

```

<template>
  <div class="back-image">
    <div class="head-container">PKPM钢结构全生命周期管控平台</div>
    <div class="login">
      <div class="login-title">
        <el-row>欢迎登陆</el-row>
      </div>
      <el-row>
        <div class="input-textfield account">
          <div class="txtaccount">
            账户
          </div>
          <el-col :span="20" class="user-textfield">
            <input type="text" class="input-text" placeholder="请输入用户名" v-model="userNameString" />
          </el-col>
        </div>
      </el-row>
      <el-row>
        <div class="input-textfield password">
          <div class="txtpassword">
            密码
          </div>
          <el-col :span="20" class="user-textfield">
            <input type="password" class="input-text" placeholder="请输入密码" v-model="passwordString" />
          </el-col>
        </div>
      </el-row>
      <el-row>
        <el-button ref="loginbtn" class="login-button" type="primary" v-popover:popover @click="loginBtnClick">
          登录</el-button>
        <!--验证码弹窗-->
        <el-popover popper-class="popover-style" ref="popover" trigger="manual" v-model="visible" placement="top"
          visible-arrow="false" >
          <div class="sliding-pictures">
            <div class="operation">
              <div class="tip-text">请拖动滑块到正确地方验证</div>
              <div title="关闭验证"
                @click="visible = false" class="close-btn"></div>
              <div title="刷新验证码" @click="canvasInit" class="refresh-
                btn"></div>
            </div>
          </div>
        </el-popover>
      </el-row>
    </div>
  </div>

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        </div>
        <div class="vimg">
            <canvas id="sliderBlock"></canvas>
            <canvas id="codeImg"></canvas>
        </div>
        <div class="slider">
            <div class="track" :class="{ pintuTrue: puzzle }">{{ tips }}
</div>
            <div class="button trackbtn" @mousedown.prevent="drag">&rar
r;</div>
            <div class="drag-bg"></div>
        </div>
    </div>
</el-popover>
</el-row>
</div>
</div>
</template>

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```
<script>
```

```

export default {
  name: "login",
  components: {
  },
  },
  data() {
    return {
      userNameString: "",
      passwordString: "",
      tips: "拖动左边滑块完成上方拼图",
      visible: false,
      //滑块x轴数据
      slider: {
        mx: 0,
        bx: 0
      },
      //拼图是否正确
      puzzle: false,
      loginBtnStyle: {
        marginTop: "118px"
      }
    };
  },
  watch: {

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    visible(e) {
        if (e === true) {
            this.canvasInit();
            this.puzzle = false;
        }
    }
},
create() {

},
mounted() {

},
methods: {
    loginClick() {
        let self = this;
        this.$router.push({
            path: "../enterprise"
        });
    },
    //拼图验证码初始化
    canvasInit() {
        //生成指定区间的随机数
        const random = (min, max) => {
            return Math.floor(Math.random() * (max - min + 1) + min);
        };

        let mx = random(200, 405),
            bx = random(10, 40),
            y = random(10, 99);

        this.slider = { mx, bx };
        this.draw(mx, bx, y);
    },
    //鼠标按下
    drag(e) {
        let dom = e.target; //dom元素

        let slider = document.querySelector("#sliderBlock"); //滑块dom
        const downCoordinate = { x: e.x, y: e.y };
        //正确的滑块数据
        let checkx = Number(this.slider.mx) - Number(this.slider.bx) + 42; //
        //滑块宽
        //x轴数据
        let x = 0;
        const move = moveEV => {

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        x = moveEV.x - downCoordinate.x;

        if (x >= 405 || x <= 0) return false;
        dom.style.left = x + "px";

        slider.style.left = x + "px";
        let drag_bg = document.getElementsByClassName("drag-bg");
        drag_bg[0].style.width = x + "px";
    };
    const up = () => {
        document.removeEventListener("mousemove", move);
        document.removeEventListener("mouseup", up);
        dom.style.left = "";
        // console.log(x, checkx);
        let max = checkx + 20;
        let min = checkx - 20;
        //允许正负误差1
        if ((max >= x && x >= min) || x === checkx) {
            console.log("滑动解锁成功");
            this.puzzle = true;
            this.tips = "验证成功";
            dom.style.left = x + "px";
