```
link null title: 珠峰架构师成长计划 description: null keywords null author: null date: null publisher: 珠峰架构师成长计划 stats: paragraph=73 sentences=132, words=1196
```

1. react

1.1 index.js

src\index.js

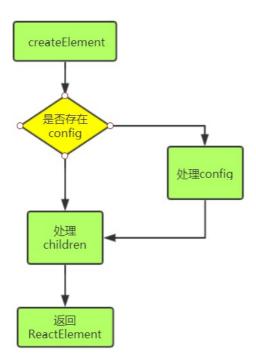
```
import React, { Component } from 'react';
import ReactDOM from 'react-dom';
import ReactDOM from 'reactActChildren';

class Child extends Component {
    render() {
        console.log('this.props.children', this.props.children);
        const mappedChildren = mapChildren(this.props.children);
        return (mappedChildren', mappedChildren)
    }
}

class App extends Component {
    render() {
        childl
        childl
        childl
        childl
        childs,
        childs,
```

1.2 react\ReactElement.js

react\ReactElement.js



```
import ReactCurrentOwner from './ReactCurrentOwner';

const RESERVED_PROPS = {
    key: true,
    ref: true,
    _self: true
```

```
function hasValidRef(config) {
    return config.ref !== undefined;
function hasValidKey(config) {
    return config.key !== undefined;
export function createElement(type, config, children) {
     const props = {};
    let key = null;
let ref = null;
    let self = null;
     let source = null;
     if (config != null) {
           if (hasValidRef(config)) {
                ref = config.ref;
          if (hasValidKey(config)) {
   key = '' + config.key;
          self = config.__self === undefined ? null : config.__self;
source = config.__source === undefined ? null : config.__source;
           for (propName in config) {
               if (!RESERVED_PROPS.hasOwnProperty(propName)) {
   props[propName] = config[propName];
}
    }
     const childrenLength = arguments.length - 2;
    if (childrenLength === 1) {
   props.children = children;
     } else if (childrenLength > 1) {
          const childArray = Array(childrenLength);
for (let i = 0; i < childrenLength; i++) {
   childArray[i] = arguments[i + 2];</pre>
          props.children = childArray;
    if (type %6 type.defaultProps) {
   const defaultProps = type.defaultProps;
   for (propName in defaultProps) {
      if (props[propName] == undefined) {
          props[propName] = defaultProps[propName];
      }
}
     return ReactElement (
          type,
          key,
ref,
          self,
           source,
          ReactCurrentOwner.current,
         props,
  onst ReactElement = function (type, key, ref, self, source, owner, props) {
    const element = {
          $typeof: REACT_ELEMENT_TYPE,
         type: type,
          key: key,
ref: ref,
          props: props,
         _owner: owner,
    return element;
 export function isValidElement(object) {
    return (
         typeof object === 'object' &&
object !== null &&
         object.$typeof === REACT_ELEMENT_TYPE
 export function cloneAndReplaceKey(oldElement, newKey) {
   const newElement = ReactElement(
          oldElement.type,
           newKey,
          oldElement.ref.
          oldElement._self,
oldElement._source,
oldElement._owner,
          oldElement.props,
     return newElement;
```

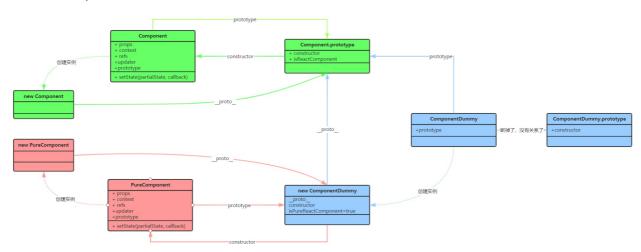
1.3 react\ReactCurrentOwner.js

react\ReactCurrentOwner.js

```
const ReactCurrentOwner = {
    current: null
};
export default ReactCurrentOwner;
```

1.4 react\ReactBaseClasses.js

src\react\ReactBaseClasses.js



```
const emptyObject = {};

function Component(props, context, updater) {
    this.props = props;
    this.updater = updater;
    this.updater = updater;
}

component.prototype.setState = function (partialState, callback) {
    this.updater.enqueueSetState(this, partialState, callback, 'setState');
};

component.prototype.isReactComponent = {};

function ComponentDummy() {
    componentDummy.prototype = Component.prototype;

function PureComponent(props, context, updater) {
    this.refs = emptyObject;
    this.refs = emptyObject;
    this.refs = context;
    this.refs = context;
    this.refs = emptyObject;
    this.updater = updater;
}

const pureComponentPrototype = (PureComponent.prototype = new ComponentDummy());
pureComponentPrototype.constructor = PureComponent.

Object.assign(pureComponentPrototype, Component.prototype);
pureComponentPrototype.sigPureReactComponent = true;

export { Component, PureComponent };
```

src\shared\ReactSymbols.js

```
const hasSymbol = typeof Symbol === 'function' && Symbol.for;
export const REACT_ELEMENT_TYPE = hasSymbol
   ? Symbol.for('react.element')
   : 0xeac7;
export const REACT_FORWARD_REF_TYPE = hasSymbol
   ? Symbol.for('react.forward_ref')
   : 0xead0;
```

