```
<template>
  <v-app>
    <v-system-bar app>
      <span
        style="text-overflow: ellipsis; overflow: hidden; white-space: nowrap"
      >
        Настройка индивидуального устройства
      </span>
      <v-spacer></v-spacer>
      <nobr>
        <span v-if="deviceConnectionStatus">
          <v-icon dense>mdi-usb</v-icon>{{ deviceConnectionPort }}
        </span>
          
        <span v-if="deviceConnectionStatus">
          <v-icon dense>mdi-checkbox-marked-circle-outline</v-icon>Подключен
        </span>
        <span v-else>
          <v-icon dense>mdi-close-circle-outline</v-icon>Отключен
        </span>
      </nobr>
    </v-system-bar>

    <v-main>
      <v-progress-linear
        v-if="!app.started"
        indeterminate
        color="indigo"
      ></v-progress-linear>

      <div v-if="!serverConnectionStatus && app.started">
        <v-container>
          <v-alert
            dense
            border="left"
            colored-border
            type="error"
            elevation="2"
          >
            Ошибка. Сервер недоступен либо выключен.
          </v-alert>
        </v-container>
      </div>

      <div v-if="serverConnectionStatus && app.started">
        <v-container fluid>
          <transition name="slide-fade">
            <v-alert
              v-if="no_comDevice"
              dense
              border="left"
              colored-border
              type="warning"
              elevation="2"
            >
              Нет доступных устройств
            </v-alert>
          </transition>
          <transition name="slide-fade">
            <v-form v-if="!deviceConnectionStatus">
```

```
61              <v-row>
62                <v-col cols="12" md="6" style="max-height: 65px">
63                  <v-select
64                    dense
65                    outlined
66                    :rules="formRules.comDevice"
67                    label="Устройство"
68                    item-text="name"
69                    item-value="port"
70                    v-model="input_comDevice"
71                    :items="comData.com_devices"
72                    :disabled="no_comDevice"
73                  ></v-select>
74                </v-col>
75
76                <v-col cols="12" md="2" style="max-height: 65px">
77                  <v-select
78                    :items="Object.values(comData.com_speed)"
79                    label="Скорость"
80                    outlined
81                    dense
82                    v-model="input_comSpeed"
83                    :disabled="no_comDevice"
84                  ></v-select>
85                </v-col>
86
87                <v-col cols="12" md="2" style="max-height: 60px">
88                  <v-btn
89                    outlined
90                    color="indigo"
91                    dense
92                    v-on:click="connectComDevice()"
93                    :disabled="
94                      no_comDevice ||
95                      tryingConnectComDevice ||
96                      tryingDisconnectComDevice ||
97                      input_comDevice == '' ||
98                      input_comSpeed == ''
99                    "
100                   :loading="tryingConnectComDevice"
101                 >
102                   Подключиться
103                 </v-btn>
104               </v-col>
105             </v-row>
106           </v-form>
107           <v-form v-if="deviceConnectionStatus">
108             <div class="d-flex justify-space-between">
109               <div style="overflow: hidden; text-overflow: ellipsis">
110                 <!--{{ deviceConnectionPort }}-->
111               </div>
112               <v-btn
113                 outlined
114                 color="red"
115                 dense
116                 v-on:click="disconnectComDevice()"
117                 :disabled="no_comDevice"
118                 :loading="tryingDisconnectComDevice"
119               >
120                 Отключиться
```

```
121              </v-btn>
122            </div>
123          </v-form>
124        </transition>
125
126        <transition name="slide-fade">
127          <v-content>
128            <v-card
129              style="
130                margin-bottom: 10px;
131                height: 200px;
132                overflow: scroll;
133                overflow-x: hidden;
134                font-family: monospace;
135                color: black;
136              "
137              id="terminal-window"
138            >
139              <v-card-text
140                :disabled="
141                  no_comDevice ||
142                  !deviceConnectionStatus ||
143                  tryingConnectComDevice ||
144                  tryingDisconnectComDevice
145                "
146              >
147                <div v-for="line in resp.chat" :key="line">
