow-up"
          viewBox="0 0 16 16"
        >
          <path
            fill-rule="evenodd"
            d="M3.5 6a.5.5 0 0 0-.5.5v8a.5.5 0 0 0 .5.5h9a.5.5 0 0 0 .5-.5v-8a.5.5 0 0 0-.5-.5h-2a.5.5 0 0 1 0-1h2A1.5 1.5 0 0 1 14 6.5v8a1.5
          />
          <path
            fill-rule="evenodd"
            d="M7.646.146a.5.5 0 0 1 .708 0l3 3a.5.5 0 0 1-.708.708L8.5 1.707V10.5a.5.5 0 0 1-1 0V1.707L5.354 3.854a.5.5 0 0 1-.708-.708l3-3z'
          />
        </svg>
      </div>
    </div>
  </div>
  <hr />
</template>

<script>
```

- GroupItem.vue

```
<template>
  <div class="d-flex groups" :id="itemId">
    <div class="search-image me-2">
      <img class="search-image m-1" :src="url" alt="group" />
    </div>
    <div
      style="width: 100%"
      class="d-flex flex-column justify-content-evenly ms-2"
    >
      <div class="d-flex">
        <span style="color: black" class="fw-bold me-2">{{ user }}</span>
        <div class="group-members">
          <i style="color: gray" class="fa fa-user"> {{ collections }}</i>
          <span style="color: gray"></span>
        </div>
      </div>
      <i class="fa fa-thumbs-up">: {{ likes }}</i>
      <i class="fa fa-eye">: {{ views }}</i>
      <div class="d-flex justify-content-between search-result-description">
        <span> Tags: {{ tags }}</span>
        <svg
          style="color: rgb(104, 91, 91); margin-right: 10px"
          xmlns="http://www.w3.org/2000/svg"
          width="16"
          height="16"
          fill="currentColor"
          class="bi bi-box-arrow-up"
          viewBox="0 0 16 16"
        >
          <path
            fill-rule="evenodd"
            d="M3.5 6a.5 0 0 0-.5.5v8a.5.5 0 0 0 .5.5h9a.5.5 0 0 0 .5-.5v-8a.5.5 0 0 0-.5-.5h-2a.5.5 0 0 1 0-1h2A1.5 1.5 0 0 1
          />
          <path
            fill-rule="evenodd"
            d="M7.646.146a.5.5 0 0 1 .708 0l3 3a.5.5 0 0 1-.708.708L8.5 1.707V10.5a.5.5 0 0 1-1 0V1.707L5.354 3.854a.5.5 0 0 1 1-.
          />
        </svg>
      </div>
    </div>
  </div>
</template>

<script>
export default {
  name: "GroupItem",
  props: {
    itemId: Number,
    url: String,
    user: String,
    collections: Number,
    likes: Number,
    views: Number,
    tags: String,
  },
};
</script>
```

LoginSocialBtn.vue

```
<template>
  <button
    class="d-flex login-button2 form-label justify-content-between"
    type="button"
  >
    <img
      class="login-icon align-self-center"
      :src="require(`../assets/images/${icon}`)"
    />
    <div class="fw-light fs-6">{{ text }}</div>
    <div></div>
  </button>
</template>

<script>
export default {
  name: "LoginSocialBtn",
  props: {
    text: String,
    icon: String,
  },
};
</script>

<style>
.login-button2 {
  cursor: pointer;
  color: □rgb(0, 0, 0);
  padding: 8px 12px;
  font-size: 1.25rem;
  line-height: 24px;
  height: 3rem;
  background-color: ■white;
  border: 1px solid ■#dbdbdb;
}
</style>
```

Представление: (RegisterView.vue):

