Web Developer Course Notes

Coop, Entry Level 项目班（三期）

ucareer
—— 优课培训 ——

Lesson 1 – Project Overview

https://ucareer.ca

Lesson 1 – Project Overview

Lesson 1 – 课后练习

1. 前后端是如何相互交互的以及对应的 technical term?

Front End:
Back End:
Database:

2. 这次的Project Scope 有哪些？（例举本次项目将要完成的feature）

3. 以 lesson 为resource 设计一个 restful 的API。API包含list many，create one， get one by id， update one， delete one。

Lesson 2 – HTML/CSS/JS

Lesson 2 – 课后练习

1.What is the default http post method of form submit?

2.What is cdn? What is the different between cdn and npm?

3.What is the reason to add document ready or DOMContentLoaded?

4.Complete the jQuery question
https://codepen.io/goodspeed-hl/pen/qBdBvye
Use only one selector to find out all inputs start with firstName and output as json string
the final format will looks like [{"firstName":"peter"},{"firstName":"john"}

5.use this resource link https://jsonplaceholder.typicode.com/comments to output the data in codepen or other editor tools
to find 20 comments
to find within 20 users, output all comments belongs to post 2

Interview Questions

1.Asynchronous vs Deferred JavaScript
https://bitsofco.de/async-vs-defer/

2.JavaScript Immediately-invoked Function Expressions
https://flaviocopes.com/javascript-iife/

Lesson 3 – Server: Auth Processing

Lesson 3 – 课后练习

1. What is the JWT? and the different with cookie

2*. Show the authentication processing by the simple diagram (tips: user register, email confirm, login, forgot password and reset password)

3*.Show user login behavior and how to use the token to identify the context (by diagram)

4*.In Java SpringBoot, write the "api/users" as example for following usage:

[GET/POST]   api/users…

private response test(@PathVariable id){…} :

private response test(@RequestParam name){…} :

private response test(@RequestBody userRequest){…} :

5.In SpringBoot, what's the model-repository-service-controller relationship?

6.Finish the register/login/forgot/reset password API in your own branch. Think about how to design the API to get user basic information and update it (profile)

Lesson 4 – React Basic overview

Lesson 4 Quiz

1. What happens when you call setState() inside render() method?

2.

Assuming that the handleLink function performs a state change via this.setState, which of the following links will work?

```
handleLink() {
    this.setState({
        myVar: 'Company'
    });
}
```
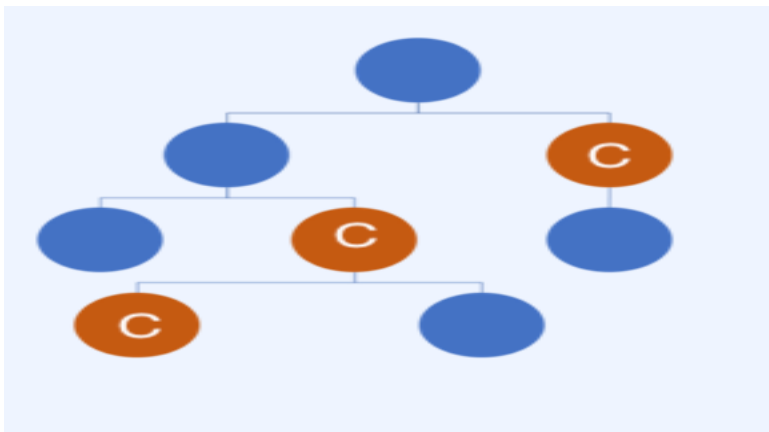
```
<a href="#" onClick=(this.handleLink)>

<a href="#" onClick={this.handleLink.bind(this)}>

<a href="#" onclick={this.handleLink}>

<a href="#" onPress={this.handleLink}>
```


3. Assume components with world "C" 's state changed, answer following questions.

How many components will re-render?

How many times the browser dom will update?

Can you explain why react is fast in dom rendering using the same diagram as example?

4. **use this resource link https://jsonplaceholder.typicode.com/comments to output the data in codepen or other editor tools** to display a table using react

result table

Comment Id	Post Id	Comment User Email and name	Comment content
1	1	Test User<a@example.com>	This is my comment

Lesson 5 – Server: Auth/Profile API

Lesson 5 Quiz – Server: Auth/Profile API

1. 给以下@Annotation分类

A：Model   B：Controller C：Repository D：Service

@Entity

@GetMapping("/user/confirm/{token}")

@Id

@RequestHeader("Authorization")

@JsonProperty

@Repository

@Autowired

@NotBlank

@RestController

@RequestMapping("/api")

@PostMapping("/register")

@Column

@RequestBody

@PathVariable

@Table

@Service("UserService")

2. 以（@RequestBody User user）为例，写一个 可能的requestBody Object

A：success

B：error 1

C：error 2