

Vue Developer Interview

第一题

阅读代码并回答以下问题:

1. `button.update({ active: true, disabled: false })`的结果是什么? 为什么?

```
class Button {
  constructor(opt = {}) {
    opt = opt || {}
    this.status = {
      active: typeof opt.active === 'boolean' ? opt.active : true,
      disabled: typeof opt.disabled === 'boolean' ? opt.disabled : true
    }
    this.rules = opt.rules || []
  }

  static init(layout) {
    const instance = new this(layout)
    return instance.isValid ? instance : null
  }

  get isValid() {
    return !!this
  }

  getValidation({ data }) {
    Object.keys(this.status).forEach((k) => {
      const rule = this.rules.find((r) => r.key === k)?.value
      this.status[k] = getValidation({ rule, data }) ? data[k] :
this.status[k]
    })
    return this
  }

  update(data = {}) {
    try {
      this.getValidation({ data })
      return this
    } catch (err) {
      throw err
    }
  }
}
```

```
function getValidation({ rule, data }) {
  if (!rule) {
    return false
  }
  const { key = '', value } = rule
  const [valueAttribute] = Object.keys(value || {})
  const rowValue = data[key]

  switch (valueAttribute) {
    case '$and': {
      const arr = value['$and']
      return arr.reduce((acc, item) => (acc && getValidation({ rule: item, data })), true)
    }
    case '$or': {
      const arr = value['$or']
      return arr.reduce((acc, item) => (acc || getValidation({ rule: item, data })), false)
    }
    case '$empty': {
      return !rowValue === !!value['$empty']
    }
    case '$eq': {
      return rowValue === value['$eq']
    }
    default:
      return false
  }
}
```

```
const button = Button.init({
  active: false,
  disabled: true,
  rules: [
    {
      key: 'active',
      value: {
        key: '',
        value: {
          $and: [
            {
              key: 'errors',
              value: {
                $empty: true
              }
            },
            {
              key: 'disabled',
              value: {
```


数据结构 Data Structure

购物车数据为本地数据，不必从网上撷取。

```
[
  { id: 1, name: "Chicken Wing", category: "Food", qty: 3, price: 10 },
  { id: 2, name: "Pizza", category: "Food", qty: 1, price: 50 },
  { id: 3, name: "Hamburger", category: "Food", qty: 1, price: 12 },
  { id: 4, name: "Coca Cola", category: "Drink", qty: 2, price: 5 },
  { id: 5, name: "Orange Juice", category: "Drink", qty: 1, price: 15 },
  { id: 6, name: "Potato Chips", category: "Snack", qty: 1, price: 8 },
]
```

评分准则

- SFC组件设计
- 编码整洁
- 外观

加分项

- 组件化，模块化代码（e.g List.vue, Button.vue）
- 使用Vue的API计算商品总价，ES6的新规范新API处理数组等

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