Web dev

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```
11 CSS
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 Project feature request and problems
1
1. 怎样知道priceArr的数据结构
          (E:\eastSun\ylx-pc-beta\src\components
 \LowPriceCalendar\index.js)
 priceArr
 Array(0) [, …]
 [[StableObjectId]]: 6
 2019-02-02: Object {price: 57, surplusStock: 99}
```

```
2019-02-09: Object {price: 57, surplusStock: 99}
2019-02-16: Object {price: 57, surplusStock: 99}
2019-02-23: Object {price: 57, surplusStock: 99}
2019-03-02: Object {price: 57, surplusStock: 99}
2019-03-09: Object {price: 57, surplusStock: 99}
2019-03-16: Object {price: 57, surplusStock: 99}
2019-03-23: Object {price: 57, surplusStock: 99}
2019-03-30: Object {price: 57, surplusStock: 99}
length: O
__proto__: Array(O) [, …]
```

- 2. 与后台进行数据交互时,注意判断是字符串还是数字,比如 needEmail === "1"。 "0" 也为 true
- 3. 使用localStorage的时候,打开一个标签然后另外再打开一个标签,则第一个标签里面的内容会变成第二个标签的内容
- 4. 微信门票列表搜索框, 当需要对历史搜索里面的数据进行修改时, 点击输入框 后文字消失

2 Things to be done before commit

- 1. Indent using tabs, and set tab size to 2
- 2. Delete console.log()
- 3. Format document by pressing shift+alt+f in VSCode

3 Caveats

- 1. 以后需要避免测试人员回家了,我还有bug没有解决
- 2. 门票提交订单右半部分高度不随左半部分出游人增多而增加,可以新增一个div
- 3. codecademy 里面少一个标点符号或者拼写错误都会导致编译不通过
- 4. 找错的时候,首先应该用chrome developer tool确定位置

5. let tourists = 'John,'
 tourists.split(',').map(item => ({name: item }))
 will return an array containing two objects
 [{name: 'John'}, {name: ''}]

- 6. 如果当前页面有从localStorage里面取数据,那么就不能直接在url上面写参数 (比如知道某个goodsTicketId,然后直接加到url后面),因为请求的数据会跟从localSto 面取的数据不一样导致混淆
- 7. dangerouslySetInnerHTML 里面的样式是用原生css写
- 8. 注意将less文件导入到js文件中
- 9. chrome和firefox浏览器之间可能有兼容性问题,比如用css属性设置文字超过四 行用省略号
- 10. When debugging in VSCode, if you want a variable live updating then add it to watch, there's no live updating in the debug console
- 11. 数据在loading完成之前是undefined,所以不能对其进行诸如 address.constructor === Object的操作 (不能读取其constructor property)
- 12. fontSize比lineHeight应该小1
- 13. When a breakpoint is not hitted in VSCode, you may need to stop by pressing shift+F5 and then restart by pressing F5, and also if there's a new browser tab open then the breakpoint won't be hitted. You can try copy the path url into a new tab and see
- 14. 使用iconfont的时候,不知道怎么引用到项目中,可以点击"下载至本地"里面包含一个使用demo
- 15. You can set a breakpoint in VSCode, then add a Watch in chrome, because chrome has auto-complete feature. The debug config file launch.json's url needs to be set according to the running port
- 16. minimize window by shortcut: alt+space+n
- 17. 用chrome来调试的时候,可能需要用到_this来获取一些变量或对象等的值

- 18. Postman需要开启全局代理才能请求到数据
- 19. chrome inspect: margin 红 padding 绿 content 蓝
- 20. Maybe you need to set the breakpoint inside the body of an arrow function in order to be hit
- 21. After configured webpack.config.js file, you may need to recompile to make it work
- 22. Chrome developer tools: open the Elements tab to inspect the compiled html
- 23. import vs require: import can bring in only the desired function

```
import {countItems} from ''math_array_functions''
```

- 24. <meta name="viewport" content="width= device-width, initial-scale= 1">
- 25. FTP is the primary method by which people upload files to webservers. However, services like GoDaddy and others often try to provide simpler ways to upload files.
- 26. There is a space between body and asterisk

```
body, body *{
    margin: unset;
    padding: unset;
}
```

27. Sometimes you have to close the page and then reload from webstorm to make the change take place

4 Git

4.1 Basic Git Workflow

