Web 作业 3 说明文档

191250111 裴为东

实现内容:

1. 通过 express 框架实现注册和登录功能，详见 app.js

2. 通过 mongodb 存放用户的数据，详见 models.js；数据表导出到 users.json

3. 通过 bcrypt 实现了密码加密，详见 models.js

```
const User = mongoose.model('User',new mongoose.Schema({
    username:{type: String, unique: true},
    password:{type: String, set(val){
        return require('bcrypt').hashSync(val,10);
    }},
}));
```

4. 通过 ajax 发送 post 请求，详见 login.html 和 signup.html

```
$.ajax({
    type:"POST",
    dataType:"json",
    crossDomain: true,
    url:'http://localhost:3000/api/register',
    contentType: "application/json",
    data:JSON.stringify({
        'username' : username,
        "password" : password,
    }),
    success: function (result){
        console.log(result);
        alert("Sign up succeed!");
        window.location.href="login.html";
    },
    error: function (result){
        console.log(result);
        alert(result.responseJSON.message);
    }
});
```

5. 实现了验证码验证，详见 login.html，通过 createCode()函数生成随机的验证码，在发送请求前验证验证码正确与否，若验证码正确才发送 post 请求

```
var code;
function createCode() {
    code = new Array();
    var len = 4;
    var vcode = document.getElementById("vcode");
    vcode.value = "";
    var char = new Array(2,3,4,5,6,7,8,9,'A', 'B', 'C', 'D', 'E', 'F', 'G',
    for(var i=0;i<len;i++){
        var index = Math.floor(Math.random()*32);
        code += char[index];
    }
    if(code.length != len){
        createCode();
    }
    vcode.value = code;
}
```

