



# Lab02-前端作业

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## part 1

1.商场管理员 (Manager) 可以创建商店, 创建时可以上传商店Logo图片。

```

//Header.vue
<script setup lang="ts">
import {router} from '../router'
import {parseRole} from "../utils"
import {User, SwitchButton} from "@element-plus/icons-vue" //图标

const role = sessionStorage.getItem('role') //登录的时候插入的

//退出登录
function logout() {
  ElMessageBox.confirm(
    '是否要退出登录? ',
    '提示',
    {
      customClass: "customDialog",
      confirmButtonText: '是',
      cancelButtonText: '否',
      type: "warning",
      showClose: false,
      roundButton: true,
      center: true
    }
  ).then(() => {
    sessionStorage.setItem('token', '')
    router.push({path: "/login"})
  })
}
</script>

<template>
<el-header class="custom-header" height="20">
  <el-row :gutter="10">

    <el-col :span="3" class="header-icon">
      <router-link to="/dashboard" v-slot="{navigate}" class="no-link">
        <h1 @click="navigate" class="header-text"> 蓝鲸在线购物</h1>
      </router-link>
    </el-col>

```

```

<el-col :span="2">
  <el-tag class="role-tag" size="large">{{ parseRole(role) }}版</el-tag>
</el-col>

<el-col :span="15">
</el-col>

<el-col :span="1" class="header-icon" v-if = "true">
  <router-link to="/AllStore" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" >
      
    </el-icon>
  </router-link>
</el-col>

<el-col :span="1" class="header-icon">
  <router-link to="/dashboard" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" ><User /></el-icon>
  </router-link>
</el-col>

<el-col :span="1" class="header-icon">
  <a @click="logout">
    <el-icon :size="35" color="white" ><SwitchButton /></el-icon>
  </a>
</el-col>

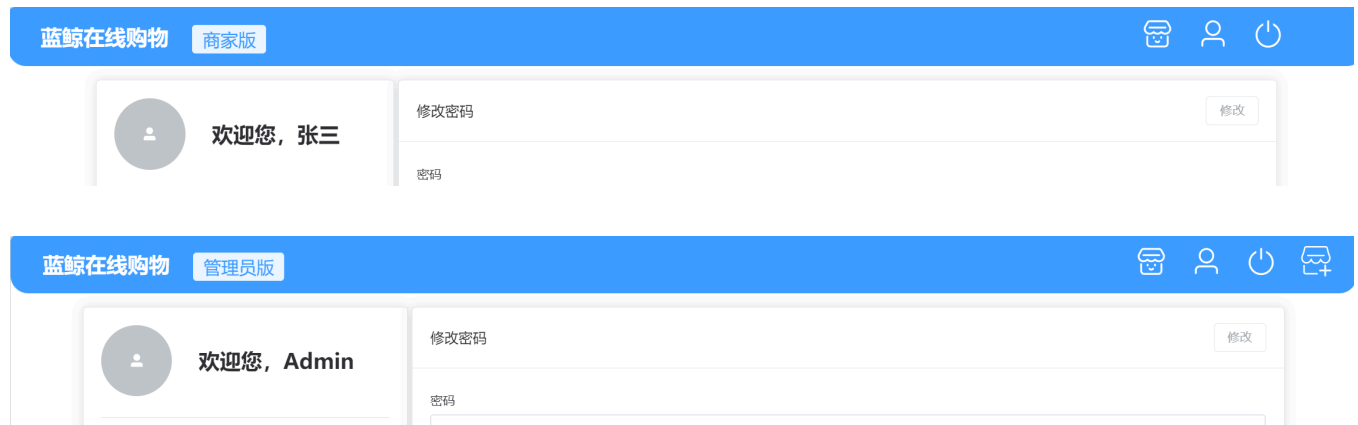
<el-col :span="1" class="header-icon" v-if = "role === 'MANAGER'">
  <router-link to="/createStore" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" >
      
    </el-icon>
  </router-link>
</el-col>

</el-row>
</el-header>
</template>

```

```
<style scoped>
.....
</style>
```

在Header.vue中添加按钮链接，点击跳转到添加商铺界面，并且只有用户是管理员身份时才会渲染链接图标



```

//CreateStore.vue
<script setup lang="ts">
import {ref, computed} from 'vue'
import { genFileId } from 'element-plus'
import type { UploadInstance, UploadProps, UploadRawFile } from 'element-plus'
import { UploadFile } from 'element-plus'
import {router} from "../../router";

const StoreId = ref('')
const uploadedFile = ref(false)
const hasStoreIdInput = computed(() => StoreId.value.trim() !== '')

const loginDisabled = computed(() => {
  return !(hasStoreIdInput.value && uploadedFile.value)
})

const upload = ref<UploadInstance>()

const handleExceed: UploadProps['onExceed'] = (files) => {
  upload.value!.clearFiles()
  const file = files[0] as UploadRawFile
  file.uid = genFileId()
  upload.value!.handleStart(file)
}

const submitUpload = () => {
  ElMessage({
    message: "创建成功!",
    type: 'success',
    center: true,
  })
  router.go(-1);
  upload.value!.submit()
}

</script>

<template>
  <el-main class="main-frame">

