

Report Day: 7.3

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Task:

React Project Folder Structure

1. Introduction

React allows flexibility in project structure, but a well-organized folder structure:

- Boosts readability
- Simplifies debugging
- Promotes scalability
- Enables reusability and teamwork

2. Basic React Project Structure (Create React App)

When you initialize a project using `npx create-react-app my-app`, this is the default folder structure:

Key Files:

- `index.js` → Entry point, renders `<App />`.
- `App.js` → Root component.
- `public/index.html` → HTML shell for your React app.

```
my-app/  
|  
├─ public/  
|   └─ index.html  
|  
├─ src/  
|   ├─ App.css  
|   ├─ App.js  
|   ├─ index.js  
|   └─ logo.svg  
|  
├─ .gitignore  
├─ package.json  
└─ README.md
```

Best Practices

- **Group by Feature, not File Type:** Keeps related files together.
- **Keep Components Reusable:** Use a components/ folder for UI elements used across features.
- **Avoid Over-Nesting:** Don't create too many unnecessary folders.
- **Use Absolute Imports (Optional):** Configure jsconfig.json or tsconfig.json for cleaner import paths.
- **Use .env for Configuration:** Store sensitive data and API URLs securely.

Conclusion

A well-structured React project:

- Makes development faster and cleaner.
- Helps teams collaborate efficiently.
- Keeps the codebase maintainable as it grows.