```
git init
git status inspects the contents of the working directory and staging area
git add filename_1 filename_2 add files/changes to the staging area. git add .
or git add -A shortcut for adding all the files to the staging area
```

git diff filename press q on your keyboard to exit diff mode. If no content has been changed then nothing will appear. Diff between add and changes after add git commit -m "Complete first line of dialogue" Standard Conventions for Commit Messages:

- Must be in quotation marks
- Written in the present tense
- Should be brief (50 characters or less) when using -m

git log Commits are stored chronologically in the repository and can be viewed using this command

4.2 How to Backtrack in Git

4.2.1 head commit

In Git, the commit you are currently on is known as the HEAD commit. In many cases, the most recently made commit is the HEAD commit

To see the HEAD commit, enter: git show HEAD

The output of this command will display everything the git log command displays for the HEAD commit, plus all the file changes that were committed

4.2.2 git checkout

What if you decide to change the ghost's line in the working directory, but then decide you wanted to discard that change?

git checkout HEAD filename or git checkout -- filename will restore the file in your working directory to look exactly as it did when you last made a commit

Here, filename again is the actual name of the file. If the file is named changes.txt, the command would be

git checkout HEAD changes.txt

4.2.3 git reset I

What if, before you commit, you accidentally delete an important line from scene-2.txt? Unthinkingly, you add scene-2.txt to the staging area. The file

change is unrelated to the Larry/Laertes swap and you don't want to include it in the commit

We can unstage that file from the staging area using git reset HEAD filename

4.2.4 git reset II

Git enables you to rewind to the part before you made the wrong turn. You can do this with:

git reset commit_SHA

This command works by using the first 7 characters of the SHA of a previous commit. For example, if the SHA of the previous commit is

5d692065cf51a2f50ea8e7b19b5a7ae512f633ba, use:

git reset 5d69206

HEAD is now set to that previous commit

Before reset: HEAD is at the most recent commit

After resetting: HEAD goes to a previously made commit of your choice. You have in essence rewound the project's history

Then you may want to discard all the changes in that commit with git checkout HEAD filename

4.3 Git Branching

Up to this point, you've worked in a single Git branch called master. Git allows us to create branches to experiment with versions of a project. Imagine you want to create version of a story with a happy ending. You can create a new branch and make the happy ending changes to that branch only. It will have no effect on the master branch until you're ready to merge the happy ending to the master branch

- You can use following command to answer the question: "which branch am I on?" git branch
- To create a new branch, use: git branch new_branch. Also, branch names can't contain whitespaces: new-branch and new_branch are valid branch names, but new branch is not
- You can switch to the new branch with: git checkout branch_name (notice the
 * is now over the new branch)

• Once you switch branch, you now able to make commits on the branch that have no impact on master

4.3.1 git merge

- Switch to master branch with git checkout master
- Merge new branch to master branch using git merge new_branch
- The merge is a "fast forward" because Git recognizes that fencing (created new branch) contains the most recent commit. Git fast forwards master to be up to date with fencing

4.3.2 delete branch

In Git, branches are usually a means to an end. You create them to work on a new project feature, but the end goal is to merge that feature into the master branch. After the branch has been integrated into master, it has served its purpose and can be deleted

The command git branch -d branch_name will delete the specified branch from your Git project. If some feature branches were never merged into master, then use the uppercase D, like git branch -D branch_name

4.3.3 Conclusion

- git branch: Lists all a Git project's branches
- git branch branch_name: Creates a new branch
- git checkout branch_name: Used to switch from one branch to another
- git merge branch_name: Used to join file changes from one branch to another
- git branch -d branch_name: Deletes the branch specified

4.4 Git Teamwork

4.4.1 git clone

git clone remote_location clone_name

- remote_location tells Git where to go to find the remote. This could be a web address, or a filepath
- clone_name is the name you give to the directory in which Git will clone the repository

For example, you're collaborating with Sally, the Git remote Sally started is called: science-quizzes

git clone science-quizzes my-quizzes

my-quizzes is your local copy of the science-quizzes Git project. If you commit changes to the project here, Sally will not know about them

4.4.2 git remote -v

Nice work! We have a clone of Sally's remote on our computer. One thing that Git does behind the scenes when you clone science-quizzes is give the remote address the name origin, so that you can refer to it more conveniently. In this case, Sally's remote is origin.

You can see a list of a Git project's remotes with the command: git remote -v. The remote is listed twice: once for (fetch) and once for (push). We'll learn about these later in the lesson

4.4.3 git fetch

An easy way to see if changes have been made to the remote and bring the changes down to your local copy is with:

git fetch

This command will not *merge* changes from the remote into your local repository. It brings those changes onto what's called a *remote branch*. Learn more about how this works below

4.4.4 git merge

Even though Sally's new commits have been fetched to your local copy of the Git project, those commits are on the origin/master branch. Your *local* master branch has not been updated yet, so you can't view or make changes to any of the work she has added

In Lesson III, Git Branching we learned how to merge branches. Now we'll use the git merge command to integrate origin/master into your local master branch. The command:

git merge origin/master | git merge origin/dev will accomplish this for us

4.4.5 git push

Now it's time to share our work with Sally.

git push origin your_branch_name | git push origin HEAD:dev

will push your branch up to the remote, origin. From there, Sally can review your branch and merge your work into the master branch, making it part of the definitive project version.

4.5 create-react-app and git

- 1. create-react-app myapp will initialize a git repository
- 2. create a new repository on github, then push existing repository from command line using following commands

git remote add origin https://github.com/Jiapan-Yu/newTest.git
git push -u origin master

3. then create a new branch with git branch dev and switch to that branch git checkout dev

4.6 Your branch and 'origin/master' have diverged, how to undiverge branches?

You can review the differences with a: git log HEAD..origin/master before pulling it (fetch + merge), see merge or rebase

5 VSCode

•

- source control: modified 为蓝色 added 为暗橙色
- 搜索只能搜内容,无法搜索哪个文件夹

• type tab key twice to autocomplete

6 React

);

```
6.1 创建React项目 Add React to a New Application
```

document.getElementById('root')

```
1. npm install -g create-react-app
2. create-react-app myapp
3. cd myapp
4. npm start
5. When you're ready to deploy to production, running npm run build will create
  an optimized build of your app in the build folder
  import React from 'react';
  import ReactDOM from 'react-dom';
  class App extends React.Component {
    render() {
      return (<h1>React setup</h1>);
    }
  }
  ReactDOM.render(
    <App />,
```

- 6. 默认所有配置是隐藏起来的,要想自定义配置,需要运行一个命令: npm run eject。接着package.json里面的scripts键会变为node。npm start 运行正常
- 7. install less and mini-css-extract-plugin to use less and extract css into one file, configured webpack.config.dev.js. Add following lines in the correct places

```
const MiniCssExtractPlugin = require("mini-css-extract-plugin");
```

```
// adds support for css and less
{
   test: /\.(css|less)$/, /* need this less */
   use: [
     MiniCssExtractPlugin.loader,
     "css-loader",
     "less-loader" /* need this line */
   ]
}

new MiniCssExtractPlugin({
   // Options similar to the same options in webpackOptions.output
   // both options are optional
   filename: "[name].css",
   chunkFilename: "[id].css"
}),
```

6.2 JSX

1. Event Listeners in JSX

```
<img onClick={myFunc} />
```

An event listener attribute's name should be something like onClick or onMouseOver: the word on, plus the type of event that you're listening for. Supported Events

Note that in HTML, event listener names are written in all lowercase, such as onclick or onmouseover. In JSX, event listener names are written in camelCase, such as onclick or onMouseOver

2. Variable Attributes in JSX

```
// Use a variable to set the 'height' and 'width' attributes:
const sideLength = "200px";
```

```
const panda = (
    <img
        src="images/panda.jpg"
        alt="panda"
        height={sideLength}
        width={sideLength} />
);
```

3. Everything inside of the curly braces will be treated as regular JavaScript