```

```
<el-card class="box-card">
  <div>
    <h1>尊敬的管理员，请您创建商铺</h1>

    <el-form>
      <el-row>
        <el-col :span="15">
          <el-form-item>
            <label for="name">商店名称</label>
            <el-input id="name" placeholder="请输入名称" v-model="StoreId"/>
          </el-form-item>
        </el-col>
      </el-row>

      <el-row>
        <el-col :span="15">
          <el-form-item>
            <label for="identity">请导入商店Logo: </label>
            <el-col :span="1"></el-col>
            <el-upload
              ref="upload"
              action="https://run.mocky.io/v3/9d059bf9-4660-45f2-925d-ce80ad6c4d15"
              class="upload-demo"
              list-type = "picture"
              :accept="['image/*']"
              :limit="1"
              :on-exceed="handleExceed"
              :auto-upload="false"
              :on-change="(file: UploadFile, fileList: UploadFile[]) => {
                uploadedFile = !!fileList.length
                console.log(1)
                console.log(file.name)
                console.log(uploadedFile)
              }"
              :on-remove="(file: UploadFile, fileList: UploadFile[]) => {
                console.log(2)
                console.log(file)
                console.log(fileList)
                uploadedFile = false
```

```

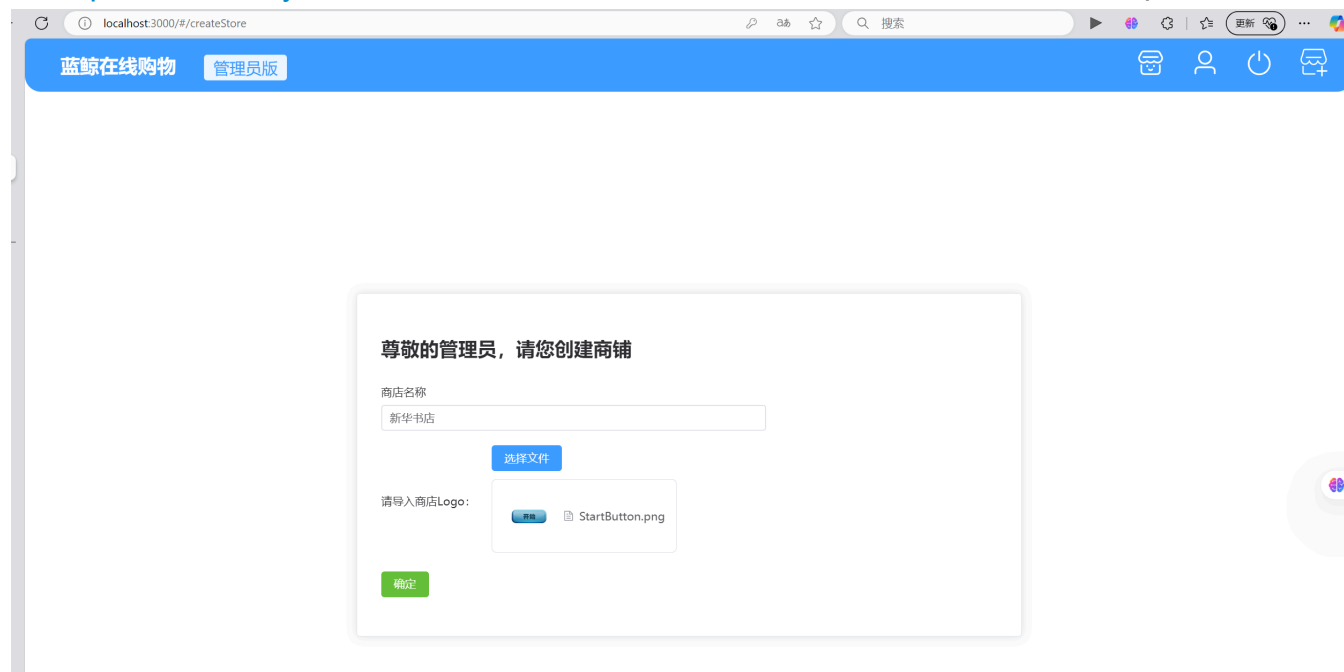
        }"
      >
        <template #trigger>
          <el-button type="primary">选择文件</el-button>
        </template>
      </el-upload>
    </el-form-item>
  </el-col>
</el-row>

<el-row>
  <el-col :span="10">
    <el-form-item>
      <el-button class="ml-3" type="success" @click="submitUpload" :disabled="loginDisab
        确定
      </el-button>
    </el-form-item>
  </el-col>
</el-row>
</el-form>
</div>
</el-card>
</el-main>
</template>

<style scoped>
.main-frame {
  width: 100%;
  height: 100%;
  display: flex;
  align-items: center;
  justify-content: center;
}
.box-card {
  width: 50%;
  padding: 10px;
}
</style>

