**URL SHORTENER WEB APPLICATION**

import React, { useState } from 'react';

import axios from 'axios';

import './UrlShortener.css';

const UrlShortener = () => {

const [longUrl, setLongUrl] = useState('');

const [shortUrl, setShortUrl] = useState('');

const [error, setError] = useState('');

const handleSubmit = async (e) => {

e.preventDefault();

setError('');

setShortUrl('');

try {

const response = await axios.post('/api/shorten', { longUrl });

setShortUrl(response.data.shortUrl);

} catch (err) {

setError(err.response.data.message || 'Something went wrong. Please try again.');

}

};

return (

<div className="url-shortener">

<h1>URL Shortener</h1>

<form onSubmit={handleSubmit}>

<input

type="url"

placeholder="Enter your URL here"

value={longUrl}

onChange={(e) => setLongUrl(e.target.value)}

required

/>

<button type="submit">Shorten</button>

</form>

{error && <p className="error">{error}</p>}

{shortUrl && (

<div className="short-url-container">

<p>Your shortened URL is:</p>

<a href={shortUrl} target="\_blank" rel="noopener noreferrer">{shortUrl}</a>

</div>

)}

</div>

);

};

export default UrlShortener;

CSS

body {

font-family: Arial, sans-serif;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

background-color: #f0f0f0;

}

.App {

text-align: center;

background: white;

padding: 2em;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

form {

display: flex;

justify-content: center;

align-items: center;

}

form input {

padding: 0.5em;

font-size: 1em;

margin-right: 0.5em;

border: 1px solid #ccc;

border-radius: 5px;

}

form button {

padding: 0.5em 1em;

font-size: 1em;

border: none;

background-color: #007bff;

color: white;

border-radius: 5px;

cursor: pointer;

}

form button:hover {

background-color: #0056b3;

}

.error {

color: red;

margin-top: 1em;

}

.short-url-container {

margin-top: 1em;

}

.short-url-container a {

color: #007bff;

text-decoration: none;

}

.short-url-container a:hover {

text-decoration: underline;

}