```
ReactDOM.render(
    <h1>{2 + 3}</h1>,
    document.getElementById('app')
);
```

The result is 5

4. ReactDOM.render() is the most common way to render JSX:

```
ReactDOM.render(<h1>Hello world</h1>, document.getElementById('app'));
```

- 5. There's a rule that we haven't mentioned: a JSX expression must have exactly one outermost element.
- 6. If a JSX expression takes up more than one line, then you must wrap the multiline JSX expression in parentheses. This looks strange at first, but you get used to it:

7. JSX elements are treated as JavaScript expressions. They can go anywhere that JavaScript expressions can go.

That means that a JSX element can be saved in a variable, passed to a function, stored in an object or array...you name it

8. JSX is a syntax extension for JavaScript. It was written to be used with React. JSX code looks a lot like HTML

6.2.1 JSX caveats

- 1. You can't use JSX until you've imported react
- 2. One outermost tag
- 3. You can not inject an if statement into a JSX expression.

This code will break:

- 4. In JSX, self-closing tags have to include the slash, otherwise it will raise an error
- 5. In JSX, you can't use the word class! You have to use className instead:

```
<h1 className="big">Hey</h1>
```

This is because JSX gets translated into JavaScript, and class is a reserved word in JavaScript

6.2.2 JSX conditionals

1. The Ternary Operator

6.2.3 .map in JSX

If you want to create a list of JSX elements, then .map() is often your best bet. It can look odd at first:

```
const strings = ['Home', 'Shop', 'About Me'];
const listItems = strings.map(string => {string});
{listItems}
```

6.2.4 Keys in JSX

A key is a JSX attribute. The attribute's name is key. The attribute's value should be something unique, similar to an id attribute

```
const people = ['Rowe', 'Prevost', 'Gare'];
const peopleLis = people.map((person, i) =>
   // expression goes here:
   key={'person_' + i}>{person}
);
```

6.3 The component

1. React applications are made out of *components*. A component is a small, reusable chunk of code that is responsible for one job. That job is often to render some HTML.

```
import React from 'react';
import ReactDOM from 'react-dom';

class MyComponentClass extends React.Component {
  render() {
    return <h1>Hello world</h1>;
  }
};

ReactDOM.render(
  <MyComponentClass />,
  document.getElementById('app')
);
```

- 2. For now, just know that you get the React library via import React from 'react';
- 3. To clarify: the DOM is *used* in React applications, but it isn't *part* of React import ReactDOM from 'react-dom';
- 4. By subclassing React.Component, you create a new component class. This is not a component! A component class is more like a factory that produces components. When you start making components, each one will come from a component class

- 5. The Render Function: All you know so far is that its name is render, it needs a return statement for some reason, and you have to include it in the body of your component class declaration
- 6. Create a Component Instance:

```
<MyComponentClass />
```

7. Render A Component: <MyComponentClass /> will call its render method, which will return the JSX element <h1>Hello world</h1>. ReactDOM.render() will then take that resulting JSX element, and add it to the virtual DOM. This will make "Hello world" appear on the screen.

6.4 Components and advanced JSX

```
6.4.1 Put Logic in a Render Function
```

```
class Random extends React.Component {
  render() {
    const n = Math.floor(Math.random() * 10 + 1);
    return <h1>The number is {n}!</h1>;
  }
}
     Use this in a Component
6.4.2
class IceCreamGuy extends React.Component {
  get food() {
    return 'ice cream';
  }
  render() {
    return <h1>I like {this.food}.</h1>;
  }
}
```

6.4.3 Use an Event Listener in a Component

```
render() {
```

Recall that an event handler is a function that gets called in response to an event. In the above example, the event handler is myFunc().

In React, you define event handlers (functions) as methods on a component class. Like this:

```
class MyClass extends React.Component {
   myFunc() {
     alert('Stop it. Stop hovering.');
   }

  render() {
     return (
        <div onHover={this.myFunc}>
        </div>
    );
  }
}
```

Almost all functions that you define in React will be defined in this way, as methods in a class

6.5 Components render other components

6.5.1 A Component in a Render Function

1. When you use named exports, you always need to wrap your imported names in curly braces, such as:

```
import { faveManifestos, alsoRan } from './Manifestos';
```

2. To import a variable, you can use an import statement:

```
import { NavBar } from './NavBar.js';
you can omit the .js extension
```

3. Render methods can also return another kind of JSX: component instances

```
class OMG extends React.Component {
  render() {
    return <h1>Whooaa!</h1>;
  }
}
class Crazy extends React.Component {
  render() {
    return <OMG />;
  }
}
```

In the above example, Crazy's render method returns an instance of the OMG component class. You could say that Crazy renders an <OMG />

6.6 this.props

}

Information that gets passed from one component to another is known as "props."

6.6.1 Access a Component's props

```
}
```

```
ReactDOM.render(<PropsDisplayer />, document.getElementById('app'));
```

6.6.2 Pass 'props' to a Component

If you want to pass information that isn't a string, then wrap that information in curly braces

```
<Greeting myInfo={["top", "secret", "lol"]} />
<Greeting name="Frarthur" town="Flundon" age={2} haunted={false} />
6.6.3 Render a Component's props

class Greeting extends React.Component {
   render() {
     return <h1>Hi there, {this.props.firstName}!</h1>;
   }
}

ReactDOM.render(
   <Greeting firstName='Joshua' />,
   document.getElementById('app')
);
```

6.6.4 Pass props From Component To Component

A curmudgeonly clarification about grammar: You may have noticed some loose usage of the words prop and props. props is the name of the object that stores passed-in information. this.props refers to that storage object. At the same time, each piece of passed-in information is called a prop. This means that props could refer to two pieces of passed-in information, or it could refer to the object that stores those pieces of information

Greeting.js

```
import React from 'react';
export class Greeting extends React.Component {
```