```

创建管理员创建商铺的界面，可以输入商店名称和选择商店Logo，商店Logo限制文件格式和数量，只能上传图片文件，并且只能上传一张，只有当商店名称和Logo全部填写才能点击确定按钮并出现创建成功信息提示。（不要求完成后端部分所以发送的文件发送服务器为"<https://run.mocky.io/v3/9d059bf9-4660-45f2-925d-ce80ad6c4d15>"，随便填写）



## part 2

2.完善用户模块里的注册方法，注册商店工作人员（Staff）时可以选择所属商店。



```

//Register.vue
.....

    <el-col :span="1" v-if="identity==='STAFF'"></el-col>

    <el-col :span="7" v-if="identity==='STAFF'">
      <el-form-item>
        <label for="address">
          所属商店（需待Lab2中完善）
        </label>
        <el-select id="storeName"
          v-model="storeId"
          placeholder="请选择"
          style="width: 100%;"
        >
          <el-option value="1" label="大众鞋店"/>
          <el-option value="2" label="婴儿用品店"/>
          <el-option value="3" label="电子产品店"/>
          <el-option value="4" label="潮流服装店"/>
        </el-select>
      </el-form-item>
    </el-col>

  </el-row>

.....

```

只要求完成前端部分，故这一部分数据写死，先暂时提供四个店铺选项，后期店铺信息从后端获取。

**创建一个新的账户**

昵称

身份

注册手机号

地址

所属商店 (需待Lab2中完善)

密码

确认密码

- 大众鞋店
- 婴儿用品店
- 电子产品店
- 潮流服装店

## Part 3

3.所有用户都可以查看商店列表，点击列表中的商店进入商店详情界面。

```

//Header.vue
<script setup lang="ts">
import {router} from '../router'
import {parseRole} from "../utils"
import {User, SwitchButton} from "@element-plus/icons-vue" //图标

const role = sessionStorage.getItem('role') //登录的时候插入的

//退出登录
function logout() {
  ElMessageBox.confirm(
    '是否要退出登录? ',
    '提示',
    {
      customClass: "customDialog",
      confirmButtonText: '是',
      cancelButtonText: '否',
      type: "warning",
      showClose: false,
      roundButton: true,
      center: true
    }
  ).then(() => {
    sessionStorage.setItem('token', '')
    router.push({path: "/login"})
  })
}
</script>

<template>
<el-header class="custom-header" height="20">
  <el-row :gutter="10">

    <el-col :span="3" class="header-icon">
      <router-link to="/dashboard" v-slot="{navigate}" class="no-link">
        <h1 @click="navigate" class="header-text"> 蓝鲸在线购物</h1>
      </router-link>
    </el-col>
  </el-row>
</template>

```

```

<el-col :span="2">
  <el-tag class="role-tag" size="large">{{ parseRole(role) }}版</el-tag>
</el-col>

<el-col :span="15">
</el-col>

<el-col :span="1" class="header-icon" v-if = "true">
  <router-link to="/AllStore" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" >
      
    </el-icon>
  </router-link>
</el-col>

<el-col :span="1" class="header-icon">
  <router-link to="/dashboard" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" ><User /></el-icon>
  </router-link>
</el-col>

<el-col :span="1" class="header-icon">
  <a @click="logout">
    <el-icon :size="35" color="white" ><SwitchButton /></el-icon>
  </a>
</el-col>

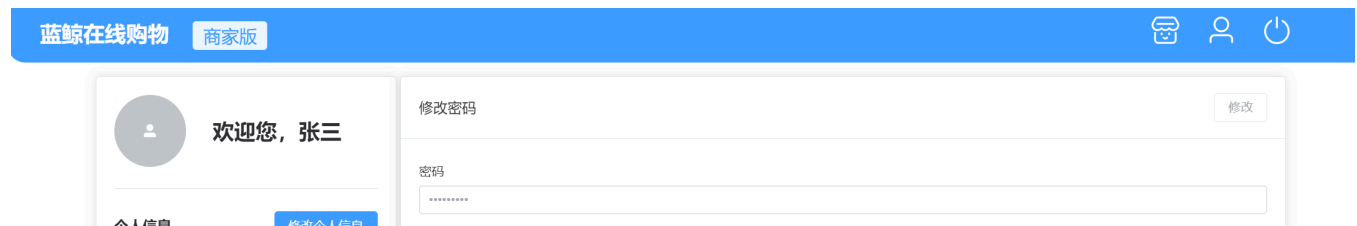
<el-col :span="1" class="header-icon" v-if = "role === 'MANAGER'">
  <router-link to="/createStore" v-slot="{navigate}">
    <el-icon @click="navigate" :size="35" color="white" >
      
    </el-icon>
  </router-link>
</el-col>

</el-row>
</el-header>
</template>

