link null
title: 珠峰架构卵成长计划
description: babel.config.js
keywords: null
author: null
date: null
publisher: 珠峰架构卵成长计划
stats paragraph=137 sentences=415, words=2351

# 0.AntDesign

- 框架 react
- 测试 jest+enzyme
- 检查 eslint
- 打包 webpack+gulp
- 文档 bisheng
- 钩子 husky
- .husky git钩子
- \_site 网站
- components 组件
- docs 文档
- dist 打包生成的文件
- es ES6
- lib ES5
- scripts 脚本
- site 组件预览项目
- tests测试
- typings 类型定义
- webpack配置
- storybook文档和组件编写
- 单元测试+E2E快照测试+代码覆盖率
- eslint+prettier+editorconfig
- git hook
- 编译发布
- 持续集成

# 1.创建项目

mkdir ant cd ant npm init -y

```
"name": "@zhangry/ant",
"version": "1.0.0",
"description": "React组件的企业级UI设计",
"main": "lib/index.js",
"scripts": {
   "build": "webpack"
"publishConfig": {
   "access": "public",
   "registry": "http://registry.npmjs.org"
"homepage": "https://zhangrenyang.github.io/ant",
"repository": {
   "type": "git",
  "url": "git+https://github.com/zhangrenyang/ant.git"
 "keywords": [
  "ant",
"component"
   "components",
   "design",
   "framework".
  "frontend",
   "react",
  "react-component",
  "ui"
"author": "zhangrenyang",
"dependencies": {
    "react": "^17.0.2"
   "react-dom": "^17.0.2"
"peerDependencies": {
    "react": "^17.0.2",
    "react-dom": "^17.0.2"
"devDependencies": {
  "@typescript-eslint/parser": "^4.31.1",
   "and": "^0.0.3",
"eslint": "^7.32.0",
   "eslint-config-airbnb": "^18.2.1",
   "eslint-plugin-import": "^2.24.2",
"eslint-plugin-jsx-ally": "^6.4.1",
"eslint-plugin-react": "^7.25.2",
   "eslint-plugin-react-hooks": "^4.2.0",
"husky": "^7.0.2",
"@babel/core": "^7.15.5",
   "@babel/plugin-transform-runtime": "^7.15.0",
"@babel/plugin-transform-typescript": "^7.15.4",
   "@babel/preset-env": "^7.15.6",
"@babel/preset-react": "^7.14.5",
"@commitlint/cli": "^13.1.0",
   "@commitlint/config-conventional": "^13.1.0",
  "@storybook/addon-essentials": "^6.3.8",
"@storybook/react": "^6.3.8",
"@types/enzyme": "^3.10.9",
"@types/jest": "^27.0.1",
   "@types/jest-environment-puppeteer": "^4.4.1",
"@types/jest-image-snapshot": "^4.3.1",
  "etypes/pst-image-snapshot":
"etypes/node": "^16.9.2",
"etypes/puppeteer": "^5.4.4",
"etypes/react": "^17.0.21",
"etypes/react-dom": "^17.0.9",
  "etypes/react-oom": "17.0.9",
"ewojtekmaj/enzyme-adapter-react-17": "^0.6.3",
"autoprefixer": "^10.3.4",
"babel-loader": "^8.2.2",
"commitizen": "^6.2.4",
"css-loader": "^6.2.0",
"cz-customizable": "^6.3.0",
   "enzyme": "^3.11.0",
    "eslint-config-prettier": "^8.3.0",
   "eslint-plugin-prettier": "^4.0.0",
"gulp": "^4.0.2",
   "gulp-babel": "^8.0.0",
   "gulp-typescript": "^6.0.0-alpha.1",
"jest": "^27.2.0",
   "jest-environment-puppeteer": "^5.0.4",
  "jest-image-snapshot": "^4.5.1",
"jest-puppeteer": "^5.0.4",
"less": "^4.1.1",
"less-loader": "^10.0.1",
   "merge2": "^1.4.1",
"mini-css-extract-plugin": "^2.3.0",
   "postcss-loader": "^6.1.1",
"prettier": "^2.4.1",
"puppeteer": "^10.2.0",
"rimraf": "^3.0.2",
   "typescript": "^4.4.3", "webpack": "^5.53.0",
   "webpack-cli": "^4.8.0"
```

