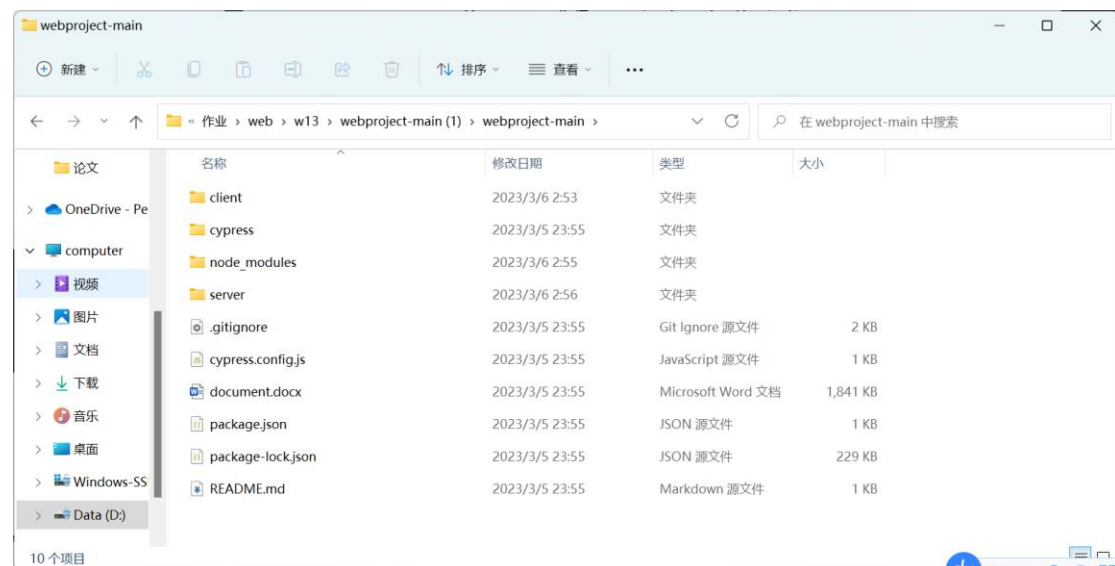


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Student number: 000212869

I use React to be the client side and node.js express to be server side.

Install instructions

Download it from the github



Open in this page in vscode

Install npm in

Run "npm i" here

```
PS D:\作业\web\w13\webproject-main (1)\webproject-main> npm i

PS D:\作业\web\w13\webproject-main (1)\webproject-main> cd server
PS D:\作业\web\w13\webproject-main (1)\webproject-main\server> npm i

PS D:\作业\web\w13\webproject-main (1)\webproject-main\server> cd..
PS D:\作业\web\w13\webproject-main (1)\webproject-main> cd client
PS D:\作业\web\w13\webproject-main (1)\webproject-main\client> npm i

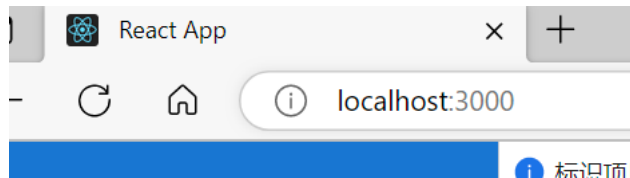
PS D:\作业\web\w13\webproject-main (1)\webproject-main\client> cd..
PS D:\作业\web\w13\webproject-main (1)\webproject-main> npm run dev:client
```

To run this project, you need to run "npm run dev:client" in terminal

```
C:\Users\陈子松>cd D:\作业\web\w13\webproject-main (1)\webproject-main
C:\Users\陈子松>D:
D:\作业\web\w13\webproject-main (1)\webproject-main>_
```

And run npm run dev:server in cmd

```
D:\作业\web\w13\webproject-main (1)\webproject-main>npm run dev:server
```

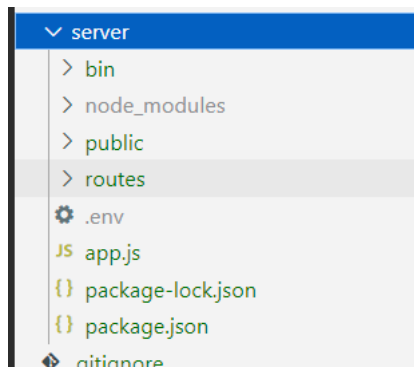


Then you will find it:

You can see a header you can use it to go to the page you want



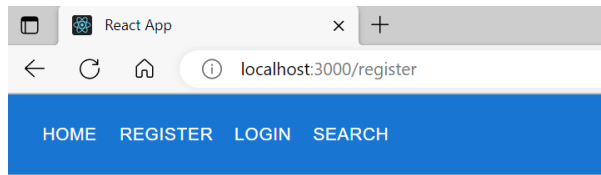
- Implementation of backend with Node.js
 - You can of course use Express, Meteor or any other additional framework
 - Java, PHP, Perl, Python, Ruby or other language solutions are **not allowed** in this course



