

src/layouts/MapLayout.vue

```
1 <template>
2   <div class="app-container">
3     <button class="menu-toggle-button" @click="toggleMenu" title="Abrir/Fechar Menu">≡</button>
4
5     <AppSidebar
6       :is-open="isMenuOpen"
7       :all-locais="allLocais"
8       :floors="floors"
9       :current-floor-id="currentFloorId"
10      :selected-local-id="selectedLocal?.id"
11      :loading="loading.locais"
12      :error="error.locais"
13      @update:currentFloorId="currentFloorId = $event"
14      @select-local="handleLocalSelect"
15      @close="closeMenu"
16    />
17
18    <div class="main-content" style="flex-grow: 1; position: relative;">
19      <MapDisplay
20        :map-image-url="currentFloorMap"
21        :locais-on-floor="locaisAtualAndar"
22        :user-position="userPosition"
23        :route-segments="routeSegments"
24        :debug-waypoints="debugWaypoints"
25        :selected-local-id="selectedLocal?.id"
26        :popup-info="popupInfo"
27        :map-scale="mapScale"
28        :loading="loading.map"
29        @map-click="handleMapClick"
30        @marker-click="handleLocalSelect"
31        @marker-mouseenter="showPopup"
32        @marker-mouseleave="hidePopup"
33        @update:map-dimensions="mapDimensions = $event"
34      />
```

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35
36 <MapControls
37   @zoom-in="zoomIn"
38   @zoom-out="zoomOut"
39   @update-location="triggerAutoLocation"
40   @set-location-manual="triggerManualLocationMode"
41 />
42
43 <div v-if="overallLoading && !displayError" class="loading">
44   <span v-if="isGettingLocation">Obtendo localização...</span>
45   <span v-else-if="loading.locais || loading.map">Carregando dados...</span>
46 </div>
47
48 <div v-if="displayError" class="error">{{ displayError }}</div>
49 <div v-if="settingUserLocationMode" class="error" style="top: 10%; background: lightblue; color: black; border: 1px
solid blue;">
50   {{ error.geolocation }}
51 </div>
52
53 <!-- Aqui entram as rotas filhas -->
54 <router-view />
55 </div>
56 </div>
57 </template>
58
59 <script setup>
60 import { ref, computed, onMounted, watch } from 'vue';
61 import AppSidebar from '@components/AppSidebar.vue';
62 import MapDisplay from '@components/MapDisplay.vue';
63 import MapControls from '@components/MapControls.vue';
64 import { useGeolocation } from '@composables/useGeolocation.js';
65 import { useMapInteraction } from '@composables/useMapInteraction.js';
66 import { useMapRouting } from '@composables/useMapRouting.js';
67 import { fetchLocais, getFloors } from '@services/LocationService.js';
68
69 const allLocais = ref([]);
70 const selectedLocal = ref(null);

```

```
71 const currentFloorId = ref('terreo');
72 const floors = ref([]);
73 const isMenuOpen = ref(false);
74 const loading = ref({ locals: true, map: true });
75 const error = ref({ locals: null, routing: null, geolocation: null });
76 const mapDimensions = ref({ width: 0, height: 0 });
77
78 const {
79   userPosition,
80   geolocationError,
81   isGettingLocation,
82   getUserLocationAuto,
83   setUserLocationManually
84 } = useGeolocation();
85
86 const {
87   mapScale,
88   popupInfo,
89   settingUserLocationMode,
90   zoomIn,
91   zoomOut,
92   showPopup,
93   hidePopup,
94   handleMapClick: handleMapClickInteraction,
95   enableSetUserLocationMode
96 } = useMapInteraction();
97
98 const {
99   routeSegments,
100   hasRoute,
101   debugWaypoints,
102   routingError: routeCalcError,
103   calculateRoute
104 } = useMapRouting(userPosition, selectedLocal, currentFloorId, mapScale, mapDimensions);
105
106 const currentFloorData = computed(() => floors.value.find(f => f.id === currentFloorId.value));
107 const currentFloorMap = computed(() => currentFloorData.value?.image || '');
```

```
108 const locaisAtualAndar = computed(() => allLocais.value.filter(local => local.andar === currentFloorId.value));
109 const overallLoading = computed(() => loading.value.locais || loading.value.map || isGettingLocation.value);
110 const displayError = computed(() => error.value.locais || error.value.geolocation || error.value.routing);
111
112 const toggleMenu = () => { isMenuOpen.value = !isMenuOpen.value; };
113 const closeMenu = () => { isMenuOpen.value = false; };
114
115 const loadInitialData = async () => {
116   loading.value.locais = true;
117   error.value.locais = null;
118   try {
119     floors.value = getFloors();
120     if (!floors.value.some(f => f.id === currentFloorId.value)) {
121       currentFloorId.value = floors.value[0].id;
122     }
123     allLocais.value = await fetchLocais();
124   } catch (err) {
125     error.value.locais = 'Falha ao carregar dados.';
126   } finally {
127     loading.value.locais = false;
128     loading.value.map = false;
129   }
130 };
131
132 const handleLocalSelect = (local) => {
133   selectedLocal.value = local;
134   if (local.andar !== currentFloorId.value) {
135     currentFloorId.value = local.andar;
136   }
137   closeMenu();
138 };
139
140 const handleMapClick = (event, mapRect) => {
141   handleMapClickInteraction(
142     event,
143     mapRect,
144     (x, y) => {
```

```
145     setUserLocationManually(x, y);
146     error.value.geolocation = null;
147   },
148   () => {
149     if (isMenuOpen.value && !event.target.closest('.menu-toggle-button')) {
150       closeMenu();
151     }
152   }
153 );
154 };
155
156 const triggerAutoLocation = () => {
157   getUserLocationAuto();
158   closeMenu();
159 };
160
161 const triggerManualLocationMode = () => {
162   enableSetUserLocationMode();
163   error.value.geolocation = 'Clique no mapa para definir sua localização.';
164   closeMenu();
165 };
166
167 watch(geolocationError, (newError) => {
168   if (!settingUserLocationMode.value) error.value.geolocation = newError;
169 });
170 watch(routeCalcError, (newError) => { error.value.routing = newError; });
171 watch(currentFloorId, (newFloor) => { if (selectedLocal.value?.andar !== newFloor) hidePopup(); });
172
173 onMounted(() => {
174   loadInitialData();
175   getUserLocationAuto();
176 });
177 </script>
178
179 <!-- estilos podem ser os mesmos de App.vue -->
180
181
```