

# Session 1 — Setting Up Your Trivia Game

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Welcome to React Development! 🎉

You're about to launch your dev setup and start building like a pro. This guide breaks everything down into bite-sized tasks so you can move fast, learn by doing, and see results right away. Ready to dive in? Let's go!

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## Launch Your Codespace

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Let's get your cloud coding environment up and running so you can start building without messing with local installs. This is your dev playground in the cloud — no setup headaches, no installs, just code.

1. Head over to [github.com](https://github.com) and log in using the account you set up during pre-camp.
2. Go to [github.com/wizcamp/wizcamp-realms-demo](https://github.com/wizcamp/wizcamp-realms-demo) and click **Use this template** → **Open in codespace**.
3. Wait a bit while your **Codespace** builds. You'll see a **VS Code** editor pop up in your browser.
4. Once it loads, make sure you can see the project files in the file explorer on the left.
5. **Customize your theme**: Click the gear icon in the bottom left, go to **Themes** -> **Color Theme**, and pick your favorite (Dark+ is popular for coding).

## Why This Matters

**Codespaces** give everyone the same setup — no more “it works on my machine” drama. If you mess something up, just delete and start fresh. It's like having a reset button for your

entire dev environment. You will use this Codespace for all sessions.

## Bonus Challenge

Visit [github.com/codespaces](https://github.com/codespaces) to explore more about managing your Codespaces.

## Project Navigation

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*Quick orientation to help you find files during today's tasks:*

```
wizcamp-realms-demo/
├── src/                    # Your React code lives here
│   ├── components/        # React components (SplashScreen, etc.)
│   └── App.jsx             # Main app component (you'll edit this!)
├── public/                # Static files (images, etc.)
├── session-guides/        # Step-by-step guides (like this one)
├── index.html              # HTML entry point (you'll edit this too!)
└── package.json            # Project configuration (npm scripts, dependencies)
```

**For today's tasks, you'll only work with:**

- `src/App.jsx` — to swap components
- `index.html` — to update the page title
- `session-guides/` — for instructions (that's where you are now!)

*Don't worry about the other folders yet — we'll explore them in future sessions.*

## Start the Development Server

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Preview the app in your browser by running the dev server to confirm everything is wired up correctly.

1. Launch the dev server from the terminal: `npm run dev`.
2. Click "Open in Browser" or visit the provided localhost URL (e.g., `http://localhost:5173/`).
3. The starter app should load, showing a placeholder component.

## Why This Matters

Your dev server is like having a live preview of your creation. Every change you make shows up instantly — you're watching your code come to life in real-time.

## Bonus Challenge

Try stopping and restarting the dev server:

- Stop the server with `Ctrl + C` in the terminal.
- Check localhost again to see the app is gone.
- Restart it with `npm run dev` and refresh the browser to see the app again.

## Replace the Placeholder Component

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With the development server still running, replace the placeholder component with the game's splash screen component to experience live updates in action.

1. Open `src/App.jsx`
2. Add the import: `import SplashScreen from './components/SplashScreen';`
3. Replace `<StartHere />` with `<SplashScreen />`
4. Watch the screen update instantly — no save needed!

## Why This Matters

**Components** are the building blocks of **React** web apps — kind of like digital LEGO pieces. You build apps by snapping them together.

You probably noticed the `.jsx` file extension. That's because these **components** are written in a special syntax called **JSX**. It looks a lot like HTML, but is actually JavaScript under the hood. JSX lets you describe what the UI should look — using a syntax that's readable like HTML but powered by JavaScript.

The live update “magic” you experienced is actually powered by a build tool we are using called **Vite**, which uses a process known as **Hot Module Replacement (HMR)** to apply “smart updates” to your app instantly as you code.

## Update the Page Title

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Even though React apps are built with components, they still use a standard HTML file as the entry point. Let's update the page title to reflect our project name.

1. Open `index.html`
2. Identify where the HTML head/title is defined
3. Update the `title` tag to the name of our project: `Wizcamp Realms - Legends of Trivia`

4. **Confirm the browser tab** displays the new title.





## 💡 Why This Matters

A descriptive page title is important for usability, accessibility, and SEO. It helps users identify your app when they have multiple tabs open and improves discoverability in search engines.

## 📚 Essential Terms

*Quick reference for all the tools and concepts you just experienced:*

Term	Definition	Why it matters
☁️ Codespace	A cloud dev environment from GitHub — a ready-made VS Code workspace that runs in your browser.	You'll launch this first; it gives everyone the same setup so you can jump straight to coding.
💻 VS Code	Your coding headquarters — think Photoshop but for building apps instead of editing photos.	This is where the magic happens. File explorer, code editor, terminal — all in one place.
🔧 Node.js	JavaScript that runs on your computer (not just in browsers) — like having a JavaScript engine everywhere.	Powers your dev tools and lets you run <code>npm</code> commands. It's JavaScript unleashed.
📦 npm	Node's package manager — installs libraries and runs scripts ( <code>npm run dev</code> ).	Use it to install dependencies and start the dev server.
⚡ Vite	The Ferrari of dev servers — crazy fast and makes your app load instantly during development.	When you run <code>npm run dev</code> , Vite serves your app at lightning speed. You'll see why it's so popular.

 Hot Module Replacement (HMR)	Updates only the changed code in the browser without a full reload, often keeping app state.	Lets you see edits instantly (CSS/JS) while you work — you'll notice changes apply without losing progress.
 React	A library for building UIs out of components; it updates the UI when data changes.	The project is a React app — you'll edit components to change what users see.
🌟 JSX	JavaScript syntax that looks like HTML — used to describe UI in React components ( <code>.jsx</code> ).	You'll edit <code>.jsx</code> files (e.g., <code>src/App.jsx</code> ) to swap components and change UI.
 component	A reusable piece of UI that can include markup, styles, and logic (example: <code>&lt;SplashScreen /&gt;</code> ).	You'll replace a placeholder component with <code>SplashScreen</code> to practice editing and imports.
 Document Object Model (DOM)	The browser's object model of the page — JS code (including React) reads and updates the DOM to change what users see.	React updates the DOM when you change components or state (e.g., button clicks, title updates).

## Ask the AI — What Just Happened?

You just launched your Codespace, ran your dev server, swapped a component, and updated your page title — nice work!

Now let's make sure you understand what you did and why it matters. Here are the most impactful questions to ask your AI assistant about today's session:

- **Why is cloud development better for beginners?**
- **What is a development server and why do we need it?**
- **What does the localhost URL mean?**
- **What's the difference between `npm run dev` and `npm start`?**
- **How and why do I import a component in React? Where am I importing all that from?**

- What does `import SplashScreen` from `'./components/SplashScreen'` mean?
  - In a React app, what does the `index.html` file do?
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### **Pro Tip:**

You don't have to memorize everything — just ask your AI assistant when you're curious or stuck. Think of it as your trusty AI sidekick, always ready to help.