

Tensile – Web Platform & Firebase Admin Dashboard

Project Overview

Tensile is a full-stack digital solution consisting of a **public-facing responsive website** and a **desktop-based Firebase Admin Dashboard**.

The platform showcases architectural and urban tensile structure projects with immersive visuals, while the admin app enables easy **CRUD operations** to manage website content in real time.

Website Summary

An interactive, modern React website designed to showcase Tensile's architectural projects with rich visuals and smooth navigation. The site focuses on strong UI/UX, responsiveness, and performance, while supporting **Tensile – Web Platform & Firebase Admin Dashboard**

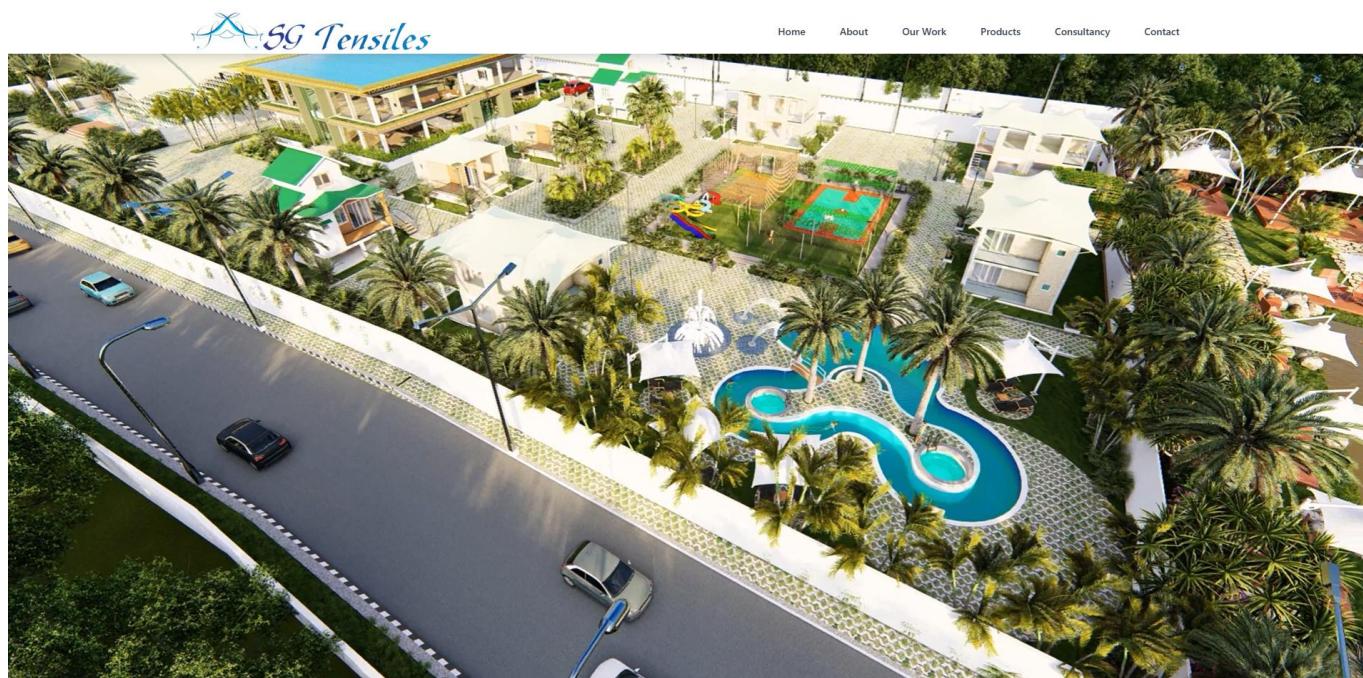
🔗 **Live Website:** <https://www.sgtensiles.com>

Project Overview

Tensile is a full-stack digital solution consisting of:

1. A **live, production website** for showcasing architectural tensile structure projects
2. A **desktop-based Firebase Admin Dashboard** used to manage website content through **CRUD operations**

The system allows real-time updates to the live website without redeploying code.



SG TENSILE

SG Tensile is a proud sister company of **Everest Tent Technologies SDN BHD**, a renowned Malaysian manufacturer specializing in a wide range of tensile fabric structures. With strong roots in engineering excellence and innovation, we deliver custom-designed solutions tailored to the unique requirements of each project.

At **SG Tensile**, we understand that every construction space is different. That's why we provide bespoke tensile solutions that align with both the architectural needs and personal preferences of our clients.

Our commitment to **quality craftsmanship** and **customer satisfaction** is at the core of everything we do. From consultation to completion, we strive to exceed expectations by delivering reliable, durable, and visually striking tensile structures.

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OUR WORK



Live Website

🔗 **URL:** <https://www.sgtensiles.com>

An interactive, responsive React website designed for marketing and showcasing tensile architectural & urban projects with immersive visuals and smooth navigation.