```vue
1    <template>
2      <div class="container-fluid">
3        <form class="d-flex flex-column register-container">
4          <div class="mb-3 d-flex flex-column align-items-center">
5            <span class="fs-1 fw-bold">Sign up</span>
6          </div>
7          <div class="d-flex flex-column">
8            <SocialBtn text="Log in with Facebook" icon="facebook.jpg" />
9            <SocialBtn text="Log in with Google" icon="google-logo.jpg" />
10           <SocialBtn text="Log in with Apple" icon="apple-logo.png" />
11         </div>
12         <div class="d-flex items-center justify-content-between">
13           <div style="width: 45%" class="p-1 login-orline">
14             <hr />
15           </div>
16           <span class="p-1 login-orline">or</span>
17           <div style="width: 45%" class="p-1 login-orline">
18             <hr />
19           </div>
20         </div>
21         <div>
22           <div class="mb-3 fw-bold">
23             <label for="exampleInputEmail1" class="form-label" >Your name</label>
24             <input
25               type="email"
26               class="form-control"
27               id="exampleInputEmail1"
28               aria-describedby="emailHelp"
29               v-model="name"
30             />
31           </div>
32           <div class="mb-3 fw-bold">
33             <div class="flex space-between">
34               <label for="exampleInputPassword1" class="form-label font-semibold"
35                 >Email Address</label
36               >
37             </div>
38             <input
39               type="email"
40               class="form-control"
41               id="exampleInputPassword1"
```

```
42            v-model="email"
43          />
44        </div>
45        <div class="mb-3 fw-bold">
46          <div class="flex space-between">
47            <label for="exampleInputPassword1" class="form-label font-semibold"
48              >Password</label
49            >
50          </div>
51          <input
52            type="password"
53            class="form-control"
54            id="exampleInputPassword1"
55            v-model="pass"
56          />
57        </div>
58      </div>

59
60      <p class="pb-3 fw-light">
61        Your name is public. We'll use your email address to send you updates,
62        and your location to find Meetups near you
63      </p>
64      <Button
65        text="Continue"
66        classes="fw-bold mb-3"
67        @click.prevent="register"

68
69      />
70      <div class="text-center text-decoration-none fs-6">
71        When you "Continue", you agree to Meetup's
72        <a class="text-viridian text-decoration-none">Terms of Service</a>. We
73        will manage information about you as described in our
74        <a class="text-viridian text-decoration-none">Privacy Policy</a>, and
75        <a class="text-viridian text-decoration-none">Cookie Policy</a>.
76      </div>
77      <hr />
78      <div class="d-flex justify-content-center">
79        <span class="pe-1">Already a member?</span>
80        <a
81          href="login.html"
```

```
               href="login.html"
               class="text-decoration-none text-viridian"
               @click="goToPage('login')"
               @click.prevent
            >
              Log in.</a
            >
         </div>
       </form>
     </div>
   </template>

   <script>
   import SocialBtn from "../components/LoginSocialBtn.vue";
   import Button from "@/components/Button.vue";
   //import { assertExpressionStatement } from "@babel/types";
   import axios from 'axios'
   export default {
     name: "RegisterView",
     data: function(){
       return{
           name: '',
           email: '',
           pass: ''
       }
     },
     components: {
       SocialBtn,
       Button,
     },
     mounted(){

     },
     methods: {
       goToPage(page) {
         this.$router.push(`./${page}`);
       },
       async register(){
         const res = await axios.post(`http://localhost:3000/users`,{
           email: this.email,
           firstname: this.name,
```

```
106      },
107      components: {
108        SocialBtn,
109        Button,
110      },
111      mounted(){
112
113      },
114      methods: {
115        goToPage(page) {
116          this.$router.push(`./${page}`);
117        },
118        async register(){
119          const res = await axios.post(`http://localhost:3000/users`,{
120            email: this.email,
121            firstname: this.name,
122            password: this.pass
123          });
124          localStorage.setItem('user',JSON.stringify(res.data));
125          alert("User Successfully Registered");
126          this.$router.push({name: "home"})
127
128          console.log(this.name , this.email)
129          console.log(res)
130        }
131      },
132    };
133    </script>
134
135    <style>
136    .register-container {
137      border: 1px solid ▪#dbdbdb;
138      width: 550px;
139      height: 100%;
140      margin: 1rem auto;
141      border-radius: 6px;
142      padding: 4%;
143      box-sizing: border-box;
144    }
145    </style>
```

Представление: (LoginView.vue):