148                  <span v-if="line.author == 'user'" style="color: green">
149                    $~
150                  </span>
151                  <span
152                    v-else-if="line.author == 'device'"
153                    style="color: blue"
154                  >
155                    ->
156                  </span>
157                  {{ line.message }}
158                  <br />
159                </div>
160              </v-card-text>
161            </v-card>
162
163          <v-form>
164            <v-row no-gutters>
165              <v-col>
166                <v-text-field
167                  prefix="~$"
168                  solo
169                  style="font-family: monospace"
170                  :append-icon="'mdi-send'"
171                  @click:append="sendComCommand(input_comCommand)"
172                  :disabled="
173                    no_comDevice ||
174                    !deviceConnectionStatus ||
175                    tryingConnectComDevice ||
176                    tryingDisconnectComDevice
177                  "
178                  v-model="input_comCommand"
179                ></v-text-field>
180              </v-col>
```

```
              </v-row>
            </v-form>

            <v-btn
              style="display: block; margin-right: 0; margin-left: auto"
              class="mb-5"
              @click="clearButtons()"
              outlined
              color="red"
              :disabled="
                no_comDevice ||
                !deviceConnectionStatus ||
                tryingConnectComDevice ||
                tryingDisconnectComDevice ||
                input_comCommand == ''
              "
            >
              Очистить
            </v-btn>

            <v-row>
              <div v-for="i in 9" :key="i">
                <v-col style="min-width: 200px; width: 11vw">
                  <v-card dense>
                    <div class="text-center text-h6">{{ i }}</div>
                    <v-select
                      label="Действие"
                      item-text="caption"
                      item-value="id"
                      v-model="buttons[i]"
                      :items="SKB_device.actions"
                      outlined
                      dense
                      class="pa-2"
                      @change="changeSend()"
                      :disabled="
                        no_comDevice ||
                        !deviceConnectionStatus ||
                        tryingConnectComDevice ||
                        tryingDisconnectComDevice
                      "
                    ></v-select>
                  </v-card>
                </v-col>
              </div>
            </v-row>
          </v-content>
        </transition>
      </v-container>
    </div>
  </v-main>
  </v-app>
</template>

<script>
import axios from "axios";

export default {
  name: "App",

```

```
241    components: {},
242
243    data: () => ({
244      app: {
245        started: false,
246        isSendingCommand: false,
247      },
248
249      SKB_device: {
250        actions: [
251          { id: "1", caption: "Свет вкл." },
252          { id: "2", caption: "Свет выкл." },
253          { id: "3", caption: "Отопление вкл." },
254          { id: "4", caption: "Отопление выкл." },
255          { id: "5", caption: "Газ вкл." },
256          { id: "6", caption: "Газ выкл." },
257          { id: "7", caption: "Вода вкл." },
258          { id: "8", caption: "Вода выкл." },
259        ],
260      },
261
262      buttons: {},
263
264      resp: "",
265
266      comData: [],
267
268      input_comDevice: "",
269      input_comSpeed: 9600,
270      no_comDevice: false,
271      serverConnectionStatus: false,
272      deviceConnectionStatus: false,
273      deviceConnectionPort: "",
274      port: "",
275      tryingConnectComDevice: false,
276      tryingDisconnectComDevice: false,
277
278      input_comCommand: "",
279
280      serverUrl: "http://127.0.0.1:5000",
281
282      formRules: {
283        comDevice: [(v) => !!v || "Выберите устройство"],
284        comSpeed: [(v) => !!v || "Выберите скорость"],
285      },
286    }),
287
288    methods: {
289      changeSend() {
290        this.input_comCommand = "";
291        for (let i = 1; i <= 9; i++) {
292          if (this.buttons[i] != undefined)
293            this.input_comCommand +=
294              "butt " + i + " actn " + this.buttons[i] + " cl rs ";
295        }
296      },
297
298      clearButtons() {
299        this.input_comCommand = "";
300        this.buttons = {};
```

```
301        },
302
303      checkConnection() {
304        axios
305          .get(this.serverUrl + "/check", { timeout: 5000 })
306          .then((res) => {
307            if (res.data.server_working == "true") {