```

```
<style scoped>
.....
</style>
```

在Header.vue中添加按钮链接，点击跳转到添加商城界面，设置 `v-if = true`，所有用户都会渲染。



```
//AllStore.vue
<script setup lang="ts">
import StoreTable from '../components/StoreTable.vue'
import {ref} from 'vue'
import thelogo from '../assets/logo.png';
const storelist = ref([
  {
    id: 1,
    logo: thelogo,
    storeName: "大众鞋店"
  },
  {
    id: 2,
    logo: thelogo,
    storeName: "婴儿用品店"
  },
  {
    id: 3,
    logo: thelogo,
    storeName: "电子产品店"
  },
  {
    id: 4,
    logo: thelogo,
    storeName: "潮流服装店"
  }
])

</script>

<template>
  <StoreTable
    v-for="item in storelist"
    :storeId="item.id"
    :logo="item.logo"
    :storeName="item.storeName"
  />
  <router-view />
</template>
```

```
<style scoped>
```

```
</style>
```

```

//StoreTable.vue
<script setup lang="ts">
import {router} from '../router'
//import {ref} from 'vue'
const props = defineProps(['storeID', 'logo', 'storeName'])

function moveToDetail(){
  // console.log(2333)
  // console.log(props.logo)
  router.push({
    path: '/store',
    query: {
      theStoreID: props.storeID,
      theLogo: props.logo,
      theStoreName: props.storeName
    }
  })
}
</script>

<template>
  <el-card class="the-card" style="width: 100%; padding: 15px; border-radius: 10px;">
    <el-row :gutter="20" justify="space-between" type="flex" align="middle">
      <el-col :span="3">
        <el-text class="store-id" size="large">
          {{ props.storeID }}
        </el-text>
      </el-col>
      <el-col :span="3">
        <el-image class="store-logo" style="width: 80px; height: 80px" :src="props.logo" :fit="'fi
      </el-col>
      <el-col :span="5">
        <el-text class="store-name" size="large">
          {{ props.storeName }}
        </el-text>
      </el-col>
      <el-col :span="3">
        <el-button @click="moveToDetail" class="store-btn" type="success" style="width: 120px; hei
          进入商店

```



```

        </el-button>
      </el-col>
    </el-row>
  </el-card>
</template>

<style scoped>
.the-card {
  border: 2px solid black;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  background-color: #f9f9f9;
  transition: transform 0.3s, box-shadow 0.3s;
}

.the-card:hover {
  transform: translateY(-5px);
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);
}

.store-id, .store-name {
  font-weight: bold;
  color: #333;
}

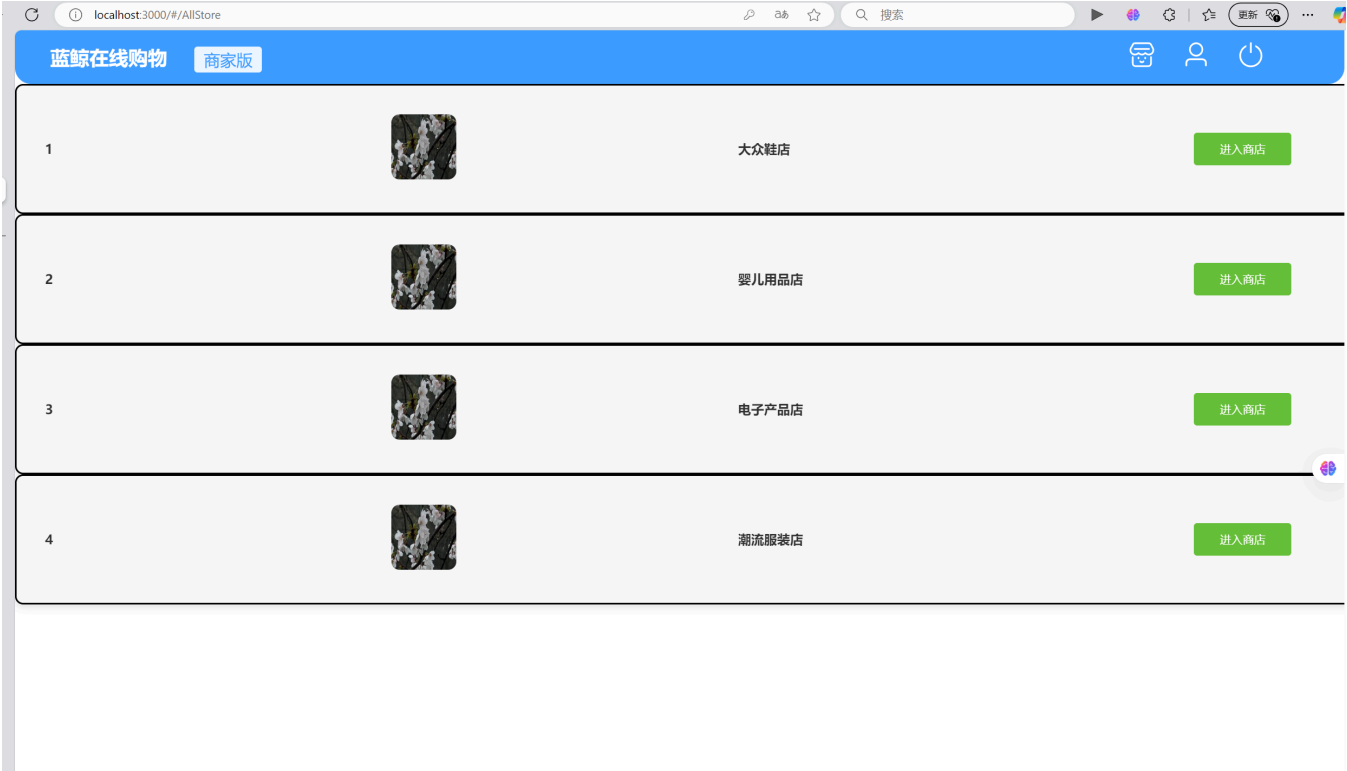
.store-logo {
  border-radius: 10px;
}

.store-btn {
  font-size: 14px;
  padding: 0;
  text-align: center;
}
</style>