```
1   ∨ <template>
2   ∨   <div class="container-fluid">
3   ∨     <form class="d-flex flex-column login-container">
4   ∨       <div class="d-flex flex-column align-items-center mb-5">
5           <h1 class="pt-3 font-title-2 font-semibold">Log in</h1>
6   ∨       <div class="d-flex">
7             <span class="me-2"> Not a member yet?</span>
8             <router-link :to="{name: 'register'}"> Sign up</router-link>
9
10          </div>
11        </div>
12
13  ∨     <div>
14  ∨       <div class="mb-3 fw-bold">
15            <label for="exampleInputEmail1" class="form-label">Email</label>
16  ∨         <input
17              type="email"
18              class="form-control"
19              id="exampleInputEmail1"
20              aria-describedby="emailHelp"
21              v-model="email"
22            />
23          </div>
24
25  ∨       <div class="mb-3">
26  ∨         <div class="d-flex justify-content-between">
27  ∨           <label for="exampleInputPassword1" class="form-label fw-bold"
28                >Password</label
29              >
30  ∨           <a class="text-viridian text-decoration-none" href=""
31                >Forgot Password</a
32              >
33            </div>
34  ∨         <input
35              type="password"
36              class="form-control"
37              id="exampleInputPassword1"
38              v-model="pass"
39            />
40          </div>
```

```
        <div class="mb-3 form-check">
          <input type="checkbox" class="form-check-input" id="exampleCheck1" />
          <label class="form-check-label" for="exampleCheck1"
            >Keep me signed in</label
          >
        </div>
      </div>
      <Button
        text="Log In"
        classes="fw-bold"
        @click.prevent="LogIn"
      />
      <br />
      <!-- or -->
      <div class="d-flex items-center justify-content-between my-2">
        <div style="width: 45%" class="p-1 login-orline">
          <hr />
        </div>
        <span class="p-1 login-orline">or</span>
        <div style="width: 45%" class="p-1 login-orline">
          <hr />
        </div>
      </div>
      <!-- log in with -->
      <div class="d-flex flex-column">
        <SocialBtn text="Log in with Facebook" icon="facebook.jpg" />
        <SocialBtn text="Log in with Google" icon="google-logo.jpg" />
        <SocialBtn text="Log in with Apple" icon="apple-logo.png" />
      </div>
    </form>
  </div>
  <Footer />
</template>
```

Представление: (RegisterView.vue):

```
1    <template>
2      <main>
3        <div class="d-flex justify-content-center align-items-center">
4          <img class="px-3 pt-5 pb-5" src="../assets/images/avatar.png">
5          <div class="d-flex flex-column p-3">
6            <h1 class="fw-bold pb-2">Traore Mamoudou</h1>
7            <h3 class="fw-bold pb-3"> Member since September 2022</h3>
8            <div style="color:grey" class="d-flex">
9              <ion-icon class="px-1" name="location"></ion-icon>
10             <span>St. Petersburg</span>
11           </div>
12           <div style="color:grey" class="d-flex">
13             <ion-icon class="px-1" name="people"></ion-icon>
14             <span>Attended 0 Events</span>
15           </div>
16         </div>
17       </div>
18       <hr>
19       <div class="d-flex">
20         <div class="pa"></div>
21         <div style="width:100%" class="d-flex pa2">
22           <div class="d-flex align-items-center">
23             <h6 class="b5">1</h6>
24             <h6 class="fw-normal">Groups</h6>
25           </div>
26           <div class="m-3"></div>
27           <div class=" d-flex align-items-center">
28             <h6 class="b5">3</h6>
29             <h6 class="fw-normal">Interests</h6>
30           </div>
31           <Button text="Edit Profile" classes="ms-auto" />
32         </div>
33         <div class="pa"></div>
34       </div>
35       <hr>
36       <div class="d-flex">
37         <div class="pa"></div>
38         <div class="d-flex flex-column pa2">
39           <h2 class=" mt-5 mb-3 fw-bold">Groups</h2>
40           <div class="container">
41             <div class="row row-cols-3">
```