308              this.serverConnectionStatus = true;
309              this.app.started = true;
310            }
311
312            res.data.device_connected == "true"
313              ? (this.deviceConnectionStatus = true)
314              : (this.deviceConnectionStatus = false);
315            this.deviceConnectionPort = res.data.device_port;
316          })
317          .catch((error) => {
318            this.serverConnectionStatus = false;
319            this.app.started = true;
320            console.error(error);
321          });
322      },
323
324      getComDevices() {
325        if (!this.deviceConnectionStatus) {
326          axios
327            .get(this.serverUrl + "/com/show")
328            .then((res) => {
329              this.comData = res.data;
330
331              if (Object.keys(res.data.com_devices).length === 0) {
332                this.no_comDevice = true;
333              } else {
334                this.no_comDevice = false;
335              }
336            })
337            .catch((error) => {
338              console.error(error);
339            });
340        }
341      },
342
343      connectComDevice() {
344        this.tryingConnectComDevice = true;
345
346        const headers = {
347          "Content-Type": "application/json",
348        };
349
350        axios
351          .post(
352            this.serverUrl + "/com/connect",
353            {
354              port: this.input_comDevice,
355              speed: this.input_comSpeed,
356            },
357            {
358              headers: headers,
359            }
360          )
```

```
361        .then((response) => {
362          console.log(response.data);
363          this.resp = response.data;
364
365          response.data.reply == "success"
366            ? (this.deviceConnectionStatus = true)
367            : (this.deviceConnectionStatus = false);
368        })
369        .catch((error) => {
370          console.log(error);
371        })
372        .finally(() => {
373          this.tryingConnectComDevice = false;
374        });
375    },
376
377    disconnectComDevice() {
378      this.tryingDisconnectComDevice = true;
379
380      const headers = {
381        "Content-Type": "application/json",
382      };
383
384      axios
385        .post(
386          this.serverUrl + "/com/disconnect",
387          {
388            command: "disconnect",
389          },
390          {
391            headers: headers,
392          }
393        )
394        .then((response) => {
395          console.log(response.data);
396          //this.resp = response.data;
397
398          response.data.reply == "success"
399            ? (this.deviceConnectionStatus = false)
400            : (this.deviceConnectionStatus = true);
401        })
402        .catch((error) => {
403          console.log(error);
404        })
405        .finally(() => {
406          this.tryingDisconnectComDevice = false;
407          this.checkConnection();
408
409          this.resp = [];
410        });
411    },
412
413    sendComCommand() {
414      if (this.input_comCommand != "") {
415        this.app.isSendingCommand = true;
416
417        const headers = {
418          "Content-Type": "application/json",
419        };
420
```

```javascript
          axios
            .post(
              this.serverUrl + "/com/send",
              {
                command: this.input_comCommand,
              },
              {
                headers: headers,
              }
            )
            .then((response) => {
              console.log(response.data);
              this.resp = response.data;
            })
            .catch((error) => {
              console.log(error);
            })
            .finally(() => {
              let terminalWindow = this.$el.querySelector("#terminal-window");
              terminalWindow.scrollTop = terminalWindow.scrollHeight;

              this.app.isSendingCommand = false;
            });
        }
      },
    },

    mounted() {
      this.checkConnection();
      this.getComDevices();

      setInterval(
        function () {
          if (!this.app.isSendingCommand) this.checkConnection();
        }.bind(this),
        2000
      );

      setInterval(
        function () {
          this.getComDevices();
        }.bind(this),
        2000
      );
    },
};
</script>
<style scoped>
.fade-enter-active,
.fade-leave-active {
  transition: opacity 0.5s;
}
.fade-enter, .fade-leave-to /* .fade-leave-active до версии 2.1.8 */ {
  opacity: 0;
}

.slide-fade-enter-active {
  transition: all 0.1s ease;
}
.slide-fade-leave-active {
```

```
481      transition: all 0.1s ease;
482  }
483  .slide-fade-enter, .slide-fade-leave-to
484  /* .slide-fade-leave-active до версии 2.1.8 */ {
485      transform: translateY(-10px);
486      opacity: 0;
487  }
488  </style>
```