

# Session 1 — Setting Up Your Trivia Game

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You're about to launch your dev setup and start building your trivia game. 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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## Creating Your Codespace

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 **Goal:** Set up your cloud development environment so you can start coding without any local installations.

### Step 1: Sign in to GitHub

Go to [github.com](https://github.com) and log in with your account.

### Step 2: Launch the template

Go to [github.com/wizcamp/wizcamp-realms-demo](https://github.com/wizcamp/wizcamp-realms-demo) and click **Use this template** → **Open in a codespace**.


✓ **You should see:** Your Codespace begins building (this takes 1-2 minutes).

### Step 3: Wait for the environment to load

Once the build completes, **VS Code** will open in your browser.

✓ **You should see:** Project files appear in the file explorer on the left side.

## Step 4: Customize your theme (optional)

Click the  gear icon in the bottom left → **Themes** → **Color Theme** → pick your favorite (Dark+ is popular for coding).

### Why Codespaces

Everyone gets the same setup — no more “it works on my machine” drama. Mess something up? Just delete and start fresh. It’s like having a reset button for your entire dev environment. You’ll use this **Codespace** for all 12 sessions.

### Bonus Challenge

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

## Navigating the Project

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


```
wizcamp-realms/
├── 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.)
├── 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

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

## Starting Your Development Server

 **Goal:** Practice starting and stopping the local server you’ll use to preview real-time changes as you build your app.

## Step 1: Run the dev server

From the terminal at the bottom of your Codespace, run:

```
npm run dev
```

## Step 2: Open the app in your browser

After running the command, you'll see output like:

```
VITE v7.1.7  ready in 2473 ms

→ Local:   http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

Follow the link (ctrl + click), copy-paste it into a new browser tab, or click “Open in Browser” if a dialog appears.

✓ **You should see:** A web page displaying the starter app with placeholder content.

## Step 3: Stop the server

Go back to your terminal and press `Ctrl + C`.

✓ **You should see:**


- Terminal returns to the command prompt
- Refreshing the browser shows a connection error (app no longer running)



### Dev Server Workflow

Run `npm run dev` to fire up your server and see your app live. Hit `Ctrl + C` to shut it down. You'll use these commands constantly — they're about to become muscle memory. **Node.js** powers the development tools, **npm** manages packages and runs scripts, and **Vite** serves your app at lightning speed with **Hot Module Replacement** (HMR) that updates code instantly without full page reloads.

## Editing Your First Component

 **Goal:** Edit the App component to display your game's splash screen and experience React's live updates.

File: `src/App.jsx`

Replace `StartHere` with `SplashScreen` by updating the import at the top and what the component returns:

```
-import StartHere from "../components/StartHere";
+import SplashScreen from "../components/SplashScreen";

export default function App() {
  return (
    <div className="app-container">
-    <StartHere />
+    <SplashScreen />
    </div>
  );
}
```

✓ **You should see:** The screen updates instantly — no save needed, no refresh required. That's the magic of Hot Module Replacement!

### Components and JSX

**Components** are React's building blocks — think digital LEGO pieces you snap together to build apps. That `.jsx` extension? It's **JSX**, a special syntax that looks like HTML but is actually JavaScript. And that instant update you just saw? That's Vite's Hot Module Replacement (HMR) doing its thing — your dev server is basically a live preview of your creation.

## Updating the Page Title

 **Goal:** Customize the browser tab title for your game.

File: `index.html`

Update the page title to reflect your game:

```

<!doctype html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    - <title>Wizcamp - Fullstack Explorer</title>
    + <title>Wizcamp Realms - Legends of Trivia</title>
  </head>

```



✓ **You should see:** The browser tab displays your new title.









### 💡 HTML Entry Point

Even though React apps are built with components, they still need a standard HTML file as the entry point. A descriptive page title helps users identify your app when they have multiple tabs open — plus it's crucial for accessibility and SEO. React updates the **DOM** (Document Object Model) to change what users see in the browser.

## 📋 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 — Setting Up Your Trivia Game

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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?