```
41              <div class="row row-cols-3">
42                <div class="col">
43                  <div class="d-flex g-box align-items-center i-g">
44                    <img class="me-3" src="../assets/images/group1.jpg">
45                    <h5 style="color: black;" class="fw-bold">Piter International </h5>
46                  </div>
47                </div>
48                <div class="col">
49                  <div class="d-flex g-box align-items-center i-g">
50                    <img class=" me-3" src="../assets/images/group2.jpg">
51                    <h5 style="color: black;" class="fw-bold">Robonomics network Meetup Group </h5>
52                  </div>
53                </div>
54              </div>
55            </div>
56            <h2 class=" mt-5 mb-3 fw-bold">Interests</h2>
57            <div class="d-flex">
58              <div class="pe-5"></div>
59              <span class="b6 me-2">Photography</span>
60              <span class="b6 me-2">Web Design</span>
61              <span class="b6 me-2">Python</span>
62
63            </div>
64            <div class="my-5"></div>
65          </div>
66          <div class="pa"></div>
67        </div>
68      </main>
69  </template>
```

Представление: (HomeView.vue):

```
1    <template>
2      <main>
3        <section class="d-flex align-items-center p-3">
4          <div class="pa"></div>
5          <div class="d-flex flex-column justify-content-center pa2">
6            <div class="fw-bold fs-4 pink m-1">BECOME AN ORGANIZER</div>
7            <span class="m-1 fs-3 fw-bolder f1">
8              We'll walk you through a few steps to build your local community</span>
9            >
10           <button class="b4 fw-bold m-1" type="submit">Get started</button>
11         </div>
12         <div class="pa"></div>
13       </section>
14       <section class="p-5"></section>
15       <section
16         style="background-color: #00455d"
17         class="d-flex align-items-center p-3"
18       >
19         <div class="pa"></div>
20         <div class="d-flex flex-column pa2">
21           <h1 style="color: white" class="pb-3 fs-3 fw-bold">
22             People start Meetup groups to make new friends, pursue passions, and
23             turn side hustles into careers.
24           </h1>
25           <div class="d-flex">
26             <img class="i-s" src="../assets/images/meeting.jpeg" />
27             <div
28               style="color: white"
29               class="d-flex flex-column justify-content-center"
30             >
31               <h4 class="pb-2">Make an impact</h4>
32               <p>
33                 "Hosting oyster tasting events on Meetup allows me to create a
34                 larger impact beyond my blog and get more people interested in and
35                 involved with sustainable seafood."
36               </p>
37               <p>Mamoudou . Saint-Petersbourg</p>
38             </div>
39           </div>
```

```html
        <div class="mb-5"></div>
      </div>
      <div class="pa"></div>
  </section>
  <section class="d-flex align-items-start p-3">
    <div class="pa"></div>
    <div class="d-flex flex-column pa2">
      <h1 class="pw-bold pb-3">Organize your way, on your schedule</h1>
      <div class="container">
        <div class="row row-cols-3">
          <div class="col">
            <div class="d-flex flex-column justify-content-evenly">
              <img src="../assets/images/section3-1.png" />
              <h2>Find your members</h2>
              <p>
                We'll help you find interested members and you can approve
                them to be sure they'll be a good fit for your community.
              </p>
            </div>
          </div>
          <div class="col">
            <div class="d-flex flex-column">
              <img src="../assets/images/section3-2.png" />
              <h2>Schedule events in minutes</h2>
              <p>
                Organizer tools make it easy to schedule and manage your
                events. You decide when, where, and how often your group
                meets.
              </p>
            </div>
          </div>
          <div class="col">
            <div class="d-flex flex-column">
              <img src="../assets/images/section3-3.png" />
              <h2>Have others help you host</h2>
              <p>
                You don't have to do it alone. Recruit a leadership team to
                help you host events and manage your group.
              </p>
            </div>
          </div>
```