```

创建商城界面（AllStore.vue），商城界面由相同的组件商铺表（StoreTable.vue）组成，商城界面的数据是前端写死的数据，后期从后端获取，信息由父传子将对应信息传递给StoreTable，

并形成商铺表。



## part 4 & part 5

4.商店工作人员可以在自己所属商店的详情界面创建商品。

5.所有用户都可以在商店详情界面查看该商店下的商品列表。

在StoreTable界面创建按钮，用于进入商店界面，同时进入商店详情界面时候携带了商店的相关信息（storeId，logo，storeName）

```

//StoreDetail.vue
<script setup lang="ts">
import { useRoute } from 'vue-router'
import {router} from '../router'
import thelogo from "../assets/logo.png";
import {ref, computed} from 'vue'
import ProductTable from "../components/ProductTable.vue";
const currentPage = ref(1)

const currentPageProducts = computed(() => {
  const start = (currentPage.value - 1) * 4
  const end = currentPage.value * 4
  return productList.value.slice(start, end)
})

const handlePageChange = (page: number) => {
  currentPage.value = page
}

const goBack = () => {
  router.go(-1);
};

function addProduct(){
  console.log(1)
  router.push({ path: '/addProduct' })
}

const productList = ref([
  {
    id: 1,
    logo: thelogo,
    productName: "鞋子",
    cost: 200
  },
  {
    id: 2,
    logo: thelogo,
    productName: "衣服",

```

```

      cost: 220
    },
    {
      id: 3,
      logo: thelogo,
      productName: "可乐",
      cost: 3
    },
    {
      id: 4,
      logo: thelogo,
      productName: "电脑",
      cost: 4000
    },
    {
      id: 5,
      logo: thelogo,
      productName: "手机",
      cost: 7000
    }
  ])
const route = useRoute()
const storeName = route.query.theStoreName
const storeID = route.query.theStoreID
const storeLogo = route.query.theLogo
const role = sessionStorage.getItem("role")
const theID = sessionStorage.getItem("store_id")
</script>

<template>
  <el-container style="height: 100vh;">
    <el-aside width="300px" style="background-color: #f4f7fc; padding: 20px; overflow-y: auto;">
      <el-card class="store-info-card" style="padding: 20px;">
        <el-button @click="goBack" v-if="true" class="back-btn" >返回商城</el-button>
        <el-image class="store-logo" style="width: 150px; height: 150px" :src="storeLogo" :fit="'f'>
        <br><br>
        <el-text size="large" class="store-welcome">欢迎来到 {{ storeName }}!!!<br></el-text>
        <el-text size="small" class="store-slogan">期待您的购买~~~</el-text>
        <el-button @click="addProduct" v-if="role === 'STAFF' && theID === storeID" class="add-pro>
      </el-card>
    </el-aside>
  </el-container>

```

```

</el-aside>

<el-main style="padding: 20px; overflow-y: auto;">
  <el-row :gutter="20">
    <el-col v-for="item in currentPageProducts" :key="item.id" :span="24" class="product-col">
      <ProductTable
        :productID="item.id"
        :logo="item.logo"
        :productName="item.productName"
        :cost="item.cost"
      />
    </el-col>
  </el-row>
  <el-pagination
    background
    layout="prev, pager, next"
    :total="productList.length"
    :page-size="4"
    :current-page="currentPage"
    @current-change="handlePageChange"
    style="margin-top: 20px; text-align: center;"
  />
</el-main>
</el-container>
</template>

<style scoped>
.store-info-card {
  padding: 20px;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
}

.store-welcome {
  font-size: 24px;
  font-weight: bold;
  color: #333;
}