Website Key Features

- Responsive UI (desktop, tablet, mobile)
- Homepage hero with visuals / 3D canvas
- Our Work (projects listing)
- Individual project detail pages
- Products & Consultancy pages
- Contact form with email integration
- Firebase-powered dynamic content updates

Desktop Admin Application (Firebase Manager Dashboard)

A **desktop application** built to manage all website content via **Firebase CRUD operations**.

What it does

- Add new projects
- Upload multiple images
- Update titles, descriptions, project type, use & location
- Delete projects
- Instantly sync updates to <https://www.sgtensiles.com>

This acts as a **custom CMS** for the website.

Your Role

- Frontend Developer (Website)
- UI/UX Design
- Firebase Integration

- Desktop Application Development
 - Admin Dashboard (CRUD logic)
 - Deployment & Live Production Support
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Tech Stack

Website

- React (v19)
- Tailwind CSS
- React Router
- Three.js (@react-three/fiber, @react-three/drei)
- Firebase (Firestore & Storage)
- EmailJS
- lucide-react

Desktop Admin App

- Firebase SDK
- Firestore & Storage
- Desktop UI framework
- Secure project CRUD management

System Architecture (Simple Explanation)

1. Admin uses **Desktop Firebase Manager**
2. Data stored in **Firebase Firestore & Storage**
3. Website fetches live data from Firebase
4. Updates appear instantly on **sgtensiles.com**

ng dynamic project updates through Firebase.

Key highlights

- Responsive, mobile-friendly design
- Project listings and detailed project pages
- 3D visual elements for immersive experience
- Contact & consultancy lead capture
- Dynamic content updated from Firebase

Desktop Admin Application Summary

A **desktop-based Firebase Manager Dashboard** built to manage website data efficiently.

This internal tool allows administrators to **Create, Read, Update, and Delete (CRUD)** project data, images, and metadata without touching the website code.

Purpose

- Centralized content management
- Faster updates to live website
- Secure and structured data handling via Firebase

Your Role

- Front-end Developer (Website)
- UI/UX Design
- Desktop App Development

- Firebase Integration
 - Content Management System (CMS-style admin tool)
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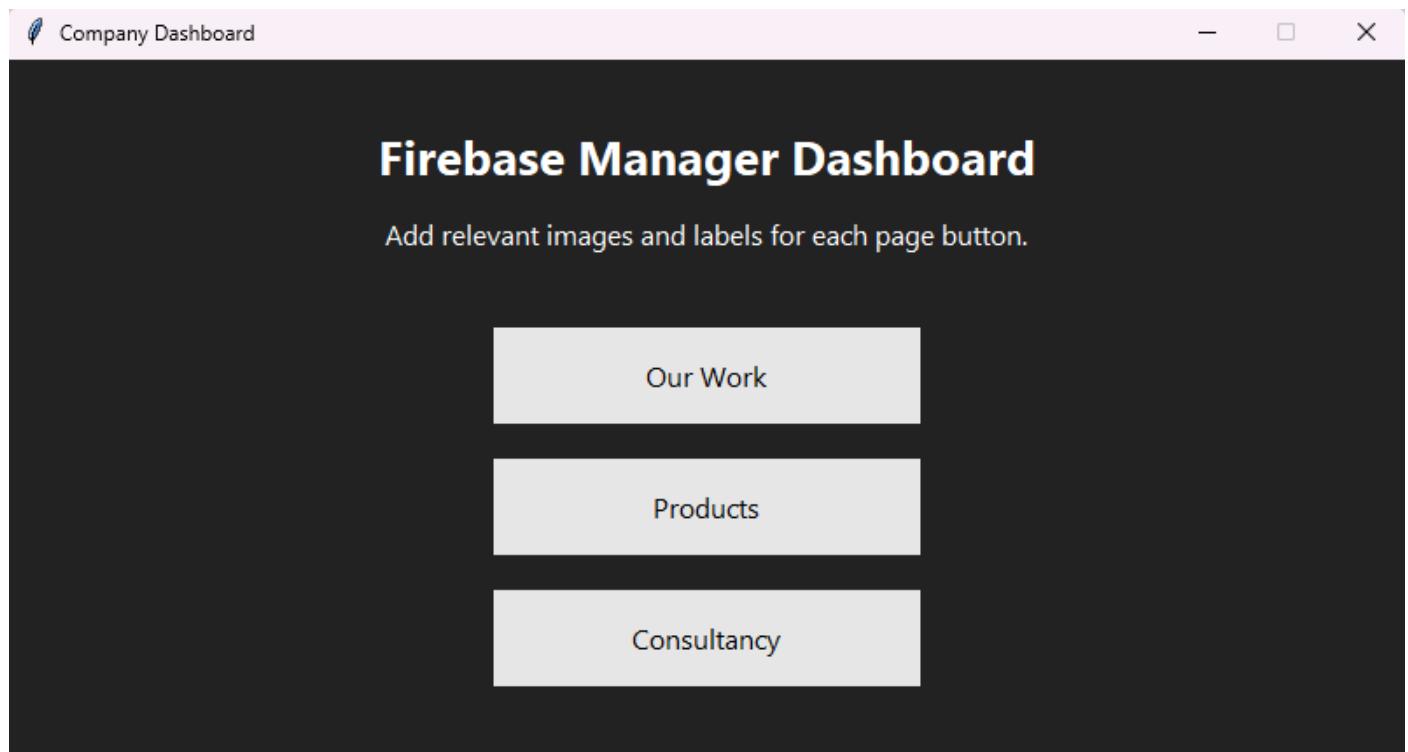
Core Features