```
 85        <div class="pa"></div>
 86      </section>
 87      <section class="p-5"></section>
 88      <section class="d-flex align-items-start p-3">
 89        <div class="pa"></div>
 90        <div class="d-flex flex-column justify-content-center pa2">
 91          <h1 class="pw-bold pb-3">What would you like your group to do?</h1>
 92          <p>Try starting simple with one of these common event formats</p>
 93          <div class="container">
 94            <div class="row row-cols-2">
 95              <div class="col">
 96                <div class="d-flex flex-column">
 97                  <img class="i-s2 mb-3" src="../assets/images/section4-1.jpg" />
 98                  <h2>Hang out</h2>
 99                  <p>
100                    Organize a get-together at a bar or local coffee shop to
101                    discuss something you're interested in
102                  </p>
103                  <a class="text-decoration-none text-viridian"
104                    >Start a group that hangs out ></a
105                  >
106                </div>
107              </div>
108              <div class="col">
109                <div class="d-flex flex-column">
110                  <img class="i-s2 mb-3" src="../assets/images/section4-2.jpg" />
111                  <h2>Learn</h2>
112                  <p>
113                    Teach a class, host a workshop, or invite guest speakers to
114                    share their expertise with the group.
115                  </p>
116                  <a class="text-decoration-none text-viridian"
117                    >Start a group that learns ></a
118                  >
119                </div>
120              </div>
121            </div>
122          </div>
123        </div>
124        <div class="pa"></div>
125      </section>
```

Работа с внешнем API для поиска мероприятии (CalendarView.vue)