```

```
.store-slogan {
  font-size: 16px;
  color: #888;
}

.store-logo {
  margin-top: 15px;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
}

.add-product-btn {
  margin-top: 20px;
  width: 100%;
  background-color: #42b983;
  color: #fff;
  font-weight: bold;
}

.back-btn {
  background-color: #409eff;
  color: #fff;
  width: 100%;
  margin-bottom: 20px;
}

.product-col {
  padding: 10px;
}

.el-row {
  margin-top: 20px;
}

.el-main {
  background-color: #f9f9f9;
  padding: 20px;
  overflow-y: auto;
}
```

```
}  
</style>
```

```
//ProductTable.vue
<script setup lang="ts">
const props = defineProps(['productID', 'logo', 'productName', 'cost'])
</script>

<template>
  <el-card class="the-card">
    <el-row :gutter="20" justify="space-between" align="middle">
      <el-col :span="4">
        <el-text class="product-id" size="large">{{ props.productID }}</el-text>
      </el-col>
      <el-col :span="4">
        <el-image class="product-logo" :src="props.logo" :fit="'fill'" />
      </el-col>
      <el-col :span="8">
        <el-text class="product-name" size="large">{{ props.productName }}</el-text>
      </el-col>
      <el-col :span="4">
        <el-text class="product-cost" size="large">价值 {{ props.cost }} 元</el-text>
      </el-col>
      <el-col :span="4">
        <el-button class="product-btn" type="success" style="width: 100%; height: 40px;">
          购买
        </el-button>
      </el-col>
    </el-row>
  </el-card>
</template>

<style scoped>
.the-card {
  padding: 20px;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
}

.product-id,
.product-name,
```



```
.product-cost {
  font-size: 16px;
  color: #333;
}

.product-logo {
  width: 80px;
  height: 80px;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
}


.product-btn {
  background-color: #42b983;
  color: #fff;
  font-weight: bold;
}

.el-button {
  width: 100%;
}
</style>
```

进入商店详情界面，productList是在这里写死的，后期从后端获取，商店详情界面由两部分构成，第一部分是侧边栏部分，记录商店相关信息以及两个按钮（返回商城和添加商品），从本地获取在登陆时加载的数据（用户的storeId），添加商品按钮只有在核验用户的storeId和本商店的ID一样时才会渲染，然后main部分是商店的商品信息，是由组件ProductTable构成，也是由父传子传递信息给ProductTable，商品列表所有用户均可查看，并且一页显示四个商品，可以换页

