AI-Powered Styling Websites Assistant

Project Overview

This project helps developers design modern, responsive, and visually appealing websites using AI-powered agents.

Software & Hardware Dependencies

Python 3.9+, LangChain/LangGraph, Flask or Streamlit, OpenAI API, Tavily API. Minimum 8GB RAM.

Architecture

User Interface → Planner Agent → Searcher Agent → Writer Agent → Styled Output

Workflow

User input is processed through planning, searching, and writing agents to generate styling suggestions.

Agent Roles

Planner handles task breakdown, Writer generates styling solutions, Pipeline ensures smooth execution.

Outputs

CSS recommendations, UI/UX improvements, responsive layout suggestions.

Limitations

Dependent on APIs, limited real-time previews, complex animations require manual tuning.

Future Enhancements

Live preview, Tailwind support, accessibility checks, browser extension deployment.