            setTimeout(() => {
                this.visible = false;
                this.loginClick();
            }, 500);
        } else {
            console.log("拼图位置不正确");
            let drag_bg = document.getElementsByClassName("drag-bg");
            drag_bg[0].style.width = "0px";
            this.tips = "验证失败, 请重试";
            this.puzzle = false;
            this.canvasInit();
        }
    };
    document.addEventListener("mousemove", move);
    document.addEventListener("mouseup", up);
},
draw(mx = 200, bx = 20, y = 50) {
    let mainDom = document.querySelector("#codeImg");
    let bg = mainDom.getContext("2d");
    let width = mainDom.width;
    let height = mainDom.height;
    let blockDom = document.querySelector("#sliderBlock");
    let block = blockDom.getContext("2d");
    //重新赋值, 让canvas进行重新绘制
    blockDom.height = height;
    mainDom.height = height;

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        let imgsrc = require("../assets/img/login/Code.png");
        let img = document.createElement("img");
        img.style.objectFit = "scale-down";
        img.src = imgsrc;
        img.onload = function() {
            bg.drawImage(img, 0, 0, width, height);
            block.drawImage(img, 0, 0, width, height);
        };
        let mainxy = { x: mx, y: y, r: 9 };
        let blockxy = { x: bx, y: y, r: 9 };
        this.drawBlock(bg, mainxy, "fill");
        this.drawBlock(block, blockxy, "clip");
    },
    //绘制拼图
    drawBlock(ctx, xy = { x: 254, y: 79, r: 9 }, type) {
        let x = xy.x,
            y = xy.y,
            r = xy.r,
            w = 40;
        let PI = Math.PI;
        //绘制
        ctx.beginPath();
        //left
        ctx.moveTo(x, y);
        //top
        ctx.arc(x + (w + 5) / 2, y, r, -PI, 0, true);
        ctx.lineTo(x + w + 5, y);
        //right
        ctx.arc(x + w + 5, y + w / 2, r, 1.5 * PI, 0.5 * PI, false);
        ctx.lineTo(x + w + 5, y + w);
        //bottom
        ctx.arc(x + (w + 5) / 2, y + w, r, 0, PI, false);
        ctx.lineTo(x, y + w);
        ctx.arc(x, y + w / 2, r, 0.5 * PI, 1.5 * PI, true);
        ctx.lineTo(x, y);
        //修饰, 没有会看不出效果
        ctx.lineWidth = 3;
        ctx.fillStyle = "#rgba(234, 234, 234, 1)";
        ctx.strokeStyle = "rgba(191, 191, 191, 0.8)";

        ctx.stroke();
        ctx[type]();
        ctx.globalCompositeOperation = "xor";
    },
    loginBtnClick() {
        if (this.userNameString == "" || this.passwordString == "") {
            this.$message({
                message: "用户名或密码不能为空",
            });
        }
    }
}

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        type: "warning"
    });
    return false;
} else {
    this.visible = true;
    this.tips = "拖动左边滑块完成上方拼图";
    let drag_bg = document.getElementsByClassName("drag-bg");
    drag_bg[0].style.width = "0px";
    let trackbtn = document.getElementsByClassName("trackbtn");
    trackbtn[0].style.left = "0px";

    this.puzzle = false;
    let dom = document.getElementsByClassName("login-button");

    if (dom[0].style.marginTop == "118px") {
        let popover = document.getElementsByClassName("slidingPictures");
    ;
        setTimeout(() => {
            popover[0].style.top =
                popover[0].style.top.split("px")[0] - 46 + "px";
        });
    }
}
}
}
};
</script>
<style>
.slidingPictures {
    padding: 0;
    width: 5.2rem;
    height: 3.7rem;
    border: none;
    background: transparent;
}
</style>
<style lang="scss" >
input:-webkit-autofill,
input:-webkit-autofill:hover,
input:-webkit-autofill:focus,
input:-webkit-autofill:active {
    -webkit-transition-delay: 99999s;
    -webkit-transition: color 99999s ease-out, background-color 99999s ease-
out;
}
.back-image {
    position: relative;

```

```
// display: flex;
height: 100%;
width: 100%;

background-
image: url("../assets/img/login/loginimg.png"),url("../assets/img/login/loginbackground.png");
background-repeat: no-repeat,no-repeat;
background-size: cover;
-webkit-background-size: cover;
-o-background-size: cover;
background-position: center 0;
.head-container {
width: 19.2rem;
height: 0.8rem;
background: url("../assets/img/layout/head.png") no-repeat;
background-size: 100% 100%;
text-align: center;
font-size: 0.32rem;
font-family: Source Han Sans CN;
font-weight: 400;
color: #ffffff;
}
}
.logo-text {
position: relative;
width: 878px;
