

# Lab 1: React Fundamentals - Building Your First Components

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## Practical Exercises for Chapter 1 (VITE Edition)

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### Lab Overview

#### Lab Objectives

By completing this lab, you will:

- Create functional React components
- Understand JSX syntax and rules
- Work with props to pass data between components
- Compose components to build a UI
- Apply CSS styling to components
- Debug common React errors

#### Prerequisites

- Node.js installed
- VS Code or your preferred editor
- Basic JavaScript knowledge (variables, functions, arrays, objects)
- Completed reading Chapter 1

#### Setup (VITE - Modern & Fast)

```
# Create a new React app with Vite (NOT create-react-app!)
npm create vite@latest lab-1-fundamentals -- --template react

# Enter the project
cd lab-1-fundamentals

# Install dependencies
npm install
```

```
# Start the development server  
npm run dev
```

Your browser will open at <http://localhost:5173> (Vite default port).

**Important:** Notice the project structure:

- `index.html` is at ROOT level (not in `public/`)
  - `src/main.jsx` is the entry point (not `src/index.js`)
  - Component files use `.jsx` extension (e.g., `Greeting.jsx`, not `Greeting.js`)
- 

## Part 1: JSX and Components Basics

### 🎓 Learning Recap

Before starting, remember:

- Components are JavaScript functions that return JSX
  - JSX looks like HTML but is JavaScript
  - JSX gets compiled to `React.createElement()` calls
  - Components must return a single root element
  - **Use `.jsx` extension for files that contain React components!**
- 

### Exercise 1.1: Your First Component

**Task:** Create a simple greeting component

#### Instructions:

1. Create a new file: `src/components/Greeting.jsx` (notice: `.jsx` not `.js`)
2. Write a component that displays:
  - A greeting message: "Welcome to React!"
  - A subtitle: "This is my first component"
  - A fun fact about React
3. This component should NOT use props yet (hardcoded text is fine)
4. Export the component
5. Import and use it in `src/App.jsx`

#### Requirements:

- Component must be a function
- Component must return JSX
- Use semantic HTML tags (h1, h2, p)
- Add some basic CSS styling (you can use inline styles or CSS file)

**Hints:**

- Look at Chapter 1, Section 7 for component syntax
- Remember: Component names must start with capital letters
- Use `export default Greeting` to export

**Testing your work:**

- Does the component render on the page?
  - Can you see all three pieces of information?
  - Is it styled nicely?
- 

**Exercise 1.2: JSX Rules****Task:** Fix JSX errors**Challenge:** You have 3 broken JSX code snippets. Fix them!**Instructions:**

1. Create a file: `src/exercises/JSXErrors.jsx` (notice: `.jsx` extension!)
2. Below are 3 broken components. Don't just copy them—write corrected versions:

```
// ERROR 1: What's wrong here?
function BadComponent1() {
  return (
    <h1>Hello</h1>
    <p>This is broken</p>
  )
}

// ERROR 2: What's wrong here?
function BadComponent2() {
  const isTrue = true
  return (
    <div>
      <p>Result: {if (.isTrue) { 'Yes' }}</p>
    </div>
  )
}

// ERROR 3: What's wrong here?
function BadComponent3() {
  return (
    <div class="container">
      
      <p>A paragraph</p>
    </div>
  )
}
```

**What you need to do:**

- Identify the error in each component
- Write the corrected version
- Create a comment above each corrected component explaining the error

**Hints:**

- Error 1: Think about "single root element" (use `<>` and `</>` or a `<div>`)
- Error 2: Think about expressions vs statements (use ternary operator)
- Error 3: Think about `className` vs `class` and self-closing tags

**Testing:**

- Can you explain why each was broken?
- Do your fixed versions not throw errors?