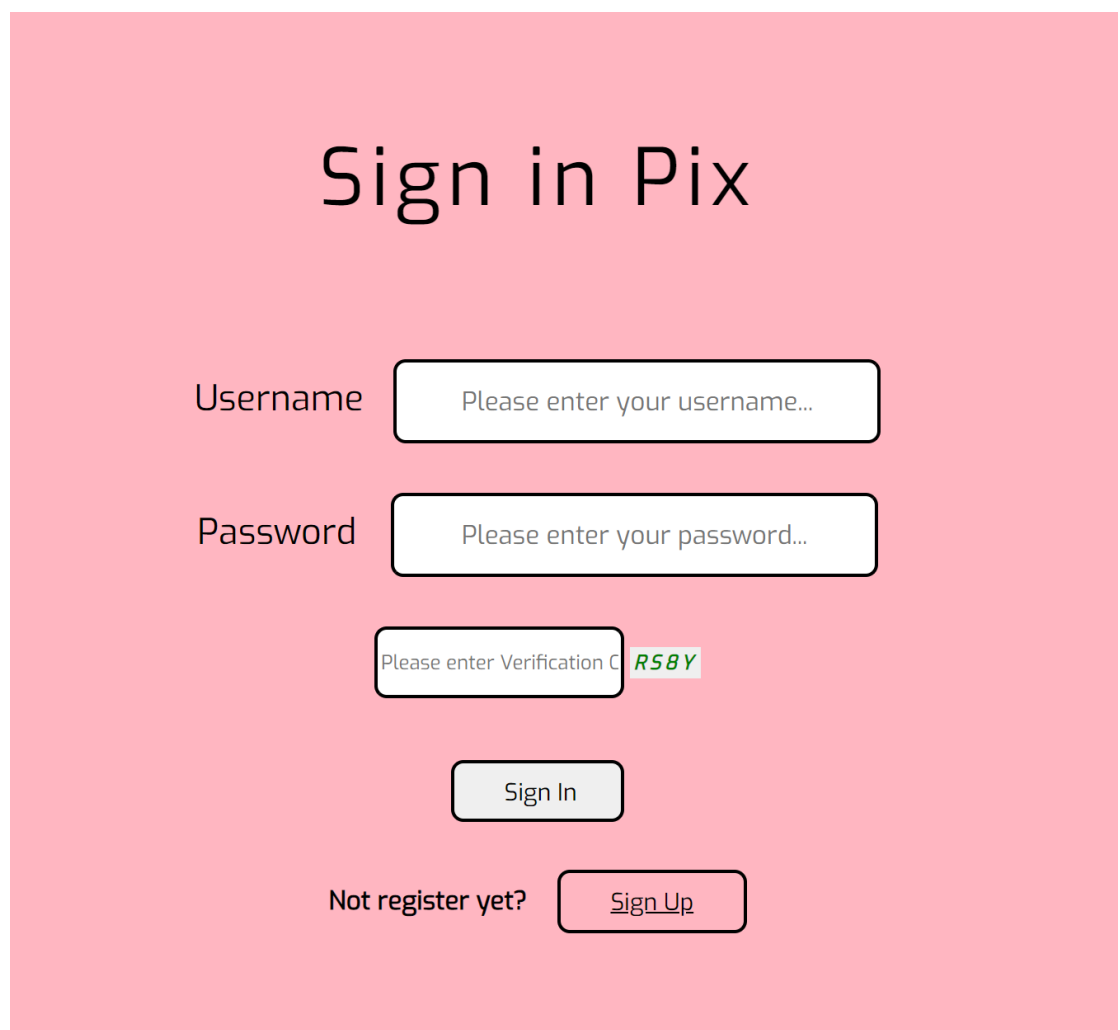6. 采用正则表达式规定了密码的格式，规定了用户名为 4-20

位的字母或数字，密码为 6-16 位的字母或数字

```
<input class="input" id="username" type="text" pattern="^[a-zA-Z0-9]{3,19}$" placeholder="Latin symb
<br />
<span class="hint">Password </span>
<input class="input1" id="password" type="password" pattern="^[a-zA-Z0-9]{5,15}$" placeholder="Latin
```

7. 实现了简单的密码轻度提示，当密码为空时提示"password is blank"；当密码不足 6 位时提示"not long enough"；当密码为 6-10 位时提示"could be stronger"；当密码为 10-16 位时提示"strong enough"；当密码超过 16 位时提示"too long"。详见 signup.html
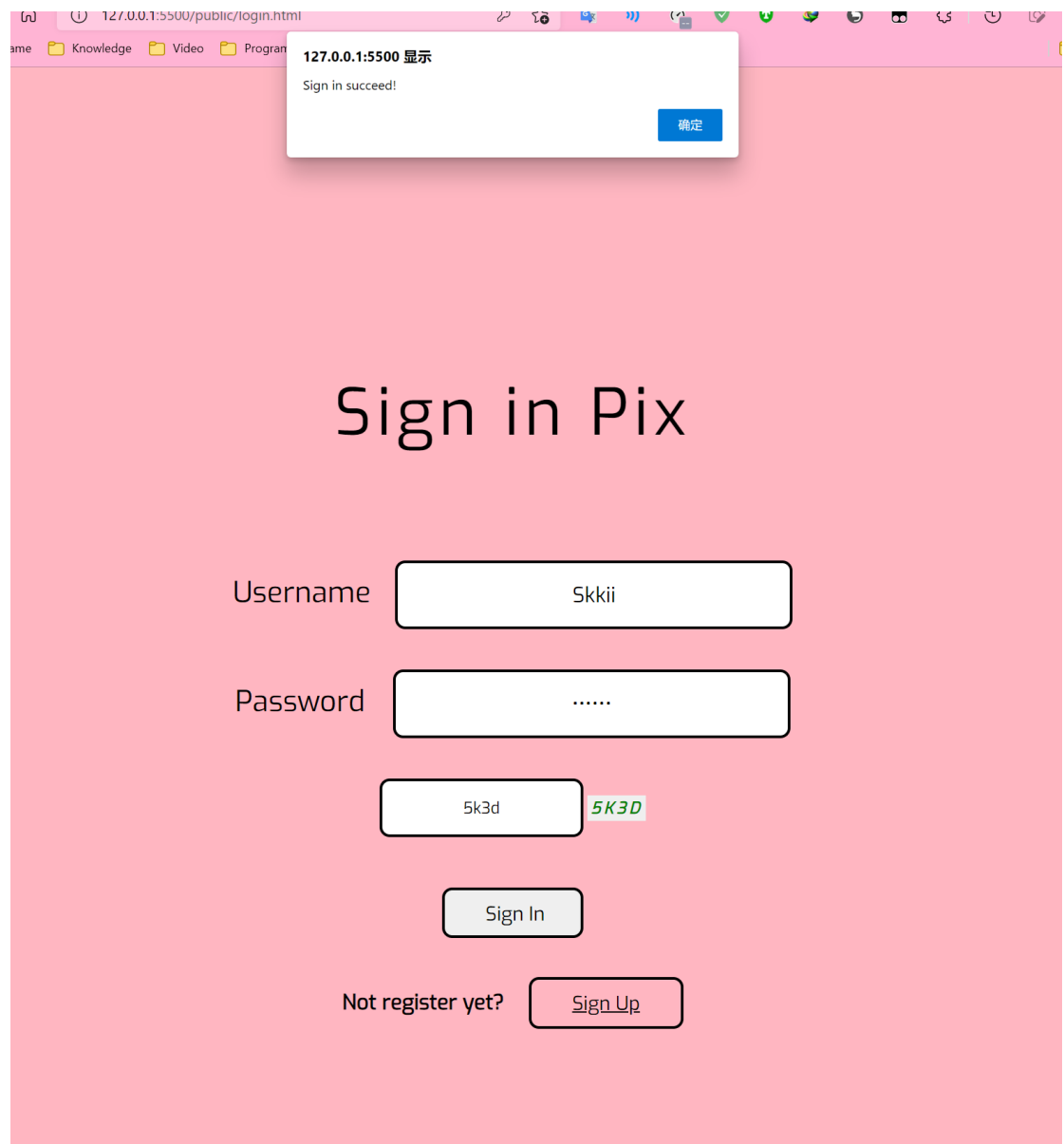
8. 界面截图：