蓝鲸在线购物商家版


返回商城



欢迎来到 大众鞋店!!!  
期待您的购买~~~

添加商品

1




鞋子

价值 200 元

购买

2




衣服

价值 220 元

购买

3




可乐

价值 3 元

购买

4



电脑


价值 4000 元

购买

< 1 2 >


蓝鲸在线购物商家版

返回商城



欢迎来到 婴儿用品店!!!  
期待您的购买~~~

1




鞋子

价值 200 元

购买

2




衣服

价值 220 元

购买

3




可乐

价值 3 元

购买

4

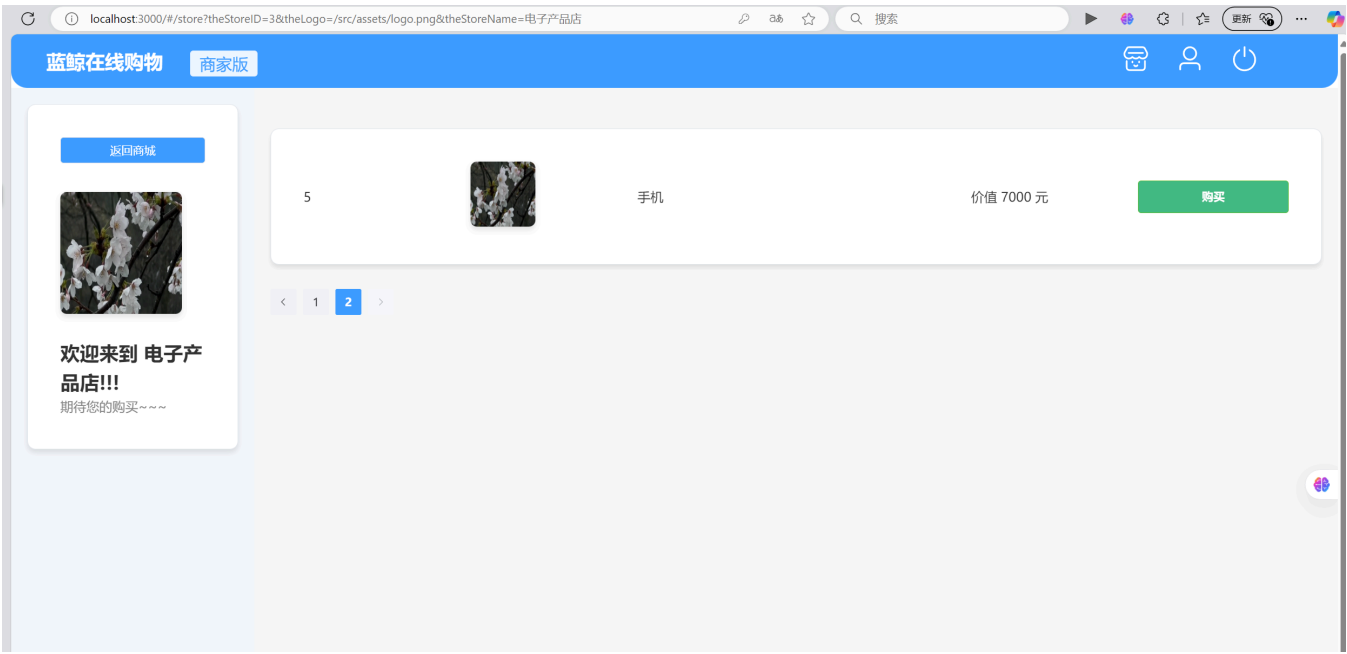


电脑

价值 4000 元

购买

< 1 2 >



```

//CreateProduct.vue
<script setup lang="ts">
import {ref, computed} from 'vue'
import { genFileId } from 'element-plus'
import type { UploadInstance, UploadProps, UploadRawFile } from 'element-plus'
import { UploadFile } from 'element-plus'
import {router} from '../router'

const productName = ref('')
const productCost = ref('')
const uploadedFile = ref(false)
const hasProductNameInput = computed(() => productName.value.trim() !== '')
const costLegal = computed(() => {
  const regex = /^[0-9]+(\.[0-9]+)?$/
  const cost = parseFloat(productCost.value)
  return !isNaN(cost) && cost >= 0 && regex.test(productCost.value)
})
const hasCostInput = computed(() => {return productCost.value !== ''})
const loginDisabled = computed(() => {
  return !(hasCostInput.value && costLegal.value && hasProductNameInput.value && uploadedFile.value)
})

const upload = ref<UploadInstance>()

const handleExceed: UploadProps['onExceed'] = (files) => {
  upload.value!.clearFiles()
  const file = files[0] as UploadRawFile
  file.uid = genFileId()
  upload.value!.handleStart(file)
}

const submitUpload = () => {
  ElMessage({
    message: "添加成功!",
    type: 'success',
    center: true,
  })
  router.go(-1);
  upload.value!.submit()
}

```

```
}
```

```
</script>
```

```
<template>
```

```
  <el-main class="main-frame">
```

```
    <el-card class="box-card">
```

```
      <div>
```

```
        <h1>请您添加商品</h1>
```

```
        <el-form>
```

```
          <el-row>
```

```
            <el-col :span="15">
```

```
              <el-form-item>
```

```
                <label for="name">输入商品名称: </label>
```

```
                <el-input id="name" placeholder="请输入名称" v-model="productName"/>
```

```
              </el-form-item>
```

```
            </el-col>
```

```
          </el-row>
```

```
          <el-row>
```

```
            <el-col :span="15">
```

```
              <el-form-item>
```

```
                <label v-if="!hasCostInput" for="tel">输入商品价格: </label>
```

```
                <label v-else-if="!costLegal" for="tel" class="error-warn">价格不合法</label>
```

```
                <label v-else for="tel">输入商品价格: </label>
```

```
                <el-input id="tel" type="text" v-model="productCost"
```

```
                  required :class="{ 'error-warn-input' : (hasCostInput && !costLegal) }"
```

```
                  placeholder="请输入商品价格"/>
```

```
              </el-form-item>
```

```
            </el-col>
```

```
          </el-row>
```

```
          <el-row>
```

```
            <el-col :span="15">
```

```
              <el-form-item>
```

```
                <label for="identity">请导入商品图片: </label>
```

```
                <el-col :span="1"></el-col>
```

```
                <el-upload
```

```
                  ref="upload"
```

```

        action="https://run.mocky.io/v3/9d059bf9-4660-45f2-925d-ce80ad6c4d15"
        class="upload-demo"
        list-type = "picture"
        :accept="['image/*']"
        :limit="1"
        :on-exceed="handleExceed"
        :auto-upload="false"
        :on-change="(file: UploadFile, fileList: UploadFile[]) => {
          uploadedFile = !!fileList.length
          console.log(1)
          console.log(file.name)
          console.log(uploadedFile)
        }"
        :on-remove="(file: UploadFile, fileList: UploadFile[]) => {
          console.log(2)
          console.log(file)
          console.log(fileList)
          uploadedFile = false
        }"
      >
      <template #trigger>
        <el-button type="primary">选择文件</el-button>
      </template>
    </el-upload>
  </el-form-item>
</el-col>
</el-row>

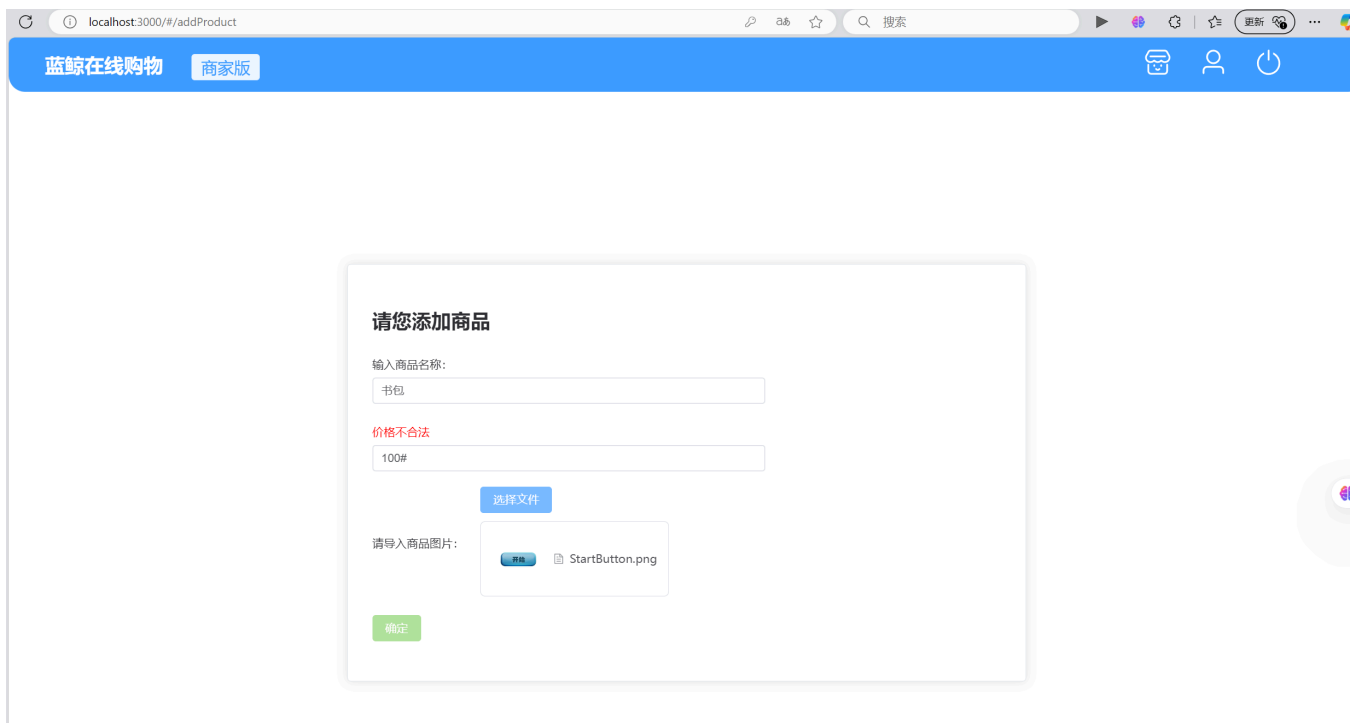
<el-row>
  <el-col :span="10">
    <el-form-item>
      <el-button class="ml-3" type="success" @click="submitUpload" :disabled="loginDisab
        确定
      </el-button>
    </el-form-item>
  </el-col>
</el-row>
</el-form>
</div>

