# Task 7: Advanced API Usage and External API Integration

Objective: Explore advanced API concepts and integrate external APIs.

## Code :

```
import React from 'react';

import { Lock, Send, Shield, Activity, Database } from 'lucide-react';

import { Card, CardContent, CardHeader, CardTitle } from '@/components/ui/card';


const EmojiApiDisplay = () => {
 return (
   <Card className="w-full max-w-2xl bg-gradient-to-br from-yellow-100 to-yellow-200">
     <CardHeader>
       <CardTitle className="text-2xl font-bold text-gray-800">
         Advanced API Integration
       </CardTitle>
     </CardHeader>
     <CardContent>
       <div className="grid grid-cols-3 gap-6 p-4">
         {/* OAuth Security */}
         <div className="flex flex-col items-center space-y-2 transform hover:scale-105 transition-transform">
           <div className="p-4 bg-white rounded-full shadow-lg">
             <Lock className="w-8 h-8 text-blue-600 animate-pulse" />
           </div>
```

```jsx
          <p className="text-sm font-medium text-gray-700">OAuth Security</p>
        </div>


        {/* API Integration */}
        <div className="flex flex-col items-center space-y-2 transform hover:scale-105 transition-transform">
          <div className="p-4 bg-white rounded-full shadow-lg">
            <Send className="w-8 h-8 text-green-600 animate-bounce" />
          </div>
          <p className="text-sm font-medium text-gray-700">API Integration</p>
        </div>


        {/* Data Protection */}
        <div className="flex flex-col items-center space-y-2 transform hover:scale-105 transition-transform">
          <div className="p-4 bg-white rounded-full shadow-lg">
            <Shield className="w-8 h-8 text-purple-600 animate-pulse" />
          </div>
          <p className="text-sm font-medium text-gray-700">Data Protection</p>
        </div>


        {/* Rate Limiting */}
        <div className="flex flex-col items-center space-y-2 transform hover:scale-105 transition-transform">
          <div className="p-4 bg-white rounded-full shadow-lg">
            <Activity className="w-8 h-8 text-red-600 animate-pulse" />
```

```jsx
        </div>

        <p className="text-sm font-medium text-gray-700">Rate Limiting</p>

        </div>


        {/* Database */}

        <div className="flex flex-col items-center space-y-2 transform
hover:scale-105 transition-transform">

          <div className="p-4 bg-white rounded-full shadow-lg">

            <Database className="w-8 h-8 text-yellow-600 animate-bounce" />

          </div>

          <p className="text-sm font-medium text-gray-700">Data Storage</p>

        </div>
      {/* Status Info */}

        <div className="flex flex-col items-center space-y-2 transform
hover:scale-105 transition-transform">

          <div className="p-4 bg-white rounded-full shadow-lg">

            <div className="w-8 h-8 rounded-full bg-gradient-to-r from-green-400
to-blue-500 animate-spin" />

          </div>

          <p className="text-sm font-medium text-gray-700">API Status</p>

        </div>

      </div>

    </CardContent>

  </Card>

 );

};

export default EmojiApiDisplay;
```

**Advanced API Integration**

OAuth Security

API Integration

Data Protection

Rate Limiting

Data Storage

API Status