```
render() {
    return <h1>Hi there, {this.props.name}!</h1>;
  }
}
   App.js
import React from 'react';
import ReactDOM from 'react-dom';
import {Greeting} from './Greeting';
class App extends React.Component {
  render() {
    return (
      <div>
        <h1>
          Hullo and, "Welcome to The Newzz," "On Line!"
        </h1>
        <Greeting name="Joshua" />
        <article>
          Latest newzz: where is my phone?
        </article>
      </div>
    );
  }
}
ReactDOM.render(
 <App />,
 document.getElementById('app')
);
6.6.5 Receive an Event Handler as a prop
```

Button.js

```
import React from 'react';
export class Button extends React.Component {
  render() {
    return (
      <button onClick={this.props.onClick}>
        Click me!
      </button>
    );
  }
}
    Talker.js
import React from 'react';
import ReactDOM from 'react-dom';
import { Button } from './Button';
class Talker extends React.Component {
  handleClick() {
    let speech = '';
    for (let i = 0; i < 10000; i++) {
      speech += 'blah ';
    }
    alert(speech);
  }
  render() {
    return <Button onClick={this.handleClick} />;
  }
}
ReactDOM.render(
  <Talker />,
  document.getElementById('app')
```

);

Great! You just passed a function from <Talker /> to <Button />. <Talker /> is the *parent* component class.

Name confusion demystify: <Button /> is not an HTML-like JSX element; it's a component instance. Names like onClick only create event listeners if they're used on HTML-like JSX elements. Otherwise, they're just ordinary prop names.

```
6.6.6
     this.props.children
import { LilButton } from './LilButton';
class BigButton extends React.Component {
  render() {
    console.log(this.props.children);
    return <button>Yo I am big</button>;
  }
}
// Example 1
<BigButton>
  I am a child of BigButton.
</BigButton>
// Example 2
<BigButton>
  <LilButton />
</BigButton>
// Example 3
<BigButton />
```

In Example 1, <BigButton>'s this.props.children would equal the text, "I am a child of BigButton."

In Example 2, <BigButton>'s this.props.children would equal a <LilButton /> component.

In Example 3, <BigButton>'s this.props.children would equal undefined.

If a component has more than one child between its JSX tags, then this.props.children will return those children in an array. However, if a component has only one child, then this.props.children will return the single child, not wrapped in an array.

6.6.7 defaultProps

6.7 this.state

Dynamic information is information that can change. There are two ways for a component to get dynamic information: props and state. Besides props and state, every value used in a component should always stay exactly the same

6.7.1 Setting Initial State

To make a component have state, give the component a state property. This property should be declared inside of a constructor method, like this

```
class Example extends React.Component {
  constructor(props) {
    super(props);
    this.state = { mood: 'decent' };
  }

  render() {
    return <div></div>;
  }
}
```

<Example />

this.state should be equal to an object, like in the example above. This object represents the initial "state" of any component instance

6.7.2 Update state with this.setState

this.setState() takes two arguments: an object that will update the component's state, and a callback. You basically never need the callback (the callback is executed after render() function)

6.7.3 Call this setState from Another Function

```
class Mood extends React.Component {
  constructor(props) {
    super(props);
    this.state = { mood: 'good' };
    this.toggleMood = this.toggleMood.bind(this);
  }
  toggleMood() {
```

in React, whenever you define an event handler that uses this, you need to add this.methodName = this.methodName.bind(this) to your constructor function.

Any time that you call this.setState(), this.setState() AUTOMATICALLY calls .render() as soon as the state has changed.

Think of this.setState() as actually being two things: this.setState(), immediately followed by .render(). Set breakpoint in render() method in order to inspect the changes made by this.setState() in chrome

That is why you can't call this.setState() from inside of the .render() method! this.setState() automatically calls .render(). If .render() calls this.setState(), then an infinite loop is created

6.8 Child Components Update Their Parents' state

See javascript.pdf

6.9 Child Components Update Their Siblings' props

See codecademy, this pattern occurs in React all the time!

6.10 A controlled component example

ReactDOM.render(

```
class NameForm extends React.Component {
  constructor(props) {
    super(props);
    this.state = {value: ''};
    this.handleChange = this.handleChange.bind(this);
    this.handleSubmit = this.handleSubmit.bind(this);
  }
 handleChange(event) {
    this.setState({value: event.target.value});
  }
  handleSubmit(event) {
    alert('A name was submitted: ' + this.state.value);
    event.preventDefault();
  }
  render() {
    return (
      <form onSubmit={this.handleSubmit}>
        <label>
          Name:
          <input type="text" value={this.state.value} onChange={this.handleC</pre>
        </label>
        <input type="submit" value="Submit" />
      </form>
    );
  }
}
```

```
<NameForm />,
  document.getElementById('root')
);
```

6.11 Advanced React Techniques

6.11.1 React styles

In regular JavaScript, style names are written in hyphenated-lowercase:

```
const styles = {
  'margin-top': "20px",
  'background-color': "green"
};
```

In React, those same names are instead written in camelCase:

```
const styles = {
  marginTop: 20,
  backgroundColor: "green"
};
```

This has zero effect on style property values, only on style property names.

In React, if you write a style value as a number (meaning no quotation marks), then the unit "px" is assumed. The exception is lineHeight attribute, because it accepts number and length at the same time

If you want to use units other than "px," you can use a string: { fontSize: "2em" }

6.11.2 Another React pattern

A presentational component will always get rendered by a container component When you separate a container component from a presentational component, the *presentational* component will always end up like this: one render() function, and no other properties

```
import React from 'react';
export class GuineaPigs extends React.Component {
  render() {
```

If you have a component class with nothing but a render function, then you can rewrite that component class in a very different way. Instead of using React.Component, you can write it as JavaScript function! A component class written as a function is called a stateless functional component

See javascript.pdf for an example

```
6.11.3 propTypes
import React from 'react';

export class MessageDisplayer extends React.Component {
  render() {
    return <h1>{this.props.message}</h1>;
  }

// This propTypes object should have
// one property for each expected prop:
MessageDisplayer.propTypes = {
  message: React.PropTypes.string
};
```

Notice that the value of propTypes is an object, not a function! Each property on the propTypes object is called a propType