height: 42px;
margin-top: 103px;
left: 50%;
margin-left: -439px;
}
.logo-line {
position: relative;
width: 978px;
height: 2px;
margin-top: 18px;
left: 50%;
margin-left: -489px;
}
}
.logo-left {
width: 100%;
height: 100%;
}

}

.login {
width: 5.8rem;
height: 5.8rem;
```

```
background: url("../assets/img/login/logincircle.png");
background-repeat: no-repeat;
background-size: cover;
-webkit-background-size: cover;
-o-background-size: cover;
margin-left: 6.7rem;
margin-top: 1.57rem;
.login-title {
text-align: center;
padding-top: 1.22rem;
font-size: 0.24rem;
font-family: SourceHanSansCN-Regular;
font-weight: Regular;
color: #63F4F9;
}
}
```

```
.input-textfield {
width: 3.2rem;
height: 0.38rem;
border: solid 1px #63F4F9;
opacity: 0.6;
margin-left: 49px;
}
.account {
margin-top: 0.51rem;
margin-left: 1.59rem;
font-size: 0.2rem;
font-family: SourceHanSansCN-Regular;
font-weight: Regular;
color: #FFFFFF;
}
.txtaccount
{
margin-left: 1.29rem;
margin-left: -0.60rem;
// margin-top: -0.03rem;
}
.password {
margin-top: 0.4rem;
margin-left: 1.59rem;
font-size: 0.2rem;
font-family: SourceHanSansCN-Regular;
font-weight: Regular;
color: #FFFFFF;
}
.txtpassword{
```



```
margin-left: -0.60rem;
//margin-top:-0.03rem;
}
.verification {
margin-top: 26px;
}
.login-button {
width:3.78rem;
height: 0.4rem;
margin-left: 1.01rem;
margin-bottom: 1.61rem;
background-color: rgba(99, 244, 249, 0.4);
}
.user-icon {
margin-left: 10px;
margin-top: 6px;
}
.user-textfield {
height: 0.38rem;
margin-top:-0.3rem;
}
.input-text {
width: 100%;
height: 43px;
font-size: 16px;
color: #8ad5fe;
background-color: rgba(0, 0, 0, 0) !important;
border: none;
outline: none;
margin-bottom: 0.5rem;
}
input::-webkit-input-placeholder {
color: #8ad5fe;
}
.popover-style {
top: 336px !important;
width: 5.2rem;
height: 3.7rem;
padding: 0px !important;
margin:0px;
}
/*该样式最终是以弹窗插入*/
.sliding-pictures {
width: 100%;
}
.vimg {
width: 5.18rem;
height: 248px !important;
```

```
background-color: #000;
#codeImg,
#sliderBlock {
    // padding: 7px 7px 0 7px;
    width: inherit;
    height: inherit;
}
#sliderBlock {
    position: absolute;
    z-index: 4000;
}
.close-btn {
    float: right;
    z-index: 9999;
    //position: absolute;
    margin-top: 120px;
    margin-left: 0.5rem;
    font-size: 24px;
    color: rgba(234, 234, 234, 0.7);
    cursor: pointer;
    background-image: url("../assets/img/login/close-btn.png");
    background-repeat: no-repeat;
    background-size: cover;
    width: 0.24px !important;
    height: 0.24px;
    background-color: red;;
}
.refresh-btn {
    float: right;
    z-index: 9999;
    position: absolute;
    right: 10px;
    top: 5px;
    font-size: 24px;
    color: rgba(234, 234, 234, 0.7);
    cursor: pointer;
}
}
.slider {
    width: 5.2rem;
    height: 67px;
    // height: 65px;
    // border-bottom: #c7c9d0 1px solid;
    background-color: #FFFFFF;
    display: flex;
    align-items: center;
    justify-content: flex-start;
    .track {
```

```
width: 5.2rem;
height: 42px;
background: transparent;
border: 1px solid rgba(100, 160, 228, 0.6);
// background: rgba(28, 136, 188, 0.5);
// border-radius: 25px;
font-size: 14px;
text-align: center;
line-height: 36px;
// padding-right: 15px;
// padding-left: 70px;
font-family: MicrosoftYaHei;
font-size: 12px;
color: rgba(138, 213, 254, 0.4);
}
```

```
.pintuTrue {
// background: #67c23a;
// color: #ffffff;
padding-left: 50px;
color: #ffffff;
text-align: left;
// background: #c0fcfe;
}
```

```
.button {
position: absolute;
width: 0.6rem;
height: 0.4rem;
line-height: 36px;
background: transparent;
background-color: #B9B668;
// box-shadow: #b9bdc8 0 0 3px;
// border-radius: 50%;
// left: 7px;
border: solid 1px #406baa;
text-align: center;
font-size: 20px;
color: #3e5d8b;
cursor: pointer;
// &:hover,&:focus,&:active {
// color: #000;
// background: #c0fcfe;
// }
}
```

```
.drag-bg {
position: absolute;
float: left;
```

```
background-color: #ffffff;
height: 36px;
width: 0px;
}
}
.operation {
width: 100%;
height: 55px;
background-color: #FFFFFF;
display: flex;
.tip-text{
width: 192px;
height: 16px;
font-size: 16px;
font-family: Source Han Sans CN;
font-weight: 400;
color: #333333;
margin-top: 0.2rem;
margin-left: 0.28rem;
}
> span {
color: #9fa3ac;
display: inline-block;
width: 40px;
font-size: 25px;
line-height: 40px;
text-align: center;
float: right;
&:hover{
background: #e2e8f5;
}
}
}
}
</style>
```