- Utilization of database
 - MongoDB, MariaDB or any other you see fit

```
U 85 const mongoose = require('mongoose');
U 86 const { time } = require('console');
U 87 mongoose.connect('mongodb://127.0.0.1:27017/testdb');
```

- Authentication
 - Users have to have an option to register and login
 - You can use JWT or session based authorization
 - Only authenticated users can post, comment (or vote)



Register

admin	提交
-------	-------	----



login

admin	提交
-------	-------	----

```
app.post("/api/user/login", (req, res) => {
  var name=req.body.email;
  var pass=req.body.password;

  users.findOne({email:name},function(err,food){
    if(!food||err){
      res.status(401).send({
        "success": false,
        "a": "success",
        "msg": "Invalid credentials",
      });
    }else{
      item=food;
      console.log(item)
      let password=item.password
      let correctpass= bcrypt.compareSync(pass,password)
      if(correctpass){
        const jwtPayload = {
          email: name,
          id:item.id
        }
        jwt.sign(
          jwtPayload,
          process.env.SECRET,
          {
            expiresIn: "100m"
          },
          (err, token) => { (property) success: boolean
            return res.json({success: true, token});
          });
      }
    }
  });
});
```

The use of jwt

Prohibit posting and commenting without being logged in

But you can see posts in Home page and see comments by press the "view comments" in each post to see related comments

Posts

Title:azz

azz

by azz

last modified:Sun Mar 05 2023 06:57:46 GMT+0800 (中国标准时间)

[VIEW COMMENTS](#) [EDIT POST](#) [DELETE](#)

Title:azz

azz

Comments for Post 6403ccea636a2f54f64122a

comments:asasasaa

by admin

last modified: Sun Mar 05 2023 19:24:51 GMT+0800 (中国标准时间)

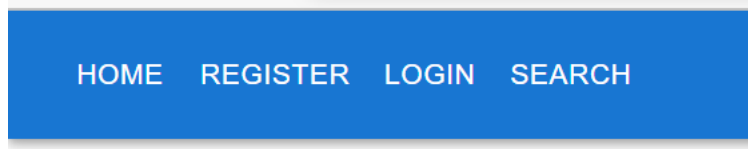
[EDIT COMMENT](#) [DELETE](#)

no allowed to comment without login

• [Previous](#) **1** [Next](#)

no allowed to post your code without login

- Only authenticated users can post, comment (or vote)
- Features
 - Authenticated users can:
 - Post new code snippets
 - Comment on existing posts
 - Non-authenticated users can see posts, comments (and **vote counts**)
 - There is some page listing all the post, after opening one post, comments are also listed



logout

logout

When you login, you can post in the end of “home” page and comment in “view comment” Comment:

Comments for Post 6404783d5a9bf56a15270b7f

comments

comment

post:(it is necessary to select language)



by admin

last modified:Sun Mar 05 2023 19:08:45 GMT+0800 (中国标准时间)

[VIEW COMMENTS](#) [EDIT POST](#) [DELETE](#)

• [Previous](#)

1

title

code

Language:

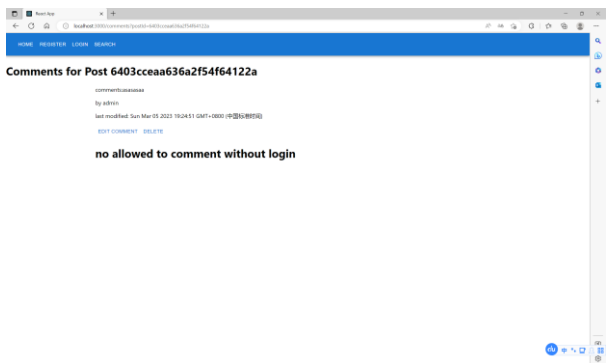
-select- ▼

post

All posts are listed in “home” page

- Responsive design
 - The app needs to be usable with mobile devices and desktop browsers
 - Use of Materialize or Bootstrap is recommended

• Documentation



Basic Features (as stated in the previous chapter) with well written documentation	25
--	----

So far, we finish the basic part to get 25 points. Sum=25

Users can edit their own comments/posts	4
---	---

Title:azz

azz

by azz

last modified:Sun Mar 05 2023 06:57:46 GMT+0800 (中国标准时间)

[VIEW COMMENTS](#) [EDIT POST](#) [DELETE](#)

comments:asasasaa

by admin

last modified: Sun Mar 05 2023 19:24:51 GMT+0800 (中国标准时间)

[EDIT COMMENT](#) [DELETE](#)