# 2.配置webpack

```
yarn add webpack webpack-cli webpack-dev-server mini-css-extract-plugin babel-loader css-loader autoprefixer postcss-loader less-loader less @babel/core @babel/preset-react @babel/preset-env @babel/runtime @babel/plugin-transform-typescript typescript @babel/plugin-transform-runtime @types/node --dev yarn add react react-dom yarn add @types/react @types/react-dom --dev
```

```
const path = require('path');
const MiniCssExtractPlugin = require('mini-css-extract-plugin');
 const cwd = process.cwd();
 module.exports = {
  mode: 'development',
  devtool: false,
entry: {
   ant: './index.js',
  output: {
    path: path.resolve('dist'),
    filename: '[name].js',
library: 'ant',
libraryTarget: 'umd',
  externals: {
    react: {
  reot: 'React',
  commonjs2: 'react',
  commonjs: 'react',
  amd: 'react',
     'react-dom': {
      root: 'ReactDOM',
commonjs2: 'react-dom',
commonjs: 'react-dom',
       amd: 'react-dom',
    },
  resolve: {
    extensions: ['.ts', '.tsx', '.js', '.jsx', '.json'],
    alias: {
      antdesign: cwd,
    },
  module: {
    rules: [
          test: /\.(j|t)sx?$/,
          exclude: /node_modules/,
loader: 'babel-loader',
          test: /\.css$/,
            MiniCssExtractPlugin.loader,
               loader: 'css-loader',
                 sourceMap: true,
               loader: 'postcss-loader',
               options: {
  postcssOptions: {
                   plugins: ['autoprefixer'],
              sourceMap: true,
            },
          1,
         test: /\.less$/,
use: [
            MiniCssExtractPlugin.loader,
               loader: 'css-loader',
               options: {
                  sourceMap: true,
               },
               loader: 'postcss-loader',
options: {
                 postcssOptions: {
   plugins: ['autoprefixer'],
                  sourceMap: true,
               },
             },
               loader: 'less-loader',
               options: {
                  lessOptions: {
                  javascriptEnabled: true,
},
               sourceMap: true,
            },
          test: /\.(png|jpg|jpeg|gif|svg) (\?v=\d+\.\d+\.\d+\?$/i, type: 'asset',
       },
  plugins: [
    new MiniCssExtractPlugin({
   filename: '[name].css',
```

```
1),
1,
);
```

# babel.config.js

.gitignore

```
*.iml
.idea/
.ipr
*.diff
 .patch
*.bak
.DS_Store
Thumbs.db
.project
 .*proj
.svn/
*.swp
 .swo
 ·.log
 .log.*
*.json.gzip
node_modules/
.buildpath
.settings
npm-debug.log
nohup.out
site
data
dist
report.html
/lib
elasticsearch-*
config/base.yaml
/.vscode/
 coverage/
varn.lock
package-lock.json
components/**/*.js
components/**/*.jsx
!components/**/__tests__/**/*.js
!components/**/__tests__/**/*.js.snap
/.history
# Docs templates
site/theme/template/Color/ColorPicker.jsx
site/theme/template/IconDisplay/*.js
site/theme/template/IconDisplay/*.jsx
site/theme/template/IconDisplay/fields.js
site/theme/template/Home/**/*.jsx
site/theme/template/nome/ ...jsx
site/theme/template/Layout/Footer.jsx
site/theme/template/Layout/Header/**/*.jsx
site/theme/template/Layout/SiteContext.jsx
site/theme/template/Content/Article.jsx
site/theme/template/Content/EditButton.jsx
site/theme/template/Resources/*.jsx
site/theme/template/Resources/**/*.jsx
site/theme/template/NotFound.jsx
scripts/previewEditor/index.html
components/version/version.tsx
# Image snapshot diff
 diff output /
 _image_snapshots__
 jest-stare
/imageSnapshots
/imageDiffSnapshots
storybook-static
sh.exe.stackdump
/snapshots
/diffSnapshots
```

```
"compilerOptions": {
    "strictNullChecks': true,
    "module": "esnext",
    "moduleResolution": "node",
    "esModuleInterop": true,
    "experimentalDecorators": true,
    "jsx": "react",
    "noUnusedParameters": true,
    "noUnusedLocals": true,
    "noImplicitAny": true,
    "target": "ess",
    "lib": ["dom", "es2017"],
    "skipLibCheck": true,
    "types": ["node"]
},
    "exclude": ["node_modules", "lib", "es"]
}
```

module.exports = require('./components');