1.6 react\ReactChildren.js

src\react\ReactChildren.js

```
import { isValidElement, cloneAndReplaceKey } from './ReactElement';
import { REACT_ELEMENT_TYPE } from '../shared/ReactSymbols';
const POOL_SIZE = 10;
const traverseContextFool = [];
const SUBSEPARATOR = '.';
const SUBSEPARATOR = '.';
const suserProvidedKeyEscapeRegex = /\/+/g;
function escapeUserProvidedKey(text) {
    return ('' + text).replace(userProvidedKeyEscapeRegex, '{{content}}amp;/');
}
function escape(key) {
    const escapeRegex = /[=:]/g;
    const escapeRegex = /[=:]/g;
```

```
'=': '=0',
        ':': '=2',
   const escapedString = ('' + key).replace(escapeRegex, function (match) {
    return escaperLookup[match];
    return '{{content}}#x27; + escapedString;
function getPooledTraverseContext(
    mapResult,
    keyPrefix,
    mapFunction,
   if (traverseContextPool.length) {
        const traverseContext = traverseContextPool.pop();
traverseContext.result = mapResult;
traverseContext.keyPrefix = keyPrefix;
        traverseContext.func = mapFunction;
        traverseContext.context = mapContext;
        traverseContext.count = 0;
        return traverseContext;
    } else {
        return {
             result: mapResult,
             keyPrefix: keyPrefix,
             func: mapFunction,
             context: mapContext,
            count: 0,
       };
function mapChildren(children, func, context) {
    if (children == null) {
        return children;
    const result = [];
    mapIntoWithKeyPrefixInternal(children, result, null, func, context);
    return result;
  nction mapIntoWithKeyPrefixInternal(children, array, prefix, func, context) {
    let escapedPrefix = '';
    if (prefix != null) {
        escapedPrefix = escapeUserProvidedKey(prefix) + '/';
    const traverseContext = getPooledTraverseContext(
        array,
        escapedPrefix,
        func,
        context,
    traverseAllChildren(children, mapSingleChildIntoContext, traverseContext);
    releaseTraverseContext(traverseContext);
function mapSingleChildIntoContext(bookKeeping, child, childKey) {
   const { result, keyPrefix, func, context } = bookKeeping;
    let mappedChild = func.call(context, child, bookKeeping.count++);
    if (Array.isArray(mappedChild)) {
    \label{local_mappedChild} $$ mapIntoWithKeyPrefixInternal (mappedChild, result, childKey, c => c); $$ else if (mappedChild != null) {} $$
        if (isValidElement(mappedChild)) {
   mappedChild = cloneAndReplaceKey(
                 mappedChild,
keyPrefix +
                 childKey,
            );
        result.push (mappedChild);
function releaseTraverseContext(traverseContext) {
    traverseContext.result = null;
    traverseContext.keyPrefix = null;
    traverseContext.func = null;
    traverseContext.context = null;
   traverseContext.count = 0;
if (traverseContextPool.length < POOL_SIZE) {</pre>
        traverseContextPool.push(traverseContext);
function traverseAllChildren(children, callback, traverseContext) {
   if (children == null)
        return 0;
    return traverseAllChildrenImpl(children, '', callback, traverseContext);
function getComponentKey(component, index) {
        typeof component === 'object' &&
        component !== null &&
        component.key != null
```

```
return escape(component.key);
     return index.toString(36);
function traverseAllChildrenImpl(
    nameSoFar,
     callback,
    traverseContext.
    const type = typeof children;
    if (type === 'undefined' || type === 'boolean') {
    cype === 'undefine children = null;
}
    let invokeCallback = false;
     if (children === null) {
          invokeCallback = true;
     } else {
         switch (type) {
    case 'string':
    case 'number':
               case 'number':
   invokeCallback = true;
   break;
case 'object':
   switch (children.Stypeof) {
      case REACT_ELEMENT_TYPE:
         invokeCallback = true;
}
    }
if (invokeCallback) {
          callback(
                traverseContext,
                children,
                nameSoFar === '' ? SEPARATOR + getComponentKey(children, 0) : nameSoFar,
          return 1;
    let child;
    let nextName;
let subtreeCount = 0;
const nextNamePrefix =
   nameSoFar === '' ? SEPARATOR : nameSoFar + SUBSEPARATOR;
    if (Array.isArray(children)) {
          for (let i = 0; i < children.length; i++) {
    child = children[i];</pre>
               nextName = nextNamePrefix + getComponentKey(child, i);
subtreeCount += traverseAllChildrenImpl(
                    child,
nextName,
                    callback,
traverseContext,
              );
         }
  xport {
    mapChildren
```