You can press 'edit post' and 'edit comment' to type the new content and title

My Data

Edit for Post 6403ccea636a2f54f64122a

Edit for Comments 64047c035a9bf56a15270ba8

But you are not allow to edit when you are not login

My Data

Edit for Post 64046f8dbee4aa428b05742e

Edit for Comments 64047c035a9bf56a15270ba8

no allowed to edit post without login

no allowed to edit comment without login

And if you are not the owner of post and comment you are not allowed to edit.(unless you are the admin account)

localhost:3000 显示
You are not authorized to update this post

确定

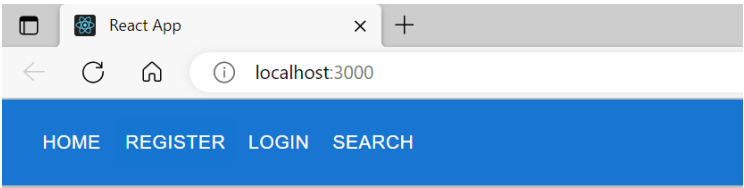
5

localhost:3000 显示
You are not authorized to update this comment

确定

Sum =25+4=29

Utilization of a frontside framework, such as React, but you can also use Angular, Vue or some other	5
--	---



Posts

Title:azz

```
import React, { useState ,useEffect} from 'react';
```

You can easily find I use React in client side

Sum=25+4+5=34

Now you can see the

Create (unit) tests and automate some testing for example with <https://www.cypress.io/> (at least 10 cases have to be implemented)

5

Then I use React in my client side.

The image displays three screenshots of Cypress test runs for a web application, showing the command log on the left and the application UI on the right.

test1-search.cyp

```
template spec
  passes
  TEST BODY
    1 visit http://localhost:3000/
    2 get [href="/Search"]
    3 -click
      (new url) http://localhost:3000/Search
    4 get #word
    5 -type z
    6 get .MuiContainer-root > .MuiButtonBase-root
    7 -click
    8 (fetch) POST 200 http://localhost:1234/api/posts
    9 (fetch) POST 200 http://localhost:1234/api/search
```

The application UI shows a search form with the input "z" and a "SEARCH" button. Below the button, the results are displayed:

Title:azz
azz
by azz
last modified:Sun Mar 05 2023 06:57:46 GMT+0800 (中国标准时间)
[View CommentsEdit Post](#)

Title:shopping
zzzzz
by admin
last modified:Sun Mar 05 2023 19:05:30 GMT+0800 (中国标准时间)
[View CommentsEdit Post](#)

Title:shopping
zzzzz

test2-register.cyp

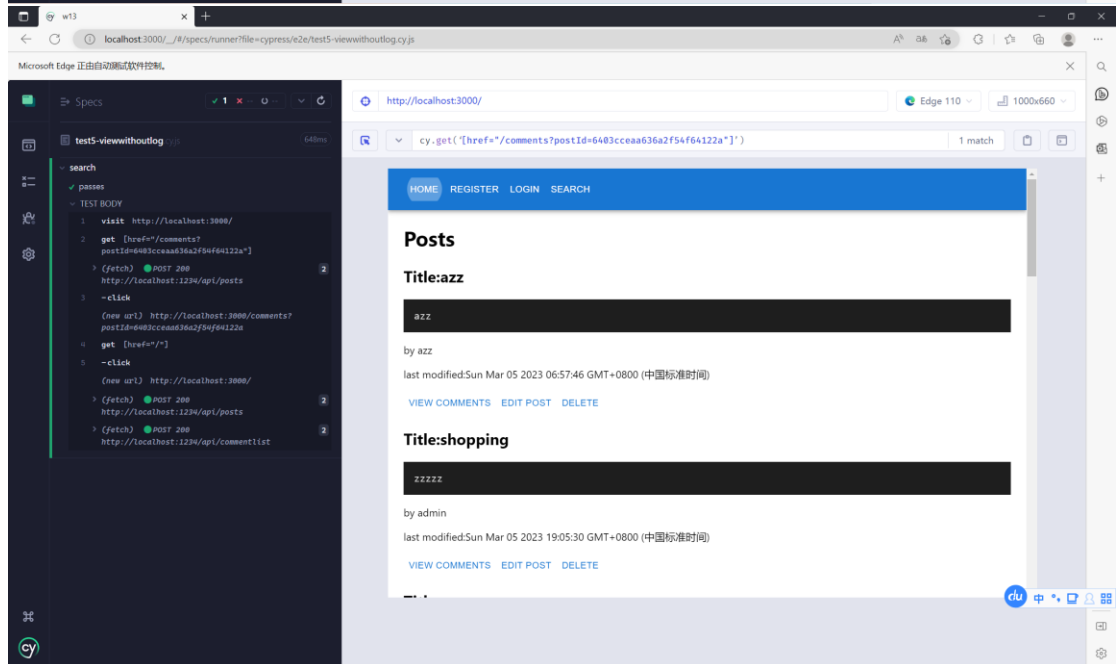
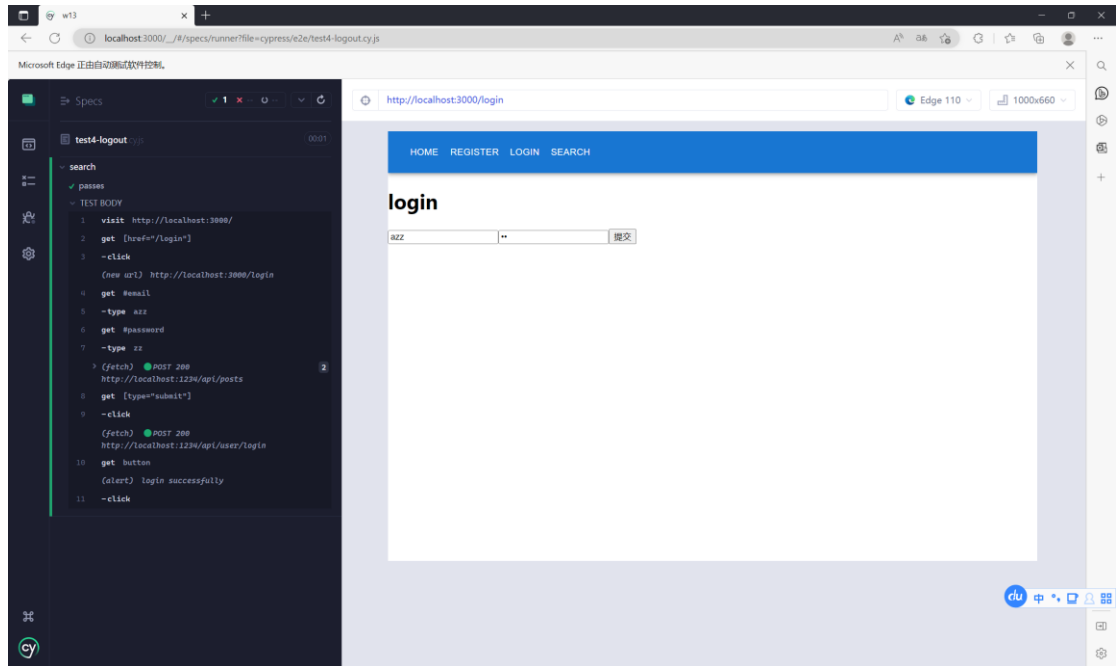
```
search
  passes
  TEST BODY
    1 visit http://localhost:3000/
    2 get [href="/register"]
    3 -click
      (new url) http://localhost:3000/register
    4 get #email
    5 -type aazz
    6 get #password
    7 -type zz
    8 (fetch) POST 200 http://localhost:1234/api/posts
    9 get #register
    10 -click
    11 (fetch) POST 200 http://localhost:1234/api/user/register/
    12 (alert) {"success":true,"m":"success"}
```

