

T-Shirt Customizer - React + Tailwind Project Submission

1. Project Overview

This is a responsive T-shirt customization tool developed using React (Vite), Tailwind CSS, and react-hook-form. It allows users to input physical measurements, upload custom images, and enter a short message to be printed on a T-shirt. The tool also supports toggling between a standard preview and a simulated 3D view using Alt + Q.

2. Key Features

- Height, Weight, Build inputs with default values
- Drag-and-drop image upload + file upload support
- Real-time image preview
- Three-line text input
- View toggle between static and 3D shirt simulation
- Responsive layout built with Tailwind CSS
- Form state handled by react-hook-form

3. Tech Stack

- React (with Vite)
- Tailwind CSS
- react-hook-form
- JavaScript/JSX
- Cloudflare Pages

4. Tailwind CSS Configuration

```
@tailwind base;  
@tailwind components;  
@tailwind utilities;
```

5. Sample React Code (App.jsx)

```
import React, { useState, useEffect } from 'react';  
import { useForm } from 'react-hook-form';  
  
export default function App() {  
  const { register, handleSubmit } = useForm({  
    defaultValues: { height: 180, weight: 80, build: 'Athletic', text: " }  
  });  
  const [uploadedImage, setUploadedImage] = useState(null);  
  const [view3D, setView3D] = useState(false);  
  
  const onSubmit = data => console.log(data);
```

```

useEffect(() => {
  const handleKeyDown = (e) => { if (e.altKey && e.key === 'q') setView3D(prev =>
!prev); };
  window.addEventListener('keydown', handleKeyDown);
  return () => window.removeEventListener('keydown', handleKeyDown);
}, []);

return (
  <div className='min-h-screen p-6 bg-gray-100'>
    { /* UI elements */ }
  </div>
);
}

```

6. Deployment Instructions

1. Clone or unzip the project.
2. Run `npm install`
3. Run `npm run dev`
4. Push to GitHub or GitLab
5. On Cloudflare Pages:
 - Set build command: npm run build
 - Output folder: dist
6. Click Deploy

7. Deployment Link

[Insert your live deployment URL here]

8. Interview Availability

Available Monday–Friday, 11:00 AM to 6:00 PM IST.