# components\index.tsx

```
import Button from './button';
export type { ButtonProps } from './button';
export { Button };
```

```
import Button from './button';
export default Button;
export type { ButtonProps } from './button';
```

components/button/button.tsx

```
import React, { ButtonHTMLAttributes } from 'react';
interface ButtonProps extends ButtonHTMLAttributes {}
const Button: React.FC = (props) => {
   const { children } = props;
   return <button type="button">{children}button>;
};
export default Button;
export type { ButtonProps };
```

# 3.storybook

yarn add @storybook/react @storybook/addon-essentials --dev

.storybook\main.js

components\Introduction.stories.mdx

```
## Ant Design of React
antd 是基于 Ant Design 设计体系的 React UI 组件库,主要用于研发企业级中后台产品。
```

components\Install.stories.mdx

```
## 安装
使用 npm 或 yarn 安装

npm install ant --save

yarn add ant

## 浏览器引入

在浏览器引入

在浏览器中使用 script 和 link 标签直接引入文件. 并使用全局变量 ant

我们在 npm 发布包内的 antdesign/dist 目录下提供了 ant.js

## 示例

import { Button } from 'antdesign';

ReactDOM.render(按钮, mountNode);
```

 $components \\ Components \\ stories \\ mdx \\$ 

```
antd 是基于 Ant Design 设计体系的 React UI 组件库,主要用于研发企业级中后台产品。
## 通用
 - Button 按钮
  Icon 图标
Typography 排版
 - Divider 分割线
- Grid 栅格
  Layout 布局
Space 间距
## 导航
- Affix 固钉
   Breadcrumb 面包屑
  Dropdown 下拉菜单
Menu 导航菜单
  Pagination 分页
PageHeader 页头
Steps 步骤条
## 数据录入
   # 数据求八
AutoComplete 自动完成
Checkbox 多选框
Cascader 级联选择
   DatePicker 日期选择框
Form 表单
   InputNumber 数字输入框
   Input 输入框
   Mentions 提及
Rate 评分
 - Rate 评分
- Radio 单选框
- Switch 开关
- Sulder 滑动输入条
- Select 选择器
- TreeSelect 树选择
- Transfer 穿梭框
- TimePicker 时间选择框
- Upload 上传
## 数据展示
- Avatar 头像
- Badge 徽标数
   Comment 评论
Collapse 折叠面板
Carousel 走马灯
   Card 卡片
Calendar 日历
  Calendar 日历
Descriptions 描述列表
Empty 空状态
Image 图片
List 列表
   Popover 气泡卡片
Statistic 统计数值
   Tree 树形控件
Tooltip 文字提示
Timeline 时间轴
Tag 标签
   Tabs 标签页
Table 表格
 # 反馈
  # 反馈
Alert 警告提示
Drawer 抽屉
Modal 对话框
Message 全局提示
Notification 通知提醒框
Progress 进度条
Popconfirm 气泡确认框
Result 结果
   Spin 加载中
Skeleton 骨架屏
## 其他
  · Anchor 锚点
   BackTop 回到顶部
   ConfigProvider 全局化配置
```

### components\button\button.stories.tsx

```
"scripts": {
    "build": "webpack",

+ "storybook": "start-storybook -p 6006",

+ "build-storybook": "build-storybook"
},
```

# 4.测试

```
yarn add jest @types/jest @wojtekmaj/enzyme-adapter-react-17 puppeteer @types/puppeteer jest-environment-puppeteer @types/jest-environment-puppeteer jest-puppeteer jest-image-snapshot @types/jest-image-snapshot --dev
yarn add enzyme @types/enzyme --dev
```

#### tests\setup.js

```
const React = require('react');
const Enzyme = require('enzyme');

const Adapter = require('@wojtekmaj/enzyme-adapter-react-17')
Enzyme.configure({ adapter: new Adapter() });
```

#### tests\index.html

#### unit.jest.js

```
module.exports = {
  verbose: true,
  testEnvironment: 'jsdom',
  setupFiles: ['.'tests/setup.js'],
  testMatch: ['**/unit/**/*.(spec|test).(js|ts|jsx|tsx)'],
  collectCoverage: true,
  collectCoverageFrom: [
    'components/**/*.(js|ts|jsx|tsx)',
    '!components/**/*.stories.(js|ts|jsx|tsx)',
    '!components/**/*.(spec|test).(js|ts|jsx|tsx)',
    ';components/**/*.(spec|test).(js|ts|jsx|tsx)',
    ],
};
```