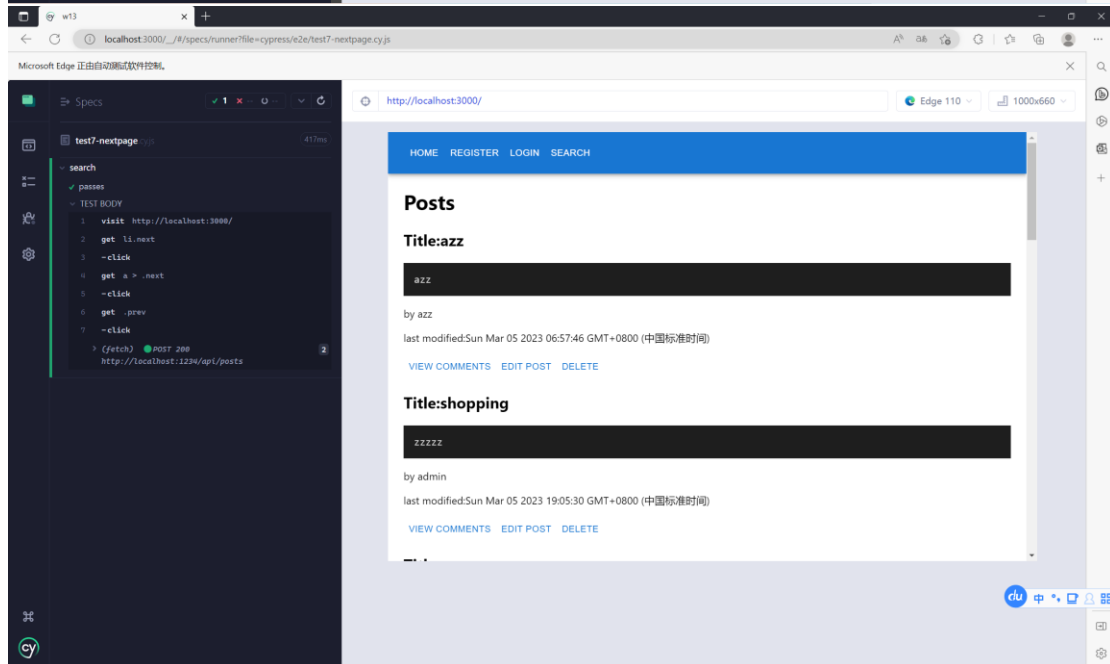
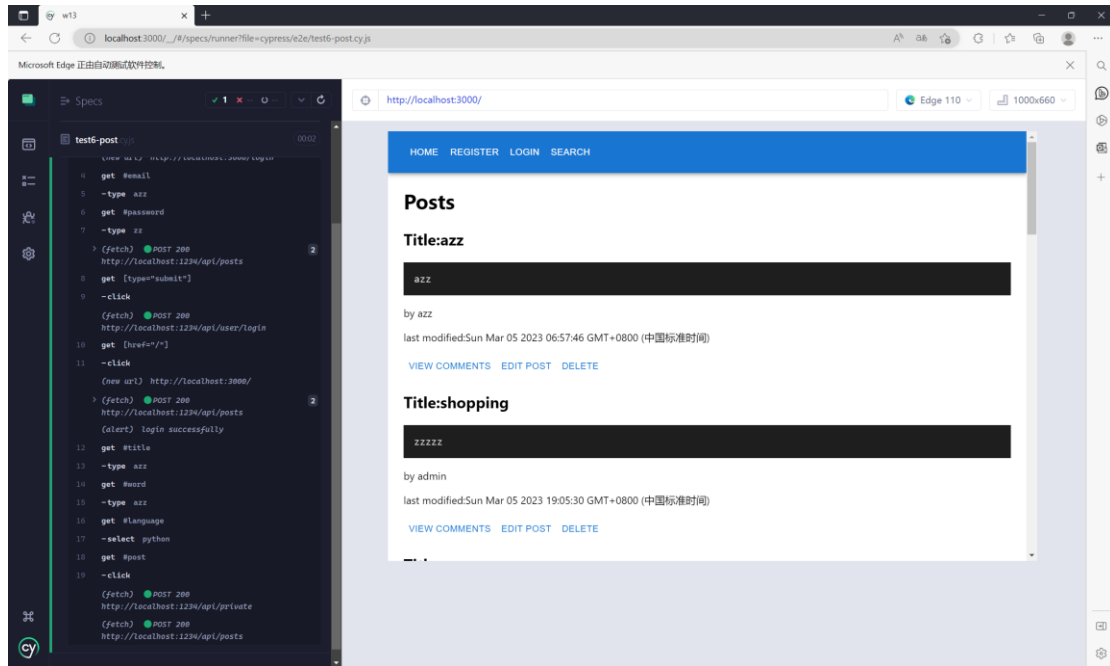
The application UI shows the "Register" form with the input "aazz" and a "提交" button. Below the form, the "DOM Snapshot" is visible.