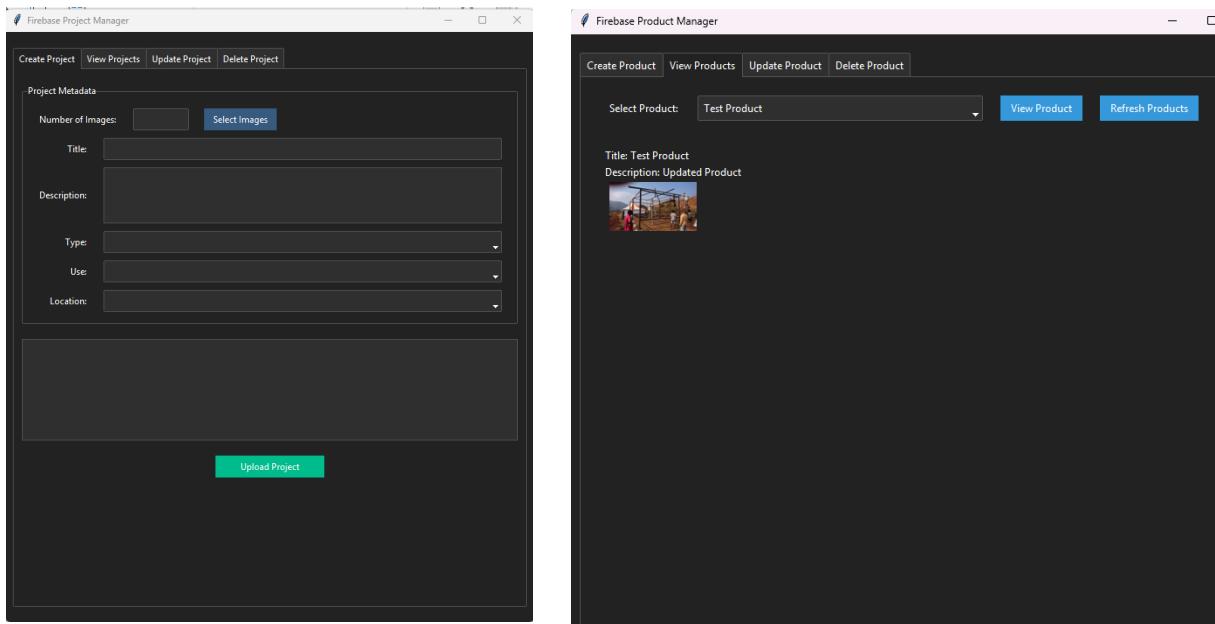
Website

- Homepage with hero section & visual banners
- Our Work / Projects listing
- Project detail pages with images & descriptions
- Products & Consultancy pages
- Contact form with email integration
- 3D canvas and animated visuals
- Fully responsive layout

Desktop Admin Dashboard

- Firebase authentication & management
- Project CRUD operations:
 - Add new projects
 - Upload multiple images
 - Edit titles, descriptions, type, use & location
 - Delete outdated projects
- Image upload & metadata handling
- Structured admin UI for non-technical users





Tech Stack

Frontend (Website)

- React (v19)
- Tailwind CSS
- React Router
- Three.js using @react-three/fiber & @react-three/drei
- lucide-react (icons)

Backend / Services

- Firebase (Firestore & Storage)
- EmaiUS (contact form emails)

Desktop Application

- Firebase SDK
- Desktop UI framework (custom dashboard UI)
- Firebase Firestore & Storage for real-time updates

Notable Components

- TensileCanvas.jsx – Interactive 3D canvas
- BackgroundVideo.jsx – Hero background video
- BannerImage.jsx – Media banners
- OurWork.jsx – Project listings
- ProjectDetail.jsx – Individual project view
- Products.jsx, Consultancy.jsx, Contact.jsx
- **Firebase Manager Dashboard** – Admin CRUD interface

How the System Works

1. Admin uses the **desktop app** to add or update project data.
2. Data is stored securely in **Firebase Firestore & Storage**.
3. Website fetches live data from Firebase.
4. Updates appear instantly on the website without redeployment.