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## Exercise 1.3: Conditional Rendering

**Task:** Create a component that shows/hides content

**Instructions:**

1. Create: `src/components/StatusBadge.jsx` (`.jsx` extension!)
2. Create a component that:
  - Accepts a boolean value: `isOnline`
  - If true: shows "🟢 Online" with green styling
  - If false: shows "🔴 Offline" with red styling
  - Displays a message: "User is currently [online/offline]"
3. Use this component in `App.jsx` with BOTH states (create two instances: one with `true`, one with `false`)

**Don't write props yet!** Use hardcoded boolean values:

```
// At the top of the component
const isOnline = true // You'll change this value to test both cases
```

**Requirements:**

- Conditional rendering (ternary operator)
- Different styles for each state
- Works with both true and false

**Hints:**

- Use ternary operator: `isOnline ? <content if true> : <content if false>`

- Or use logical AND: `isOnline && <content>`
- Style with inline styles or CSS classes
- Test both true and false states

**Testing:**

- Does it show the correct icon and message for true?
  - Does it show the correct icon and message for false?
  - Are the colors different?
- 

## Part 2: Working with Props

### 🎓 Learning Recap

Remember:

- Props are arguments passed to components
  - Props are immutable (read-only)
  - Props allow component reusability
  - Destructuring props makes code cleaner
- 

### Exercise 2.1: Simple Props

**Task:** Create a reusable User Card component

**Instructions:**

1. Create: `src/components/UserCard.jsx` (.jsx extension!)

2. This component should accept these props:

- `name` (string): User's full name
- `email` (string): User's email address
- `role` (string): User's role (e.g., "Developer", "Designer")

3. Display these in a nicely formatted card:

```
[Name]  
Email: [Email]  
Role: [Role]
```

4. Use the component in `App.jsx` to create 3 different user cards:

- User 1: Alice, alice@example.com, Developer
- User 2: Bob, bob@example.com, Designer
- User 3: Charlie, charlie@example.com, Manager

**Requirements:**

- Use destructuring in the function parameter
- Component works with different props
- Nice styling (like a card with border/shadow)

**Hints:**

- Look at Chapter 1, Section 7 for props syntax
- Try destructuring: `function UserCard({ name, email, role })`
- Use CSS to make it look like a card (create `UserCard.css`)

**Testing:**

- Does each card show the correct information?
  - Can you change the props and see different data?
  - Does it look like a proper card?
- 

## Exercise 2.2: Props with Different Data Types

**Task:** Create a Product component that accepts different data types

**Instructions:**

1. Create: `src/components/Product.jsx` (`.jsx` extension!)
2. This component accepts:
  - `title` (string): Product name
  - `price` (number): Price in dollars
  - `inStock` (boolean): Is it available?
  - `rating` (number): Star rating (0-5)
3. Display:
  - Product title as heading
  - Price formatted as "\$XX.XX"
  - Stock status: "In Stock" or "Out of Stock" with different colors
  - Star rating: Show as "★ ★ ★ ★ ★" based on the number
4. Create 3 products in `App.jsx`:
  - Laptop: \$999, in stock, 4.5 stars
  - Phone: \$499, out of stock, 4 stars
  - Headphones: \$99, in stock, 5 stars

**Requirements:**

- Handle number type (format price)
- Handle boolean type (conditional styling)
- Create correct number of stars based on rating

**Hints:**

- For price: `price.toFixed(2)`
- For stars: Use a loop or `.map()` with an array
- For stock status: Use conditional rendering

**Testing:**

- Are prices formatted correctly?
  - Are stock statuses color-coded?
  - Do the stars match the rating?
- 

### Exercise 2.3: Props with Children

**Task:** Create a Card wrapper component

**Instructions:**

1. Create: `src/components/Card.jsx` (`.jsx` extension!)
2. This component:
  - Accepts a `title` prop
  - Accepts `children` (content between opening/closing tags)
  - Displays the title as a header
  - Displays the children inside a styled card
3. Use it in `App.jsx` to create 3 cards with different content:

```
<Card title="Card 1">
  <p>This is the content inside Card 1</p>
</Card>
```

**Requirements:**

- Use the `children` prop
- Title and content are flexible
- Card has a border/shadow styling

**Hints:**

- `children` is automatically a prop
- You can access it like any other prop: `props.children`
- Or destructure it: `function Card({ title, children })`

**Testing:**

- Does the title appear for each card?
  - Does the content inside appear correctly?
  - Can you put different content in each card?
-

## Part 3: Component Composition

### 🎓 Learning Recap

Component composition means:

- Breaking UI into small, reusable pieces
  - Combining components to build larger components
  - Parent components pass props to child components
- 

### Exercise 3.1: Building a Blog Post Component

**Task:** Create a complete blog post using smaller components

#### Instructions:

1. You already have a `UserCard` component. Now create:
2. `src/components/BlogPost.jsx` (`.jsx` extension!) that combines:
  - A header with the post title
  - The `UserCard` component showing the author
  - The post content (just text)
  - A footer with the date
3. Example structure:

```
[Post Title - as h1]
[Author info using UserCard - showing only name]
[Post content paragraph]
[Published date]
```