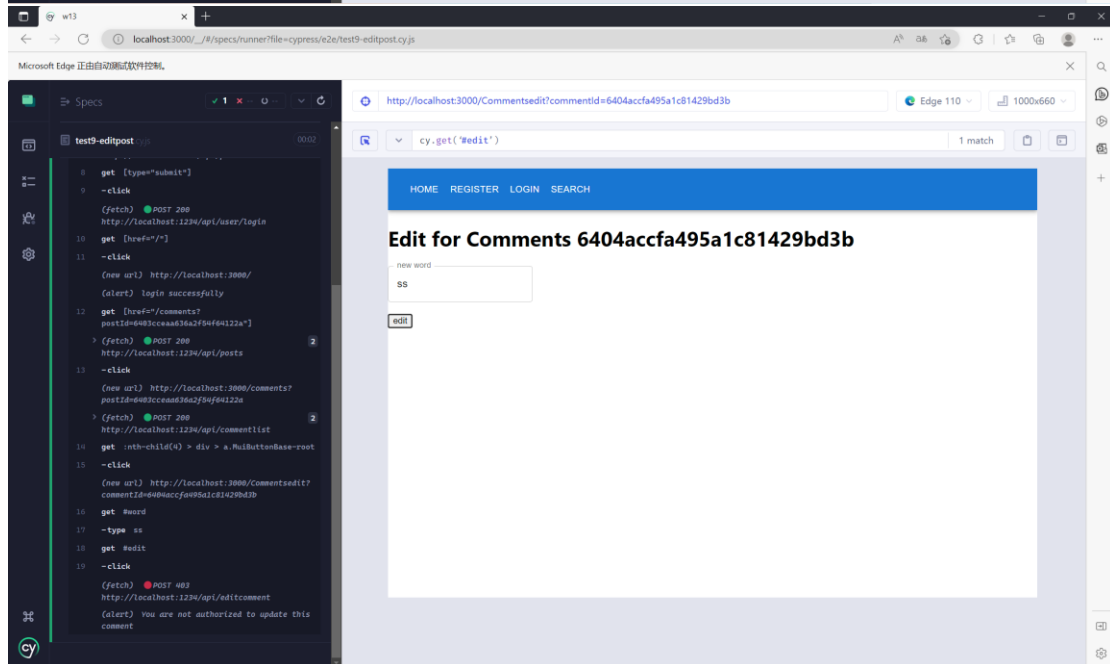
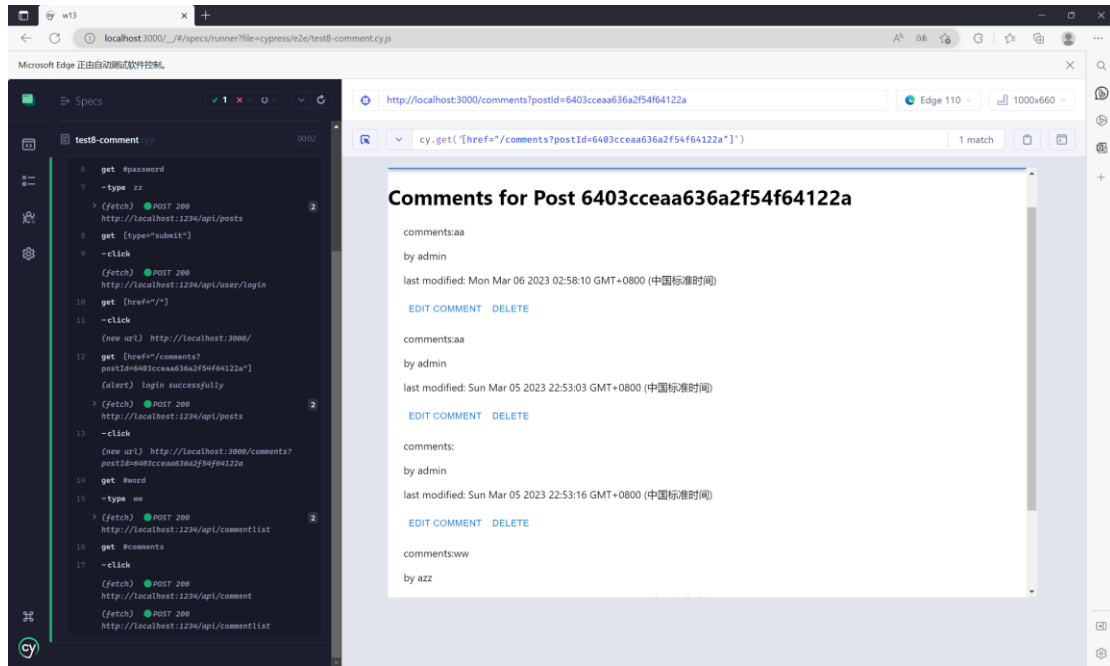
test3-login.cyp