```
Runner.propTypes = {
```

```
React.PropTypes.string.isRequired,
  message:
             React.PropTypes.object.isRequired,
  style:
  isMetric:
             React.PropTypes.bool.isRequired,
  miles:
             React.PropTypes.number.isRequired,
  milesToKM: React.PropTypes.func.isRequired,
              React.PropTypes.array.isRequired
  races:
};
Runner has six propTypes! Look at each one. Note that bool and func are abbrevi-
ated, but all other datatypes are spelled normally.
6.11.4 PropTypes in Stateless Functional Components
import React from 'react';
export const GuineaPigs = (props) => {
  let src = props.src;
  return (
    <div>
      <h1>Cute Guinea Pigs</h1>
      <img src={src} />
    </div>
  );
}
GuineaPigs.propTypes = {
  src: React.PropTypes.string.isRequired
};
      React forms
6.11.5
      Lifecycle Methods
6.12
6.12.1
      Mounting lifecycle methods
```

componentWillMount(){} render(){} componentDidMount(){}

When a component renders for the first time, componentWillMount gets called right before render.

When a component renders for the first time, componentDidMount gets called right after the HTML from render has finished loading.

Mounting lifecycle events only execute the first time that a component renders.

If your React app uses AJAX to fetch initial data from an API, then componentDidMount is the place to make that AJAX call. More generally, componentDidMount is a good place to connect a React app to external applications, such as web APIs or JavaScript frameworks. componentDidMount is also the place to set timers using setTimeout or setInterval.

6.12.2 Updating/unmounting lifecycle methods

There are five updating lifecycle methods:

- componentWillReceiveProps
- shouldComponentUpdate
- componentWillUpdate
- render
- componentDidUpdate

Whenever a component instance updates, it automatically calls all five of these methods, in order.

componentWillUnmount is the only unmounting lifecycle method.

componentWillUnmount gets called right before a component is removed from the DOM. If a component initiates any methods that require cleanup, then componentWillUnmou is where you should put that cleanup

7 react

1. ES6 React 组件引用本地图片问题: require里只能写字符串,不能写变量

2.

7.1 react this 以下都为没在constructor里面进行this邦定

可以用普通函数的地方都可以用箭头函数。另外箭头函数在某些情况下 (分是否只传event还是有其它参数和是在class methods处还是在事件触发处) 可以替代bind

在React里面,传参要看传的只是event还是含有 (event貌似是一定有的) 其它参数 (包括其它参数为空的情形)。当含有其它参数的时候,有以下几种写法 (可以参考ylx-pc门票列表),箭头函数当用于事件触发的地方时能替代bind,当class methods使用的时候就不可以替代bind

```
1. handleOnClick(item) {
    this.props.handleOnClick(item)
  }
  或
  handleOnClick = (item) => {
    this.props.handleOnClick(item)
  }
  <div className="history" onClick={() => this.handleOnClick(item)}></div>
2. handleOnClick = (item) => {
    this.props.handleOnClick(item)
  }
  <div className="history" onClick={this.handleOnClick.bind(this, item)}><</pre>
  下面一行代码不行
  <div className="history" onClick={this.handleOnClick(item)}></div>
3. handleOnClick(item) {
    this.props.handleOnClick(item)
  }
  <div className="history" onClick={this.handleOnClick.bind(this, item)}><</pre>
4. handleOnClick = (item) \Rightarrow () \Rightarrow {
    this.props.handleOnClick(item)
```

```
<div className="history" onClick={this.handleOnClick(item)}></div>
   下面一行代码不行
   <div className="history" onClick={this.handleOnClick.bind(this, item)}><</pre>
   当只为event的时候,箭头函数当class methods使用的时候可以替代bind (见1)。
但是当用于事件触发的地方时就不能替代bind (见2) (可以参考javascript.pdf Child
Components Update Their Parents' state in React)。可以用普通函数的地方都可以
用箭头函数 (见3)
 1. handleChange = (e) => {
     const name = e.target.value;
     this.props.onChange(name);
   } // 必须用箭头函数, 普通函数不行
   <select id="great-names" onChange={this.handleChange}></select>
 2. handleChange(e) {
     const name = e.target.value;
     this.props.onChange(name);
   }
   <select id="great-names" onChange={this.handleChange.bind(this)}></select</pre>
   下面一行代码不行
   <select id="great-names" onChange={() => this.handleChange}></select>
 3. handleChange = (e) => {
     const name = e.target.value;
     this.props.onChange(name);
   }
   <select id="great-names" onChange={this.handleChange.bind(this)}></select</pre>
   下面一行代码不行
   <select id="great-names" onChange={() => this.handleChange}></select>
```

} //called currying

```
images
                                              handleChange = () => {
                                                console.log(e)
   pages
                                                console.log('abc')
     ChildParent
                                                const name = e.target.value;
                                                this.props.onChange(name);
      JS index.js
     ▶ Flight
     ▶ Grid
                                              render() {
     ▶ Home
     ▶ Hotel
     ▶ Login
                                                      Hey my name is {this.props.name}!
     ▶ Route
     1 Ticket
                                                     <select id="great-names" onChange={() => this.handleChange}>
△ OUTLINE
                                                       <option value="Frarthur"</pre>
                                                        Frarthur
 🗸 🔩 Child
    render
                                                       <option value="Gromulus">
     handleChange
                                                        Gromulus
                                                       <option value="Thinkpiece">
                                                        Thinkpiece
```

The body of handleChange won't be executed, don't know why. 当传的是其它参数的时候 (图片中的情形), 在事件触发的地方调用class method需要加(), 否则对应的class method的body不会被执行

7.2 react styles

在项目中引用某个组件时,如果想对其添加style,则需要将那个组件包裹在div内,接着在div上加style属性,不能直接在那个组件上加style属性(但是可以找到对应的className在less文件里面加样式)

7.3 less

React + CSS Modules + LESS + Webpack 4 包含一个完整的less示例

7.4 Array map method

2. Each child in an array or iterator should have a unique "key" prop

7.5 react高阶组件 (high order component)

- 高阶组件就是接受一个组件作为参数并返回一个新组件的函数
- 高阶组件是一个函数,并不是组件
- 尽量使用代理方式的高阶组件

•

8 Vue.js

- 1. We call constantly-changing data values like this **dynamic data**
- 2. Vue allows us to store data that can be calculated using values from the data object at a separate property called computed. dynamic data based on other dynamic data is best stored as a computed property
- 3. v-bind:disabled \Rightarrow :disabled v-on:click \Rightarrow @click
- 4. The value of watch is an object containing all of the properties to watch. The keys of this object are the names of the properties to watch for changes and the values are functions to run whenever the corresponding properties change. These functions take two parameters: the new value of that property and the previous value of that property

8.1 Instance Methods

there is an options object property called methods