4. In `App.jsx`, create 2 blog posts with:

- Post 1: Title "Learning React", Author: Alice (alice@example.com, Developer), Date: Jan 15
- Post 2: Title "React Tips", Author: Bob (bob@example.com, Designer), Date: Jan 20

#### Requirements:

- Reuse the `UserCard` component
- Pass props from `BlogPost` to `UserCard`
- Style it nicely (padding, margins, fonts)

#### Hints:

- Import `UserCard`: `import UserCard from './UserCard'`
- Pass props to `UserCard`: `<UserCard name={...} email={...} role={...} />`
- Create a separate CSS file: `BlogPost.css`

#### Testing:

- Does the post title appear?
  - Does the UserCard show author info?
  - Does the post content display?
  - Is the date visible?
- 

## Exercise 3.2: Building a Movie List

**Task:** Create a movie list using component composition

### Instructions:

1. Create `src/components/Movie.jsx` (.jsx extension!):
  - Accepts: `title`, `director`, `year`, `rating`
  - Displays: Movie title, director, year, rating (stars)
2. Create `src/components/MovieList.jsx` (.jsx extension!):
  - Accepts: `movies` (array of movie objects)
  - Renders multiple `Movie` components, one for each movie using `.map()`
3. In `App.jsx`:
  - Create an array of 4 movies
  - Pass it to `MovieList`

### Example movie data structure:

```
const movies = [  
  { id: 1, title: "The Matrix", director: "Wachowski", year: 1999, rating: 4 },  
  { id: 2, title: "Inception", director: "Nolan", year: 2010, rating: 5 },  
  { id: 3, title: "The Dark Knight", director: "Nolan", year: 2008, rating: 5 },  
  { id: 4, title: "Interstellar", director: "Nolan", year: 2014, rating: 5 }  
]
```

### Requirements:

- Movie component displays individual movie
- MovieList component uses `.map()` to render multiple movies
- Each movie has consistent styling
- Each movie item has a `key` prop (use the `id`)

### Hints:

- Use `.map()` in `MovieList`
- Key prop: `<Movie key={movie.id} {...props} />`
- Movie component should show all 4 pieces of info

### Testing:

- Do all movies appear in the list?
  - Does each movie show correct info?
  - Are they styled consistently?
- 

### Exercise 3.3: State Preview (Preparing for Chapter 2)

**Task:** Create a toggle component without state (just prepare the UI)

#### Instructions:

1. Create `src/components/ToggleButton.jsx` (`.jsx` extension!):
  - Shows a button with text "Click me!"
  - Has a content area below that shows:
    - "Content is VISIBLE" (with green styling)
    - OR "Content is HIDDEN" (with gray styling)
2. For now: Just create the UI. The button won't work yet (no state).
  - Create two versions using conditional rendering:
  - In `App.jsx`, show both the "visible" and "hidden" versions
3. Next chapter you'll make it actually toggle!

#### Requirements:

- Button element (doesn't need to work yet)
- Two different displays based on a variable
- Nice styling for visible/hidden states

#### Hints:

- Use a hardcoded boolean variable
- Test by changing the variable and restarting the dev server
- This prepares you for `useState` in Chapter 2

#### Testing:

- Does it show the visible message?
  - Can you change the variable to show hidden?
  - Is the styling different for each state?
- 

## Part 4: Project Challenge

### Challenge: Personal Portfolio Preview

**Difficulty:** Medium

**Time Estimate:** 2-3 hours

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## Challenge Description

Build a **Personal Portfolio Website Preview** component. This is a single-page preview of what a portfolio might look like. Later chapters will make it interactive and add real functionality!

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## Requirements

### Must Include (Core Features):

#### 1. Header Component ([Header.jsx](#))

- Your name (as title)
- A brief tagline about yourself
- Navigation links (just display them, no routing yet):
  - Home
  - About
  - Projects
  - Contact

#### 2. About Section Component ([About.jsx](#))

- A profile image (use a placeholder image URL)
- A brief bio (2-3 sentences about yourself)
- Your skills (just a list: React, JavaScript, HTML, CSS, etc.)