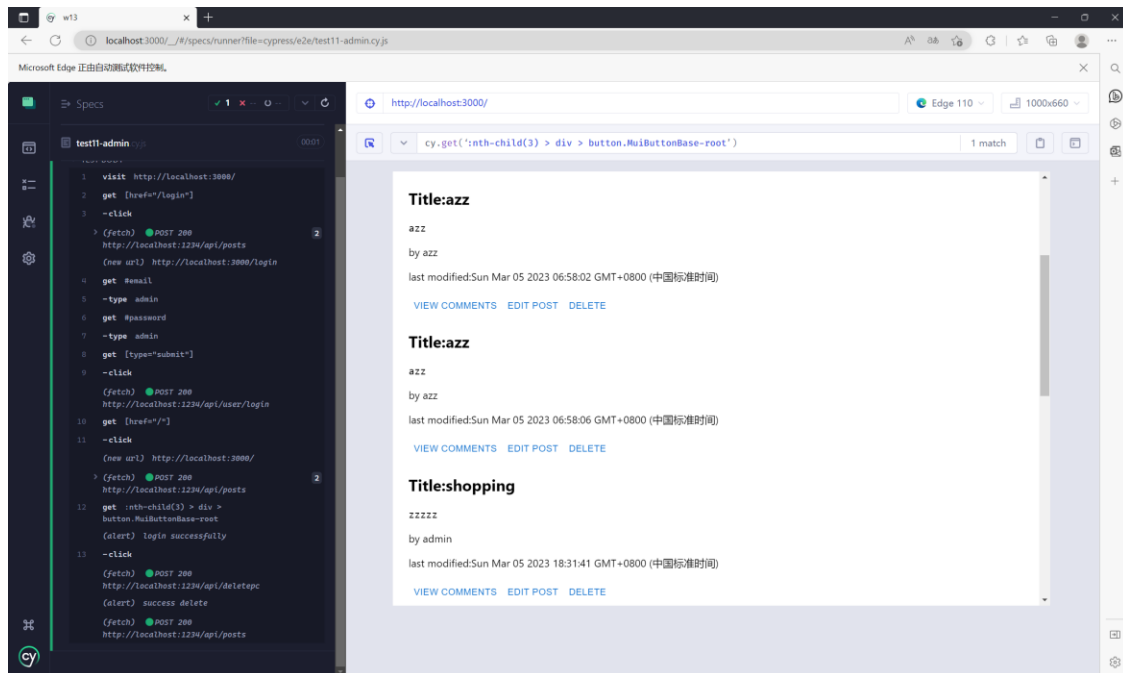
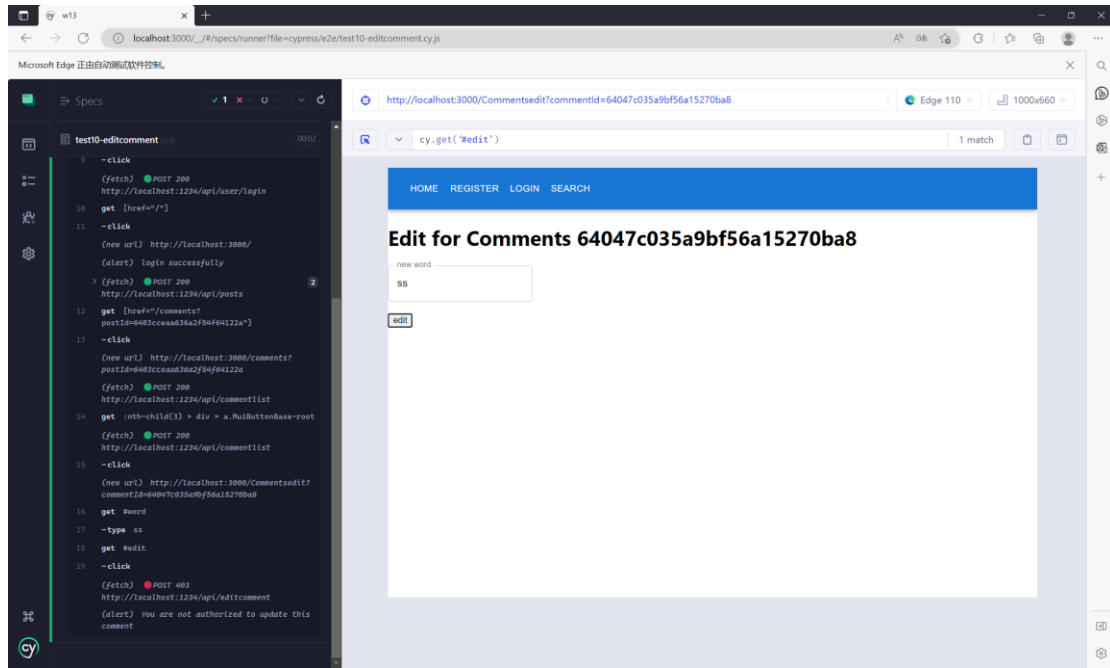
```
search
  passes
  TEST BODY
    1 visit http://localhost:3000/
    2 get [href="/login"]
    3 -click
      (new url) http://localhost:3000/login
    4 get #email
    5 -type azz
    6 get #password
    7 -type zz
    8 get [type="submit"]
    9 -click
    10 (fetch) POST 200 http://localhost:1234/api/posts
    11 (fetch) POST 200 http://localhost:1234/api/user/login
    12 (alert) login successfully
```