```
const app = new Vue({
  el: "#app",
  data: {
    hoursStudied: 300
  },
  methods: {
    resetProgress: function () {
```

```
this.hoursStudied = 0;
}
});

<button v-on:click="resetProgress">Reset Progress</button>
```

8.2 Text, Textarea, and Select Bindings

```
<input type="text" v-model="username" />
const app = new Vue({
  el: '#app',
  data: { username: 'Michael' }
});
```

Now, when this example site is loaded, the <input> will already be pre-filled with 'Michael', the starting value of username. Then, whenever the <input> is modified by the user, the username data value will automatically change to the value typed in by the user.

v-model works on all HTML form field elements. So, simple form fields such as <textarea> elements and <select> elements can be bound to data and computed properties in the exact same way: adding v-model="propertyName" to the opening tag of the elements..

8.3 Vue Forms

- Form fields can be bound to Vue data using the v-model directive how v-model is used depends on the type of field it is being added to
- Form event handlers can be added using v-on:submit and v-on:reset
- Modifiers can be used to add functionality to directives most importantly preventing page reload on form submission using v-on:submit.prevent and cleaning up form field values using .number and .trim

• Form validation can be implemented by setting the value of the disabled attribute on a <button> to the value of a computed property using v-bind

8.4 Classes

```
<span v-bind:class="{ unread: hasNotifications }">Notifications</span>
.unread {
  background-color: blue;
}

const app = new Vue({
  data: { notifications: [ ... ] },
  computed: {
   hasNotifications: function() {
     return notifications.length > 0;
  }
}
```

In this example, we are using the v-bind:class directive to dynamically add a class called unread to a "Notifications" element if the computed property hasNotifications returns true.

v-bind:class takes an object as its value — the keys of this object are class names and the values are Vue app properties that return a truthy or falsy value. If the value is truthy, the class will be added to the element — otherwise it will not be added.

9 wechat mini program

9.1 框架

- 1. 开发者需要做的只是将页面的数据、方法、生命周期函数注册到框架中
- 2. 框架的核心是一个响应的数据绑定系统
- 3. 整个小程序框架系统分为两部分: 视图层(View)和逻辑层(App Service)

10 JavaScript

10.1 js扩展运算符(spread)是三个点(...)

作用:将一个数组转为用逗号分隔的参数序列

10.2 object

- 1. There are only seven fundamental data types in JavaScript, and six of those are the primitive data types: string, number, boolean, null, undefined, and symbol. With the seventh type, objects, we open our code to more complex possibilities
- 2. Objects are *mutable* meaning we can update them after we create them!
- 3. You can delete a property from an object with the delete operator

```
const spaceship = {
   'Fuel Type': 'Turbo Fuel',
   homePlanet: 'Earth',
   mission: 'Explore the universe'
};
delete spaceship['Fuel Type'];
```

- 4. When the data stored on an object is a function we call that a method
- 5. Certain languages have privacy built-in for objects, but JavaScript does not have this feature. Rather, JavaScript developers follow naming conventions that signal to other developers how to interact with a property
- 6. typeof(): in JavaScript, the data type of null is an object. The return value of typeof() can be "string" "number" "boolean" "undefined" "object" "function"
- 7. JavaScript Types are Dynamic:

```
var x;  // Now x is undefined
x = 5;  // Now x is a Number
x = "John";  // Now x is a String
```

- 8. avoid using arrow functions when using this in a method
- 9. Property Value Shorthand:

```
factory function:
```

```
const monsterFactory = (name, age) => {
  return {
    name: name,
    age: age
  }
};
```

Imagine if we had to include more properties, that process would quickly become tedious! But we can use a destructuring technique, called *property value shorthand*, to save ourselves some keystrokes

```
const monsterFactory = (name, age) => {
  return {
    name,
    age
  }
};
```

10. Destructured Assignment

```
const vampire = {
  name: 'Dracula',
  residence: 'Transylvania',
  preferences: {
    day: 'stay inside',
    night: 'satisfy appetite'
}
```

```
const { residence } = vampire;
console.log(residence); // Prints 'Transylvania'
```

We can even use destructured assignment to grab nested properties of an object:

```
const { day } = vampire.preferences;
console.log(day); // Prints 'stay inside'
```

11. Built-in Object Methods

```
object instance methods like: .hasOwnProperty(), .valueOf()
Object class methods such as Object.assign(), Object.entries(), and
Object.keys()
```

10.2.1 Looping Through Objects

JavaScript has given us alternative solution for iterating through objects with the for...in syntax

10.3 class

- 1. Although the subclass automatically inherits the parent methods, you need to use the super keyword to set the parent properties
- 2. static methods: The .now() method is static, so you can call it directly from the class, but not from an instance of the class