```
computed: {},
methods: {
  updateSearch() {
    this.$store.commit("setSearch", {
      keywords: this.search.keywords.trim(),
      location: this.search.location.trim(),
    });
  },
  goToLogin() {
    this.$router.push("./login");
  },
  getItems() {
    if (this.search.keywords || this.search.location) {
      if (this.activeCategory === "groups") {
        fetch(
          `https://pixabay.com/api/?key=24339880-ad2e916d540f2e061b8fd1194&q=${this.search.keywords}+${this.search.location}`
        )
          .then((res) => res.json())
          .then((data) => {
            this.items.groups = data.hits;
          });
      } else {
        const query =
          this.search.keywords && this.search.location
            ? `${this.search.keywords}&venue.city=${this.search.location}`
            : `${this.search.keywords}+${this.search.location}`;
        const url = `https://api.seatgeek.com/2/events?client_id=MjQzNjQyMTl8MTYzNjQ4NDc0Ni44MzY0Njc3&q=${query}`;
        fetch(url)
          .then((res) => res.json())
          .then(async (data) => {
            this.items.events = await data.events;
          });
      }
    }
  }
},
```

Страницы приложения:
Главная

Страница для регистраций (Sign up)

Sign up

f	Log in with Facebook
G	Log in with Google
🍎	Log in with Apple

or

Your name

Omar

Email Address

ciss

Password

•••• 🔑⌄

Your name is public. We'll use your email address to send you updates, and your location to find Meetups near you

Continue

Страница для выхода на сайте (Login)

Log in

Not a member yet? Sign up

Email

Password   Forgot Password

☐ Keep me signed in

Log In

or

Log in with Facebook

Log in with Google

Log in with Apple

Страница для поиска evenement на сайте (Calendar)

Que voulez-vous trouver?

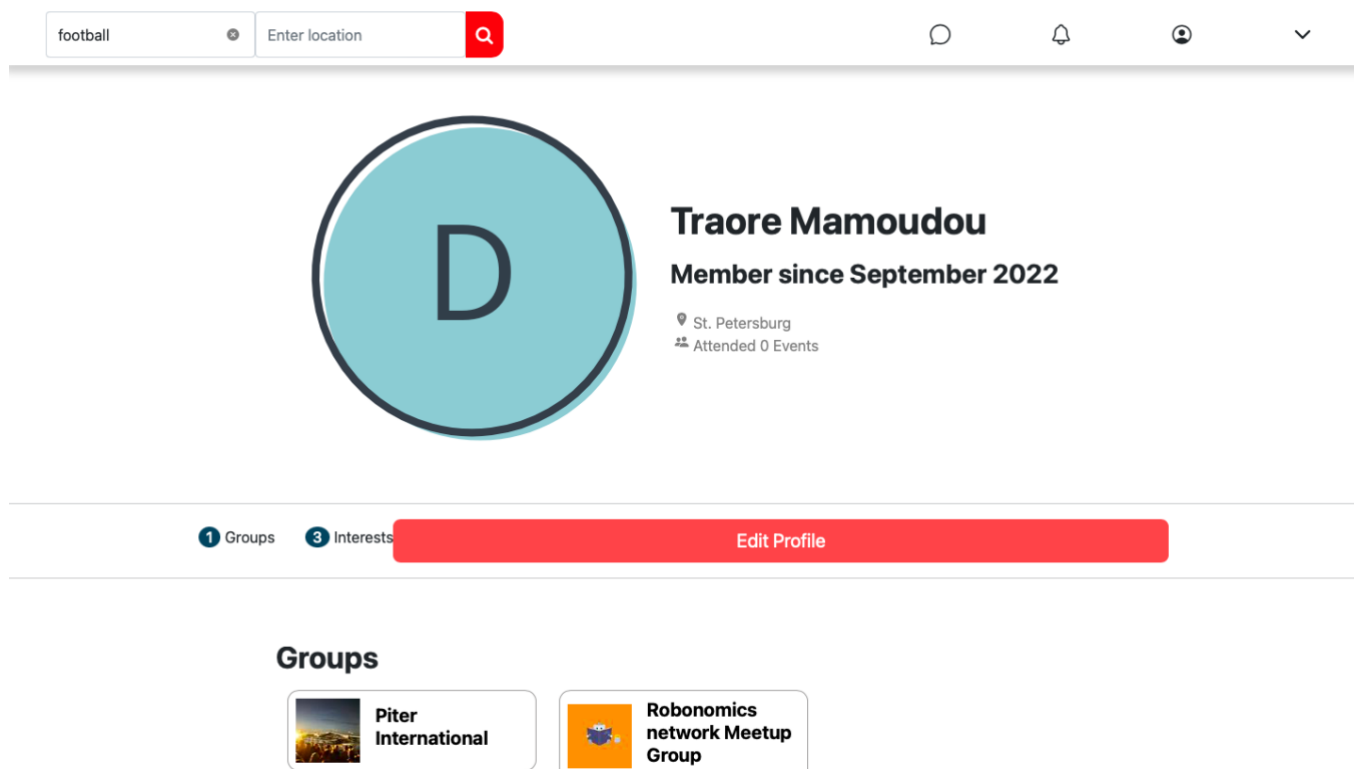| football | ⊗ | Enter location | 🔍 | Events | Groups |

2023-01-21 @ 16:00:00

Camping World Stadium

Football . Orlando, US

3721 attendees

2023-01-21 @ 21:30:00

GEHA Field at Arrowhead Stadium

Nfl . Kansas City, US

1128 attendees

2023-01-22 @ 01:15:00

Страница для пользователи (Users)

Вывод:

В ходе данной работы, ранее написанный сайт с помощью HTML, CSS и Javascript был перенесен на фреймворк Vue.JS. Библиотека axios дала возможность поработать с внешним API. Поскольку фреймворк Vue.