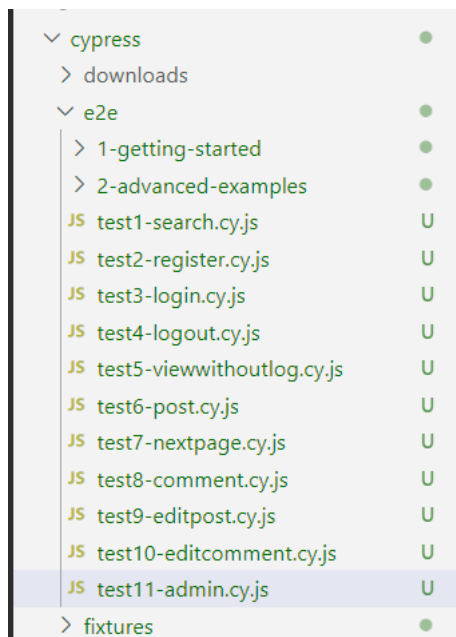
The application UI shows the "logout" button.



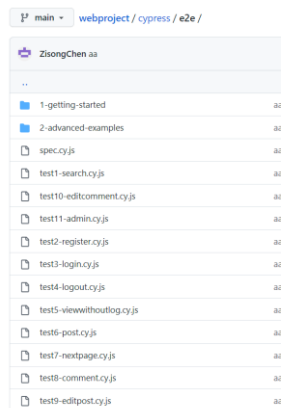








there are the 11 tests I done



Sum=25+5+4+5=39

Last edited timestamp is stored and shown with posts/comments

2

Title:azz

azz comments:asasasaa
by admin

last modified:Sun Mar 05 2023 06:57:46 GMT+0800 (中国标准时间) last modified: Sun Mar 05 2023 19:24:51 GMT+0800 (中国标准时间)

You can see the timestamp of last modified in this the bottom of post and comment