```
static generateName() {
  const names = ['Angel', 'Spike', 'Buffy', 'Willow', 'Tara'];
  const randomNumber = Math.floor(Math.random()*5);
  return names[randomNumber];
}
```

3. In a constructor(), you must always call the super method before you can use the this keyword — if you do not, JavaScript will throw a reference error, it is best practice to call super on the first line of subclass constructors

- 4. When multiple classes share properties or methods, they become candidates for inheritance a tool developers use to decrease the amount of code they need to write
- 5. Notice, we also prepended our property names with underscores (_name and _behavior), which indicate these properties should not be accessed directly

10.4 Request

- 1. GET and POST requests can be created a variety of ways
- 2. Use AJAX to asynchronously request data from APIs. fetch() and async/await are new functionalities developed in ES6 (promises) and ES8 respectively
- 3. Promises are a new type of JavaScript object that represent data that will eventually be returned from a request
- 4. fetch() is a web API that can be used to create requests. fetch() will return promises
- 5. We can chain .then() methods to handle promises returned by fetch()
- 6. The .json() method converts a returned promise to a JSON object
- 7. async is a keyword that is used to create functions that will return promises
- 8. await is a keyword that is used to tell a program to continue moving through the message queue while a promise resolves
- 9. await can only be used within functions declared with async

10.5 Errors

Errors will prevent a program from executing unless it is handled

10.6 Promise

- 1. Promises are objects that represent the eventual outcome of an asynchronous operation
- 2. A Promise object can be in one of three states:

- Pending
- Fulfilled
- Rejected
- 3. We refer to a promise as settled if it is no longer pending it is either fulfilled or rejected

```
4. const prom = new Promise((resolve, reject) => {
    resolve('Yay!');
});

const handleSuccess = (resolvedValue) => {
    console.log(resolvedValue);
};

prom.then(handleSuccess); // Prints: 'Yay!'

5. Using catch() with Promises

prom
    .then((resolvedValue) => {
    console.log(resolvedValue);
})
    .then(null, (rejectionReason) => {
    console.log(rejectionReason);
});
```

Since JavaScript doesn't mind whitespace, we follow a common convention of putting each part of this chain on a new line to make it easier to read. To create even more readable code, we can use a different promise function: .catch().

```
prom
   .then((resolvedValue) => {
      console.log(resolvedValue);
   })
   .catch((rejectionReason) => {
```

```
console.log(rejectionReason);
});
```

Correct! .catch(onReject) is syntactic sugar for .then(undefined, onReject).

- 6. Chaining multiple promises see javascript.pdf for a demo
- 7. Avoiding Common Mistakes
 - Mistake 1: Nesting promises instead of chaining them.
 - Mistake 2: Forgetting to return a promise.
- 8. Using Promise.all()

To maximize efficiency we should use concurrency, multiple asynchronous operations happening together. With promises, we can do this with the function Promise.all()

9. A Promise's constructor has a single parameter, called the "executor function".

The executor function has two parameters – resolve and reject.

10.7 Async await

10.7.1 The async Keyword

The async keyword is used to write functions that handle asynchronous actions. We wrap our asynchronous logic inside a function prepended with the async keyword. Then, we invoke that function

```
async function myFunc() {
    // Function body here
};

myFunc();

we can also create async function expressions

const myFunc = async () => {
    // Function body here
};
```

```
myFunc();
```

async functions always return a promise. This means we can use traditional promise syntax, like .then() and .catch with our async functions. An async function will return in one of three ways

- If there's nothing returned from the function, it will return a promise with a resolved value of undefined
- If there's a non-promise value returned from the function, it will return a promise resolved to that value

```
async function fivePromise() {
  return 5;
}

fivePromise()
.then(resolvedValue => {
    console.log(resolvedValue);
}) // Prints 5
```

• If a promise is returned from the function, it will simply return that promise

10.7.2 The await Operator

async functions are almost always used with the additional keyword await inside the function body.

The await keyword can only be used inside an async function. await is an operator: it returns the **resolved value** of a promise. Since promises resolve in an indeterminate amount of time, await halts, or pauses, the execution of our async function until a given promise is resolved.

```
async function asyncPromAll() {
  const resultArray = await Promise.all([asyncTask1(), asyncTask2(),
  asyncTask3(), asyncTask4()]);
  for (let i = 0; i<resultArray.length; i++){</pre>
```

```
console.log(resultArray[i]);
}
```

11 CSS

11.1 Caveats

1. The unit px, if the value is 0 then you can omit the px unit, if it's not 0 then you have to add px

2.

11.2 Media Queries

•

- Rather than set breakpoints based on specific devices (too many different device screen sizes), the best practice is to resize your browser to view where the website naturally breaks based on its content. The dimensions at which the layout breaks or looks odd become your media query breakpoints. Within those breakpoints, we can adjust the CSS to make the page resize and reorganize
- The points at which media queries are set are called breakpoints. For example, if we want to target tablets that are in landscape orientation, we can create the following breakpoint:

```
@media only screen and (min-width: 768px) and (max-width: 1024px) and
(orientation: landscape) {
    /* CSS ruleset */
}
```

and (min-width: 768px) —This part of the rule is called a *media feature*, and instructs the CSS compiler to apply the CSS styles to devices with a width of 768px or larger

11.3 CSS Display and Positioning

- 即使position设置为absolute, 其宽度用百分比表示时是相对于父节点的宽度而言, 见4
- Floated elements must have a width specified
- Float works for static and relative positioned elements
- If you're simply interested in moving an element as far left or as far right as possible on the page, you can use the float property

Difference in text wraping between display: inline-block; and display: inline; see pics inline-block.png and inline.png

11.4 The box model

- All major web browsers have a default stylesheet they use in the absence of an external stylesheet. These default stylesheets are known as user agent stylesheets. In this case, the term "user agent" is a technical term for the browser
- The overflow property is set on a parent element to instruct a web browser how to render child elements. For example, if a div's overflow property is set to scroll, all children of this div will display overflowing content with a scroll bar.
- Margin collapse: Unlike horizontal margins, vertical margins do not add. Instead, the larger of the two vertical margins sets the distance between adjacent elements (apply to nested elements as well, maybe there's no nested elements at all I think there is)

```
ylx-wx-beta
index.js
import React from 'react'
import './index.less'
import SearchHeader from '../../components/SearchHeader'
export default class TicketSearch extends React.Component {
```

```
search = (e) \Rightarrow {
console.log(e.target)
}
render() {
return (
<div className="hot-search-wrap">
<SearchHeader showCity={false} onChange={this.search} />
<div className="content-wrap">
<div className="head">热门搜索</div>
<div className="locations">
<button type="button">武汉花世界·花呆萌乐园
<button type="button">东湖游船</button>
<button type="button">光谷步行街</button>
<button type="button">户部巷</button>
<button type="button">武汉胜天生态农庄</button>
<button type="button">姚家山风景区</button>
<button type="button">武汉东湖风景区</button>
<button type="button">武汉东湖磨山景区</button>
</div>
<div className="history">
<div className="head">历史搜索</div>
</div>
</div>
</div>
)
}
}
```

