1. **Remove react-scripts Dependency**:
   * Remove the react-scripts dependency from package.json.
2. **Add SASS Support**:
   * Add SASS support by installing sass as a development dependency:

npm i --save-dev sass

1. **Install Vite and Plugins**:
   * Install vite and @vitejs/plugin-react as development dependencies:

npm install --save-dev vite @vitejs/plugin-react vite-tsconfig-paths vite-plugin-svgr  
  
Need vite-tsconfig-paths in order to tell Vite how to resolve absolute paths from the tsconfig file

1. **Update Scripts**:
   * Replace the start and build scripts in package.json:

"scripts": {

"start": "vite",

"build": "tsc && vite build"

}

1. **Create Vite Configuration**:
   * Create vite.config.js in the project root with the following code:

import { defineConfig } from 'vite';

import react from '@vitejs/plugin-react';

import viteTsconfigPaths from 'vite-tsconfig-paths';

import svgr from 'vite-plugin-svgr';

// https://vitejs.dev/config/

export default defineConfig({

plugins: [

react(),

viteTsconfigPaths(),

svgr({

include: '\*\*/\*.svg?react',

}),

],

server: { open: true, },

});

1. **Move Index HTML**:
   * Move index.html from the public folder to the project root.
2. **Change build output folder**  
    In Vite, the default production build folder name is dist, you can change this to CRA's default build folder if needed. This is useful as if your CI/CD scripts all referenced build. export default

export default defineConfig({

. . .

build: { outDir: ‘build’,},

. . .

});

1. **Update tsconfig.json**

{

"compilerOptions": {

"target": "ESNext",

"lib": ["dom", "dom.iterable", "esnext"],

"types": ["vite/client", "vite-plugin-svgr/client"],

"allowJs": false,

"skipLibCheck": false,

"esModuleInterop": false,

"allowSyntheticDefaultImports": true,

"strict": true,

"forceConsistentCasingInFileNames": true,

"noFallthroughCasesInSwitch": true,

"module": "ESNext",

"moduleResolution": "node",

"resolveJsonModule": true,

"isolatedModules": true,

"noEmit": true,

"jsx": "react-jsx"

},

"include": ["src"]  
}

1. **Update HTML References**:
   * Remove %PUBLIC\_URL% occurrences from index.html.
2. **Create vite-env.d.ts**

/// <reference types="vite/client" />

1. **Add Script Tag**:
   * Add the script tag <script type="module" src="/src/index.jsx"></script> into the body of index.html.
2. **Change File Extensions**:
   * Change the extension of .js files to .jsx if they contain JSX syntax.
3. **Update Environment Variables**:
   * Update environment variables from REACT\_APP to VITE.
4. **Configure Absolute Paths**:
   * Add aliases for absolute paths in vite.config.js if needed.
5. **Install Dependencies**:
   * Install dependencies using yarn install or npm install.
6. **Start Application**:
   * Start the application using yarn start or npm start.

**Configs for keeping jest and adding vitest  
  
Jest:**

* **Install Vitest:**
  + **Add Vitest as a development dependency:  
    Bash**

**yarn add vitest --dev**

* **Create Vite Configuration:**
  + **Create a new file vite.config.ts with the following content:  
    typescript**

**import { fileURLToPath, URL } from 'url';**

**import { defineConfig } from 'vitest/config';**

**export default defineConfig({**

**test: {**

**setupFiles: './vitest-setup.ts',**

**environment: 'jsdom',**

**include: ['tests-vitest/\*\*/\*.{test,spec}.?(c|m)[jt]s?(x)'],**

**coverage: {**

**reporter: ['lcov', 'text'],**

**},**

**outputFile: 'coverage/sonar-report.xml',**

**},**

**resolve: {**

**alias: [{ find: '@/', replacement: fileURLToPath(new URL('./', import.meta.url)) }],**

**},**

**});**

* **Create Vitest Setup File:**
  + **Create a new file vitest-setup.ts with the following content:  
    Typescript**

**import "@testing-library/jest-dom/vitest";**

* **Project Structure:**
  + **Ensure your project structure follows:  
    bash**

**web/**

**├── components/ # React components**

**├── pages/ # Using Next.js pages router**

**├── tests/ # Jest tests**

**└── tests-vitest/ # Vitest tests**

* **Update Package.json Scripts:**
  + **Add a new command to run Vitest tests:  
    json**

**"scripts": {**

**...**

**"test": "jest",**

**"test:vitest": "vitest",**

**...**

**}**

* **Jest Configuration Tweaks:**
  + **Update Jest configuration in jest.config.js to search tests only in the tests/ folder:  
    Javascript  
      
    module.exports = {  
    ...**

**testMatch: ['<rootDir>/tests/\*\*/?(\*.)+(spec|test).[jt]s?(x)'],**

**...**

**}**

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