Sum=25+5+4+5+2=41

Use some highlight library for the code snippets, for example
<https://highlightjs.org/>

2

```

1  import React, { useState ,useEffect} from 'react';
2  import { TextField } from '@mui/material';
3  import { Link } from 'react-router-dom';
4  import hljs from 'highlight.js';
5  import "highlight.js/styles/vs2015.css";
6  import ReactPaginate from 'react-paginate';
7  import './pagess.css'
8  import { Container, Button } from '@mui/material';
9  const Page = () => {
10   const [postList, setPostList] = useState([]);
11   var postId;
12   const [currentPage, setCurrentPage] = useState(0);
13   const postsPerPage = 10;
14   const [updateComments, setUpdateComments] = useState(0);
15   useEffect(() => {
16     fetch("http://localhost:1234/api/posts",{
17       method: 'POST',
18       headers: {
19         'Content-Type': 'application/json'
20       }
21     })
22     .then(response => response.json())
23     .then(data => setPostList(data.list))
24     .catch(error => console.log(error));
25   },[updateComments]);
26   hljs.highlightAll()
27   const [post, setpost] = useState({
28     title:"",
29     word:"",
30     language:""
31   })
32 }
```

You can see my use of highlight in Page.js and the result of the use is:



this thing in post.

And when you turn to next page or add a new post ,you need to refresh the page to see the use of highlight or type something here :

title

aa

code

In this way the page will reuse the highlight to render the code.

Sum=25+5+4+5+2+2=43

Use of a pager when there is more than 10 posts available	2
---	---

by AA

last modified:Sun Mar 05 2023 20:16:15 GMT+0800 (中国标准时间)

[VIEW COMMENTS](#) [EDIT POST](#) [DELETE](#)

• [Previous](#) **1** [2](#) • [Next](#)

When the number of your post is larger than 10, another page will appear, you can press "2" or "next" to go to next page(Remember to press the word "Previous" "Next" exactly)
Sum=25+5+4+5+2+2+2=45

Admin account with rights to edit all the post and comments and delete content (if a post is removed, all its comments should be removed too)	3
---	---

When you login with admin account (email:"admin",password:"admin"), You can go to edit all posts and comment as above mentioned ways and you can delete them by "press"

[DELETE](#)

delete button ,then

localhost:3000 显示

success delete

确定

The post or comment will disappear, and when you delete the post, all related comments will be delete as well:

```
app.post("/api/deletepc", (req, res, next) => {
  const pi = req.body.id;
  console.log(req.auth.email)
  if(req.auth.email=="admin"){
    comments.deleteMany({id:pi}, function (err, co) {
      if (err) throw err;
      console.log({co});
    });
  }
  if(req.auth.email=="admin"){
    posts.findOneAndDelete({_id:pi}, function (err, co) {
      if (err) throw err;
      console.log({co});
      return res.send({"msg": "success delete"})
    });
  }
})
```

And if you are not login with admin account, nothing will happen when you press "delete" button

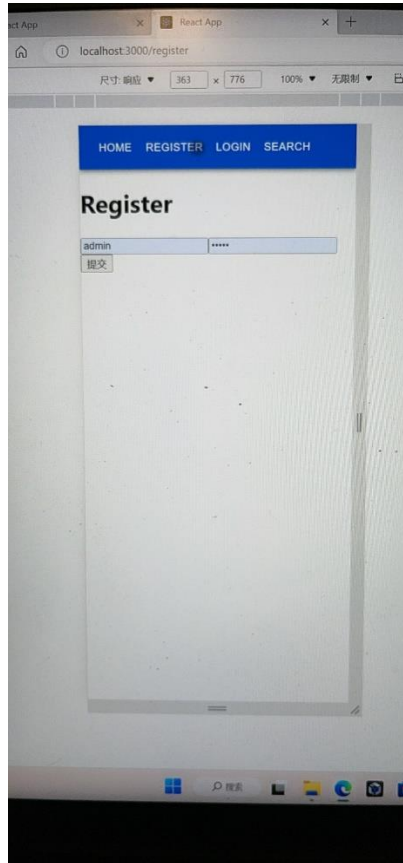
Sum=25+5+4+5+2+2+2+3=48

Test software for accessibility; can it be used only with keyboard / voice command? Can screen readers work with your application?	3
--	---

You need to use keyboard to type things to comment or post.

You can click with mouse to click different button

You can use screen to do the click



Sum=25+5+4+5+2+2+2+3+3=51

Provide a search that can filter out only those messages that have the searched keyword	2
---	---



Click the search button in the header. Type the word you want to search and click search button in the page. Now you can see the related posts who have words in title or code

search

a

SEARCH

Title:azz

azz

by azz

last modified:Sun Mar 05 2023 06:57:46 GMT+0800 (中

[VIEW COMMENTS](#) [EDIT POST](#)

Title:a

aa

Sum=25+5+4+5+2+2+2+3+3+2=53