登录界面

登录成功

注册界面

Sign up Pix

Username Latin symbols(A-z),digits(0-9) 4 to 20 ch

Password Latin symbols(A-z),digits(0-9) 6 to 16 ch

Password is blank

Sign Up

Already register? Sign In

注册成功

127.0.0.1:5500 显示

Sign up succeed!

确定

Sign up Pix

Username   Skkii

Password   ……

Could be stronger

Sign Up

Already register?   Sign In

数据表

Local

user.users
Documents

user.users

| | | | | | DOCUMENTS 8 | TOTAL SIZE 1.0KB | AVG. SIZE 127B | INDEXES 2 | TOTAL SIZE 73.7KB | AVG. SIZE 36.9KB |

∨ 4 DBS   2 COLLECTIONS   ↻

☆ FAVORITE

Documents   Aggregations   Schema   Explain Plan   Indexes   Validation

HOST
localhost:27017

CLUSTER
Standalone

⊘ FILTER   { field: 'value' }   ▸ OPTIONS   **FIND**   RESET   ↺   •••

EDITION
MongoDB 5.0.5 Community

⬇ ADD DATA ▾   ⬆   VIEW ☰ {} ▦   Displaying documents **1 - 8** of **8**   ‹   ›   ↻ REFRESH

🔍 Filter your data

⌂ users

> admin

	_id ObjectId	username String	password String	__v Int32	
1	61b4b7bb67c465eddd9ae4dc	"sdfase"	"$2b$10$TmNnKTI12jc6bJJfqjXhBeH	0	✎ ⎘ ☐ 🗑
2	61b4b808eac1d26cd7d421e8	"sdfawefa"	"$2b$10$vEP34FZyXIgYe76zeDz.0.J	0	✎ ⎘ ☐ 🗑
3	61b4b830eac1d26cd7d421eb	"sdfaes"	"$2b$10$TIfevY4XfunRHJcVQhc3/.w	0	✎ ⎘ ☐ 🗑
4	61b4b926eac1d26cd7d421ef	"user"	"$2b$10$FiSjXt0yzbVzSSEKPhHzCus	0	✎ ⎘ ☐ 🗑
5	61b4b977eac1d26cd7d421f4	"user1"	"$2b$10$6rGO63i1OqWPAzATMZWBBuR	0	✎ ⎘ ☐ 🗑
6	61b4bae6eac1d26cd7d421f9	"user3"	"$2b$10$KBHKa2I4/Kh21RHGneWOt.1	0	✎ ⎘ ☐ 🗑
7	61b5686f47baa53daebe9cde	"skkii"	"$2b$10$98UQ8x8QAkfm/poyNi4XtuG	0	✎ ⎘ ☐ 🗑
8	61b5db1a92c6dcabe6159be1	"Skkii"	"$2b$10$.wZFvtpPZ02Br830ZemiOur	0	✎ ⎘ ☐ 🗑

> config

> local

∨ user

  ■ users   •••

+

⊘ FILTER   { field: 'value' }   ▸ OPTIONS   **FIND**   RESET   ↺   •••

⬇ ADD DATA ▾   ⬆   VIEW ☰ {} ▦

⌂ users

_MONGOSH   ⌃