```

```
        </el-card>
    </el-main>
</template>

<style scoped>
.main-frame {
    width: 100%;
    height: 100%;
    display: flex;
    align-items: center;
    justify-content: center;
}
.box-card {
    width: 50%;
    padding: 10px;
}
.error-warn-input{
    --el-input-focus-border-color: red;
}
.error-warn{
    color: red;
}
</style>
```

点击添加商品按钮后进入此界面，同创建商铺界面类似，输入商品的名称，价格，Logo，价格要求合法，Logo只能上传图片且只能上传一张，只有全部填写并且合法时候才可以点击确定并发出“添加成功”的信息



其他代码：（index.tx部分）



```
//index.tx
import {createRouter, createWebHashHistory} from "vue-router"

const router = createRouter({
  history: createWebHashHistory(),
  routes: [{
    path: '/',
    redirect: '/login',
  }, {
    path: '/login',
    component: () => import('../views/user/Login.vue'),
    meta: {title: '用户登录'}
  }, {
    path: '/register',
    component: () => import('../views/user/Register.vue'),
    meta: {title: '用户注册'}
  }, {
    path: '/home',
    redirect: '/dashboard',
    component: () => import('../views/Home.vue'),
    children: [
      {
        path: '/dashboard',
        name: 'Dashboard',
        component: () => import('../views/user/Dashboard.vue'),
        meta: {title: '个人信息'}
      }, {
        path: '/createStore',
        name: 'CreateStore',
        component: () => import('../views/store/CreateStore.vue'),
        meta: {title: '添加店铺'}
      }, {
        path: '/AllStore',
        name: 'AllStore',
        component: () => import('../views/store/AllStore.vue'),
        meta: {title: '商城'}
      }, {
        path: '/addProduct',
        name: 'addProduct',
```

```

        component: () => import('../views/product/CreateProduct.vue'),
        meta: {title: '添加商品'}
      }, {
        path: '/store',
        name: 'store',
        component: () => import('../views/store/StoreDetail.vue'),
        meta: {title: '商店'}
      }
    ]
  }, {
    path: '/404',
    name: '404',
    component: () => import('../views/NotFound.vue'),
    meta: {title: '404'}
  }, {
    path: '/*:catchAll(.*)',
    redirect: '/404'
  }
])
})

```

```

router.beforeEach((to, _, next) => {
  const token: string | null = sessionStorage.getItem('token');
  const role: string | null = sessionStorage.getItem('role')

  if (to.meta.title) {
    document.title = to.meta.title
  }

  if (token) {
    if (to.meta.permission) {
      if (to.meta.permission.includes(role!)) {
        next()
      } else {
        next('/404')
      }
    } else {
      next()
    }
  } else {

```

```
    if (to.path === '/login') {  
      next();  
    } else if (to.path === '/register') {  
      next()  
    } else {  
      next('/login')  
    }  
  }  
})  
  
export {router}
```

表示路径跳转的代码