#### 3. Project Showcase Component ([ProjectCard.jsx](#) and [ProjectShowcase.jsx](#))

- Display 3 projects as cards
- Each project card shows:
  - Project name
  - Description
  - Technologies used (as a list)
  - An "amazing" emoji indicator (★)

#### 4. Contact Section Component ([Contact.jsx](#))

- Your email
- GitHub link (just the URL, no actual link yet)
- LinkedIn link (just the URL)

#### 5. Footer Component ([Footer.jsx](#))

- Copyright notice: "© 2024 [Your Name]"

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## File Structure You Should Have

```
src/  
  └── components/  
      └── Header/
```

Header.jsx	<input checked="" type="checkbox"/> .jsx extension
Header.css	
About/	
About.jsx	<input checked="" type="checkbox"/> .jsx extension
About.css	
ProjectCard/	
ProjectCard.jsx	<input checked="" type="checkbox"/> .jsx extension
ProjectCard.css	
ProjectShowcase/	
ProjectShowcase.jsx	<input checked="" type="checkbox"/> .jsx extension
ProjectShowcase.css	
Contact/	
Contact.jsx	<input checked="" type="checkbox"/> .jsx extension
Contact.css	
Footer/	
Footer.jsx	<input checked="" type="checkbox"/> .jsx extension
Footer.css	
App.jsx	<input checked="" type="checkbox"/> .jsx extension
App.css	
main.jsx	<input checked="" type="checkbox"/> Entry point (already exists)
index.css	

## Step-by-Step Guide (Don't read ahead!)

### Step 1: Plan your components

- Don't code yet! On paper or in comments, sketch:
  - What props does each component need?
  - What data is hardcoded vs. passed as props?
  - How do components relate to each other?

### Step 2: Create Header component ([src/components/Header/Header.jsx](#))

- Should accept: `name` (your name), `tagline` (your tagline)
- Display: Name as h1, tagline as h2
- Style it nicely with background color

### Step 3: Create About component ([src/components/About/About.jsx](#))

- Should accept: `profileImage` (URL), `bio` (text), `skills` (array)
- Display: Image, bio, skills as a list
- Hint: Use `.map()` for skills array

### Step 4: Create Project components

- Create `ProjectCard.jsx` that accepts: `name`, `description`, `technologies`
- Create `ProjectShowcase.jsx` that:
  - Has an array of projects
  - Uses `.map()` to render `ProjectCard` for each
  - Hint: Don't hardcode projects in Showcase, receive them as props

**Step 5: Create Contact component ([src/components/Contact/Contact.jsx](#))**

- Accept: [email](#), [github](#), [linkedin](#)
- Display: All contact info nicely formatted

**Step 6: Create Footer component ([src/components/Footer/Footer.jsx](#))**

- Accept: [name](#)
- Display: Copyright notice

**Step 7: Compose in App.jsx**

- Import all components
- Create an [App](#) component that uses all of them
- Arrange them in a logical order

**Step 8: Style everything**

- Use CSS files or inline styles
  - Make it look professional
  - Use consistent colors, fonts, spacing
- 

## Challenge Questions (Answer these!)

**1. Component Reusability:**

- Which components could be reused elsewhere? Why?
- How did props help make components flexible?

**2. Data Flow:**

- How does data flow from App.jsx to the smallest components?
- Why not hardcode all data in each component?

**3. Composition:**

- How did breaking the portfolio into components help?
  - What would happen if you tried to build it all in one component?
- 

## Stretch Goals (Optional - If you finish early)

- Add an avatar image that shows a circle (use CSS [border-radius: 50%](#))
  - Add a skills section with skill categories (e.g., "Frontend", "Tools")
  - Add a "featured project" that stands out differently than others
  - Add testimonials section (show 2 fake testimonials with quotes)
  - Make the navigation links styled like buttons
  - Add a background image or gradient to the header
  - Add a theme toggle button (doesn't need to work yet)
-