```
@import '../../utils/color.less';
.hot-search-wrap {
  .content-wrap {
   margin-top: 70px;
   padding: 0 15px;
    .head {
      margin: 15px 0;
    }
    button {
      display: inline-block;
      padding: 6px;
      border-radius: 5px;
      margin-right: 10px;
      margin-bottom: 6px;
      border: 1px solid blue;
    }
  }
}
```

- The padding property is often used to expand the background color and make content look less cramped
- By default, the dimensions of an HTML box are set to hold the raw contents of the box

11.5 Non-Inherited properties

To name but a few, non-inherited properties are: width, height, padding, border, margin, position, background, etc.

11.6 Learn Responsive Design

1. **Historically**, the em represented the width of a capital letter M in the typeface and size being used. That is no longer the case. Today, the em represents the size of the base font being used. For example, if the base font of a browser is 16

pixels (which is normally the default size of text in a browser), then 1 em is equal to 16 pixels. 2 ems would equal 32 pixels, and so on

- 2. A high resolution display may have a min-resolution of 150dpi
- 3. The height property is set to auto, meaning an image's height will automatically scale proportionally with the width

the last line will display images as block level elements (rather than inline-block, their default state)

```
.container {
  width: 50%;
  height: 200px;
  overflow: hidden;
}
.container img {
  max-width: 100%;
  height: auto;
  display: block;
}
```

Images or videos will shrink to the full width of their container, scale proportionally, and display partially if the image dimensions exceed container dimensions. It's worth memorizing the entire example above. It represents a very common design pattern used to scale images and videos proportionally

4. Percentages are often used to size box-model values, like width and height, padding, border, and margins. They can also be used to set positioning properties (top, bottom, left, right). When percentages are used, elements are sized relative to the dimensions of their parent element (also known as a container)

Note: Because the box model includes padding, borders, and margins, setting an element's width to 100% may cause content to overflow its parent container. While tempting, 100% should only be used when content will not have padding, border, or margin

5. Rem stands for root em. It acts similar to em, but instead of checking parent elements to size font, it checks the root element. The root element is the html tag

```
6. .splash-section {
    font-size: 18px;
}
.splash-section h1 {
    font-size: 1.5em;
}
```

Instead, a base font size (18px) is defined for all text within the splash-section element. The second CSS rule will set the font size of all h1 elements inside of splash-section relative to the base font of splash-section (18 pixels). The resulting font size of h1 elements will be 27 pixels.

11.6.1 Percentages: Padding & Margin

1. When percentages are used to set padding and margin, however, they are calculated based only on the *width* of the parent element.

For example, when a property like margin-left is set using a percentage (say 50%), the element will be moved halfway to the right in the parent container (as opposed to the child element receiving a margin half of its parent's margin)

Vertical padding and margin are also calculated based on the width of the parent

11.7 display property

Note: Setting the display property of an element only changes how the element is displayed, NOT what kind of element it is. So, an inline element with display: block; is not allowed to have other block elements inside it.

11.8 Grid layout

1. flexbox is really meant for only specific use cases, like navigation bars (navbars)

11.9 p tag

1. <figcaption>The Cosmos is all there is!</figcaption> if you don't add p tag then there will be no space before or after Cosmos

12 Node

Enter repl (read evaluate print loop): type node in command line, exit command process.exit()

13 npm (or yarn add)

1.

- 2. If you're using npm 5, you'll probably also see a package-lock.json file in your directory
- 3. Useful command npm show create-react-app version

 Get list of locally installed packages: npm list, you can find the version of a specific package by passing its name as an argument. For example, npm list grunt

 Get list of globally installed packages: npm list -g --depth 0
- 4. nvm: node version manager, to manage multiple node versions on one operating system
- 5. To update Node, the most reliable way is to download and install an updated installer package from their website (see link above). To update npm, use the following command in your terminal:

```
npm install npm@latest -g
```

14 DOM

1. document.createElement()

```
<!DOCTYPE html>
<html>
<head>
```

```
<title>||Working with elements||</title>
</head>
<body>
 <div id="div1">The text above has been created dynamically.</div>
</body>
</html>
document.body.onload = addElement;
function addElement () {
 // create a new div element
 var newDiv = document.createElement("div");
 // and give it some content
 var newContent = document.createTextNode("Hi there and greetings!");
 // newDiv.textContent = "Hi there and greetings!".
 // add the text node to the newly created div
 newDiv.appendChild(newContent);
 // add the newly created element and its content into the DOM
 var currentDiv = document.getElementById("div1");
 document.body.insertBefore(newDiv, currentDiv);
}
```

- 2. Document and window objects are the objects whose interfaces you generally use most often in DOM programming. In simple terms, the window object represents something like the browser, and the document object is the root of the document itself. Element inherits from the generic Node interface, and together these two interfaces provide many of the methods and properties you use on individual elements
- 3. That is to say, it's written in JavaScript, but it uses the DOM to access the document and its elements

15 cmd

1.

- 2. git log output encoding issues on Windows 10 command prompt
- 3. Windows clear screen commands:

```
cls (clear screen) Press Esc key Ctrl + c
```

16 中文笔记

•

• 变量提升: JS会在词法分析阶段, 把变量的声明语句提升到作用域的顶部

17 命名规范 Name convention

• 线路首页: Route or RouteHome

•

•

18 Abbr

block	块级	inline	内联	lexical	词法作用域
closure	闭包	render	渲染	container	容器
content	内容	form	表单	canvas	画布
component	组件	margin	外边距	style	样式
callback	回调	revert	回滚	collapse	折叠
template string 模板字符串			logical operators 逻辑运算符		
object destructure 对象解构			array destructure 数组解构		
logical operands: true false			SoC: Separation of Concerns		

POSIX: portable operating system interface for unix

umd: universal module definition

XSS attack: cross-site scripting attack