### e2e.jest.js

```
module.exports = {
  verbose: true,
  testEnvironment: 'jest-environment-puppeteer',
  setupfiles: ['.'tests/setup.js'],
  preset: 'jest-puppeteer',
  testMatch: ['**/e2e/**/*.(spec|test).(j|t)sx'],
};
```

#### components\button\unit\index.test.tsx

```
import React from 'react';
import { mount } from 'enzyme';
import Button from '...';

describe('Button', () => {
   it('mount correctly', () => {
      expect(() => mount(<Button>FollowButton>)).not.toThrow();
   ));
});
```

### components\button\e2e\snapshot.spec.tsx

```
import React from 'react';
import ReactDOMServer from 'react-dom/server';
import { configureToMatchImageSnapshot } from 'jest-image-snapshot';
import Button from '..';
import 'jest-environment-puppeteer';
const toMatchSnapshot = configureToMatchImageSnapshot({
   customSnapshotsDir: `${process.cwd()}/snapshots`,
  customDiffDir: `${process.cwd()}/diffSnapshots`,
 expect.extend({ toMatchSnapshot });
describe('Button snapshot', () => {
  it('screenshot should correct', async () => {
   await jestPuppeteer.resetPage();
    await page.goto('file://${process.cwd()}/tests/index.html');
const html = ReactDOMServer.renderToString(<Button>按钮Button>);
    await page.evaluate((innerHTML:string) => {
      document.querySelector('#root')!.innerHTML = innerHTML;
    }, html);
    const screenshot = await page.screenshot();
    expect(screenshot).toMatchSnapshot();
  });
```

```
module.exports = {
  launch: {
    dumpio: true,
    headless: process.env.HEADLESS !== 'false',
  },
  browserContext: 'default',
};
```

#### package.json

```
"scripts": {
    "build": "webpack",
    "storybook": "start-storybook -p 6006",
    "build-storybook": "build-storybook",
    "test:unit": "jest --config unit.jest.js",
    "test:e2e": "jest --config 2e2.jest.js",
    "test": "npm run test:unit && npm run test:e2e"
    },
}
```

#### 5.eslint

yarn add @typescript-eslint/parser eslint eslint-plugin-import eslint-plugin-react eslint-plugin-react-hooks and eslint-plugin-jsx-ally eslint-config-airbnb -dev

#### .eslintrc.js

```
module.exports = {
    parser: '@typescript-eslint/parser',
    extends: ['airbnb'],
    env: {
        browser: true,
        node: true,
        jasmine: true,
        jest: true,
        es6: true,
        },
    rules: {
        'import/extensions': 0,
        'import/no-unresolved': 0,
        'react/jsx-filename-extension': 0,

        'no-use-before-define': 0,
        'import/no-named-default-export': 0,
        'ino-param-reassign': 0,
        'func-names': 0,
    }
};
```

# .eslintignore

```
componentsunit*.stories.*
lib
es
umd
dist
.storybook
gulpfile.js
```

## package.json

```
"scripts": {
   "build": "webpack",
   "storybook": "start-storybook -p 6006",
   "build-storybook": "build-storybook",
   "test:unit": "jest --config unit.jest.js",
   "testre2e": "jest --config e2e.jest.js",
   "testre2e": "piest --config e2e.jest.js",
   "testre: "npm run test:unit && npm run test:e2e",
   "lint": "eslint --ext .js,.jsx,.ts,.tsx components",
   "lint:fix": "eslint --fix --ext .js,.jsx,.ts,.tsx components"
}
```

# 6.prettier

yarn add prettier eslint-config-prettier eslint-plugin-prettier --dev

.eslintrc.js

```
odule.exports = {
parser: '@typescript-eslint/parser',
extends: ['airbnb', 'prettier'],
env: {
  browser: true,
  node: true,
  jasmine: true,
jest: true,
  es6: true,
plugins: ['prettier'],
rules: {
  'prettier/prettier': ['error', { endOfLine: 'auto' }], 'import/extensions': 0,
  \verb|'import/no-unresolved': 0,\\
  'react/jsx-filename-extension': 0,
  // https://github.com/typescript-eslint/typescript-eslint/issues/2540#issuecomment-692866111
'no-use-before-define': 0,
  'import/prefer-default-export': 0,
'import/no-named-default': 0,
  'no-console': 0.
  'no-param-reassign': 0,
  'func-names': 0,
```

.prettierrc

```
"singleQuote": true
```

components\button\index.tsx

.vscode\settings.json

```
"editor.codeActionsOnSave": {
 "source.fixAll.eslint": true
"files.autoSave": "afterDelay"
```