## Grading Rubric

Category	Excellent	Good	Fair	Needs Work
<b>Component Structure</b>	6+ components, well-organized	5 components, organized	4 components, somewhat organized	<4 components or disorganized
<b>Props Usage</b>	All components accept appropriate props	Most components use props	Some components hardcode data	All data hardcoded
<b>JSX Quality</b>	Semantic HTML, no errors, <code>.jsx</code> files	Valid JSX, few issues	Some JSX errors	Many JSX errors
<b>File Extensions</b>	All React files use <code>.jsx</code>	Most files use <code>.jsx</code>	Some files use <code>.jsx</code>	Files use wrong extensions
<b>Composition</b>	Components reuse other components	Some component nesting	Minimal reuse	No composition
<b>Styling</b>	Professional, consistent, responsive	Nice styling, mostly consistent	Basic styling, inconsistent	Minimal styling
<b>Functionality</b>	All requirements met, stretches included	All requirements met	Most requirements met	Missing requirements

## Submission Guidelines

### What to Submit

1. **Your code** (entire project folder)
2. **A README.md file** with:
  - **Your Name and Date**
  - **Lab Summary** (2-3 sentences about what you built)
  - **Components Created** (list all components and what they do)
  - **Setup Instructions:**

```
npm create vite@latest lab-1-fundamentals -- --template react
cd lab-1-fundamentals
npm install
npm run dev
```

- **Challenges Encountered** (2-3 things that were tricky and how you solved them)
- **Key Learnings** (3-4 things you learned)
- **Vite Notes** (if any issues with Vite vs CRA)

### 3. A Screenshot of your working portfolio in the browser

#### Submission Format

```
Lab-1-Submission/
├── lab-1-fundamentals/          # Your Vite React project folder
│   ├── src/
│   ├── index.html               # Root HTML (Vite, not in public/)
│   ├── package.json
│   ├── vite.config.js           # Vite config
│   └── ... (all other files)
└── README.md
└── screenshot.png
```

#### How to Submit

##### Option 1: Upload to GitHub (Recommended)

```
git init
git add .
git commit -m "Lab 1: React Fundamentals Complete (Vite Edition)"
git branch -M main
git remote add origin https://github.com/yourusername/lab-1-react.git
git push -u origin main
```

- Share the GitHub link

##### Option 2: Zip and Email

- Compress entire Lab-1-Submission folder
- Email to your instructor

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#### Bonus: Self-Assessment

Before submitting, answer these questions honestly:

##### 1. Understanding:

- I understand what JSX is
- I can create a functional component
- I understand how props work
- I can compose components together
- I know when to use `.jsx` vs `.js`

##### 2. Skills:

- I can fix JSX syntax errors

- I can use props to pass data
- I can use `.map()` to render lists
- I can style components with CSS
- I can set up a Vite React project

### 3. Confidence:

- What was easiest? (Component creation, props, styling, composition, Vite setup?)
  - What was hardest? (JSX, props, styling, composition, file structure?)
  - Do I feel ready for Chapter 2 (State)?
  - Did Vite feel fast compared to CRA?
- 

## Common Mistakes to Avoid

✗ Don't:

### 1. Forget to export components

```
// ✗ Wrong - no export
function MyComponent() { ... }

// ☑ Right
export default MyComponent
```

### 2. Use lowercase for component names

```
// ✗ Wrong
function greeting() { ... }

// ☑ Right
function Greeting() { ... }
```

### 3. Use `.js` extension for React components

✗ Greeting.js  
☑ Greeting.jsx

### 4. Return multiple elements without wrapper

```
// ✗ Wrong
return (
  <h1>Title</h1>
  <p>Content</p>
)
```

```
// ✅ Right (use <> </>)
return (
  <>
    <h1>Title</h1>
    <p>Content</p>
  </>
)
```

## 5. Forget to import components

```
// ❌ Wrong - didn't import
export default function App() {
  return <UserCard /> // ERROR!
}

// ✅ Right
import UserCard from './components/UserCard'

export default function App() {
  return <UserCard />
}
```

## 6. Use **class** instead of **className**

```
// ❌ Wrong
<div class="container">Content</div>

// ✅ Right
<div className="container">Content</div>
```

## 7. Forget to use key prop in lists

```
// ⚠️ Works but not ideal
items.map((item, index) => <Movie key={index} ... />)

// ✅ Better - use unique id
items.map((item) => <Movie key={item.id} ... />)
```

---

## Getting Help

### If you get stuck:

1. **Read the error message carefully** - Vite and React give helpful error messages!
2. **Check file extensions** - Make sure React components use **.jsx**

3. **Revisit Chapter 1** - Look for similar examples
  4. **Check your imports** - Most errors are missing imports or wrong paths
  5. **Inspect in browser DevTools** - Press F12 to check the Elements tab
  6. **Use React DevTools** - Inspect components and props
  7. **Ask your instructor** - Don't struggle alone!
- 

## Next Steps

After completing this lab:

- Review your code and make sure you understand every line
  - Show your portfolio to someone and get feedback
  - Check your Vite project structure against Chapter 1
  - Read Chapter 2: State & Forms
  - Come back to this lab later and refactor with what you learned
- 

**Good luck! You've got this! 🦸**

Remember: The goal isn't perfection—it's understanding. Every mistake is a learning opportunity.

