

# Technov8 Project Documentation

## Overview

**Technov8** is an innovative technology company delivering digital solutions to help businesses scale, streamline operations, and engage users through modern web platforms and AI-driven tools.

This project serves as both a **functional prototype** and a **portfolio showcase**, highlighting:

- Full-stack web development
  - AI-powered customer support integration
  - UI/UX and product design
  - Modern, responsive web design
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## Founding Team

Technov8 is led by a team of co-founders with complementary skills:

- **Irechukwu Nkweke** – Co-Founder & Full-Stack Developer  
Responsible for backend development, AI integration, and overall system architecture.
  - **Williams Jones** – Co-Founder & UI/UX Product Designer  
Leads the design strategy, user experience, and front-end interface design.
  - **Other Co-Founders** – Contribute to business strategy, content creation, and technology vision.
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## Project Purpose

Technov8 is designed to:

- Demonstrate **end-to-end digital product development**

- Showcase **AI-powered customer support** using Groq LLM and FAISS vector search
- Highlight **UI/UX design** and **modern web development skills**
- Serve as a **portfolio-ready project** for collaborations, client presentations, and career opportunities

The project is fully functional and simulates a real tech company environment, making it a credible demonstration of technical and design capabilities.

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## Key Features

### 1. Responsive Landing Page

- Hero section with call-to-action buttons
- Services section with offerings
- Portfolio and contact sections

### 2. AI Chatbot

- Context-aware responses using FAISS vector search
- Natural language responses via Groq LLM
- Interactive chat interface for user inquiries

### 3. Document-Based Knowledge Retrieval

- HuggingFace embeddings encode company knowledge
- Vector search retrieves relevant information in real-time

### 4. Scalable, Modular Architecture

- Flask backend with REST API
  - Static assets separated into CSS, JS, and images
  - Easily extendable for additional models, features, and services
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# Technology Stack

- **Frontend:** HTML5, CSS3, JavaScript
- **Backend:** Python Flask
- **AI Integration:** Groq LLM, HuggingFace Embeddings, FAISS
- **UI/UX & Design:** Adobe XD, Figma, or similar tools
- **Version Control:** Git & GitHub