This project is a **Simple YouTube Player** built with HTML, CSS, and vanilla JavaScript. It allows a user to paste a YouTube video URL (either a standard or a youtu.be short link) and load it into an embedded player on the page.

**🚀 Simple YouTube Player**

A straightforward web application for embedding and playing YouTube videos from a URL. It utilizes a simple JavaScript function to extract the video ID and update an <iframe> player.

**✨ Features**

* **URL Handling:** Accepts standard YouTube watch links (https://www.youtube.com/watch?v=...) and short links (https://youtu.be/...).
* **Video ID Extraction:** A pure JavaScript function handles extracting the 11-character video ID from the provided URL.
* **Embedded Player:** Uses the native YouTube embed <iframe> for video playback, requiring no external player libraries.
* **Responsive Design:** The player and controls are styled to adapt to different screen sizes, including mobile.
* **Enter Key Support:** Users can press the **Enter** key in the input field to load the video.

**🛠️ Technologies Used**

* **HTML5** (Structure)
* **CSS3** (Styling, with a dark theme and responsive layout)
* **Vanilla JavaScript** (Logic for URL parsing and player updating)

**💻 How to Use**

1. **Paste URL:** Enter a valid YouTube URL (or even just the 11-character video ID) into the input field.
2. **Play:** Click the **"Play"** button or press the **Enter** key.

The video will automatically load and update in the embedded player below the controls.

**📂 Project Structure**

| File | Description |
| --- | --- |
| index.html | The main HTML structure, including the input, button, and the YouTube <iframe>. |
| style.css | Styles for the page layout, card design, controls, and responsive adjustments. |
| script.js | Contains the core logic for extracting the video ID, handling button clicks, and updating the player's src. |

**Key JavaScript Logic**

The extractYouTubeID(url) function in script.js is responsible for parsing the URL:

* It checks for youtu.be links and extracts the ID from the pathname.
* It checks for standard youtube.com links and extracts the ID from the v query parameter (v=...).
* It also supports direct input of the 11-character video ID.
* If a valid ID is found, it constructs the new embed URL (https://www.youtube.com/embed/...) and sets it as the src for the player <iframe>.