**Welcome to the world of Vite + React! ↗**

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## Answer Key (For Instructors Only)

► Click to expand (Students: Try without this first!)

### Exercise 1.1 Solution Example

```
// src/components/Greeting.jsx
import './Greeting.css'

export default function Greeting() {
  return (
    <div className="greeting-container">
      <h1>Welcome to React!</h1>
      <h2>This is my first component</h2>
      <p>
        Fun Fact: React was created by Facebook and is now maintained by Meta
        and the community! Vite is the modern build tool for React apps!
      </p>
    </div>
  )
}
```

### Exercise 1.2 Solutions

```
// ERROR 1: Multiple root elements - wrap in div or use <>
function FixedComponent1() {
  return (
    <>
      <h1>Hello</h1>
      <p>This is fixed</p>
    </>
  )
}

// ERROR 2: Can't use if statement inside JSX - use ternary
function FixedComponent2() {
  const isTrue = true
  return (
    <div>
      <p>Result: {.isTrue ? 'Yes' : 'No'}</p>
    </div>
  )
}

// ERROR 3: Use className and self-closing tags
function FixedComponent3() {
  return (
    <div className="container">
      
      <p>A paragraph</p>
    </div>
  )
}
```

## Exercise 2.1 Solution Example

```
// src/components/UserCard.jsx
import './UserCard.css'

export default function UserCard({ name, email, role }) {
  return (
    <div className="user-card">
      <h3>{name}</h3>
      <p><strong>Email:</strong> {email}</p>
      <p><strong>Role:</strong> {role}</p>
    </div>
  )
}
```

```
// In App.jsx
import UserCard from './components/UserCard'
```

```
function App() {
  return (
    <div className="app">
      <UserCard
        name="Alice"
        email="alice@example.com"
        role="Developer"
      />
      <UserCard
        name="Bob"
        email="bob@example.com"
        role="Designer"
      />
      <UserCard
        name="Charlie"
        email="charlie@example.com"
        role="Manager"
      />
    </div>
  )
}

export default App
```

## Portfolio Challenge - App.jsx Example

```
import Header from './components/Header/Header'
import About from './components/About/About'
import ProjectShowcase from './components/ProjectShowcase/ProjectShowcase'
import Contact from './components/Contact/Contact'
import Footer from './components/Footer/Footer'
import './App.css'

function App() {
  const projects = [
    {
      id: 1,
      name: 'Todo App',
      description: 'A React task management app',
      technologies: ['React', 'JavaScript', 'CSS']
    },
    {
      id: 2,
      name: 'Weather Dashboard',
      description: 'Real-time weather using API',
      technologies: ['React', 'API', 'Charts']
    },
    {
      id: 3,
      name: 'E-commerce Site',
      description: 'Full shopping experience',
    }
  ]
  return (
    <div>
      <Header />
      <About />
      <ProjectShowcase projects={projects} />
      <Contact />
      <Footer />
    </div>
  )
}

export default App
```

```
        technologies: ['React', 'Node.js', 'MongoDB']
    }
]

return (
  <div className="portfolio">
    <Header name="Your Name" tagline="Full Stack Developer" />
    <About
      profileImage="https://via.placeholder.com/150"
      bio="I'm passionate about building amazing web experiences..."
      skills={['React', 'JavaScript', 'CSS', 'HTML', 'Node.js']}
    />
    <ProjectShowcase projects={projects} />
    <Contact
      email="your@email.com"
      github="github.com/yourname"
      linkedin="linkedin.com/in/yourname"
    />
    <Footer name="Your Name" />
  </div>
)
}

export default App
```

---

## Lab 1 Complete! Ready for Chapter 2? 🎓

Remember: You're using Vite (modern, fast) with proper **.jsx** files (professional, clear)! ↗