# 7.editorconfig

```
# top-most EditorConfig file
# Unix-style newlines with a newline ending every file
[*.{js,css}]
end_of_line = lf
insert_final_newline = true
indent_style = space
indent_size = 2
```

# 8. git hook

```
yarn add husky --dev
 npm set-script prepare "husky install"
npm run prepare
```

- pre-commit在git add提交之后,然后执行git commit时执行,脚本执行没报错就继续提交,反之就驳回提交的操作
   可以在 git commit 之前检查代码,保证所有提交到版本库中的代码都是符合规范的

npx husky add .husky/pre-commit "npx lint-staged"

```
"*.{js,ts,jsx,tsx}": "eslint"
```

yarn add committizen cz-customizable @commitlint/cli @commitlint/config-conventional --dev

npx husky add .husky/commit-msg "npx --no-install commitlint --edit \$1"

```
odule.exports = {
types: [
{ value: "feat", name: "feat:一个新特性" },
{ value: "fix", name: "fix:修复BUG" },
scopes: [{ name: "admin" }, { name: "user" }],
```

committint.config.js

```
module.exports = {
   extends: ['@commitlint/config-conventional'],
```

可以在 git push 之前执行单元测试、保证所有的提交的代码经过的单元测试

```
npx husky add .husky/pre-push "npm run test"
npm pubish
```

# 9. 编译发布

```
yarn add rimraf gulp gulp-typescript gulp-babel merge2 --dev
npm publish
cat ~/.npmrc
```

```
const gulp = require('gulp');
const path = require('path');
const rimraf = require('rimraf');
const ts = require('gulp-typescript');
const babel = require('gulp-babel');
const merge2 = require('merge2');
const { compilerOptions } = require('./tsconfig.json');
 onst tsConfig = {
  noUnusedParameters: true,
  noUnusedLocals: true.
  strictNullChecks: true,
  target: 'es6',
jsx: 'preserve',
  moduleResolution: 'node'.
  declaration: true,
  allowSyntheticDefaultImports: true,
  ...compilerOptions,
const babelConfig = require('./babel.config');
 const source = [
  'components/**/*.{js,ts,jsx,tsx}',
'!components/**/*.stories.{js,ts,jsx,tsx}',
'!components/**/e2e/*',
  '!components/**/unit/*',
const base = path.join(process.cwd(), 'components');
function getProjectPath(filePath)
  return path.join(process.cwd(), filePath);
const libDir = getProjectPath('lib');
const esDir = getProjectPath('es');
gulp.task('compile-with-es', (done) => {
  console.log('Compile to es...');
  compile(false).on('finish', done);
gulp.task('compile-with-lib', (done) => {
 console.log('Compile to js...');
compile().on('finish', done);
gulp.task('compile', gulp.parallel('compile-with-es', 'compile-with-lib'));
function compile (modules) {
  const targetDir = modules === false ? esDir : libDir;
  rimraf.sync(targetDir);
  const { js, dts } = gulp.src(source, { base }).pipe(ts(tsConfig));
  const dtsFilesStream = dts.pipe(gulp.dest(targetDir));
  let jsFilesStream = js;
  if (modules) {
    jsFilesStream = js.pipe(babel(babelConfig));
  jsFilesStream = jsFilesStream.pipe(gulp.dest(targetDir));
  return merge2([jsFilesStream, dtsFilesStream]);
```

# package.json

```
{
    "main": "lib/index.js",
    "module": "es/index.js",
    "unpkg": "dist/antd.js",
    "typings": "lib/index.d.ts",
    "files": [
    "dist",
    "es",
    "lib"
    "],
}
```

# 10. 持续集成

• <u>Travis Cl (https://www.travis-ci.com/)</u>提供的是持续集成服务(Continuous Integration,简称 Cl)。它绑定 Github 上面的项目,只要有新的代码,就会自动抓取。然后,提供一个运行环境,执行测试,完成 构建,还能部署到服务器

```
language: node_js
node_js:
- "stable"
cache:
 - node_modules
env:
 - CI=true
 - yarn config set registry https://registry.npm.taobao.org
 - yarn install
script:
 npm run build-storybooknpm version patch
deploy:
 - provider: pages
   skip_cleanup: true
   github token: $GITHUB TOKEN
    local_dir: storybook-static
   on:
     branch: master
  - provider: npm
   email: zhang_renyang@126.com
api_key: "$NPM_TOKEN"
    skip_cleanup: true
   on:
     branch: master
```