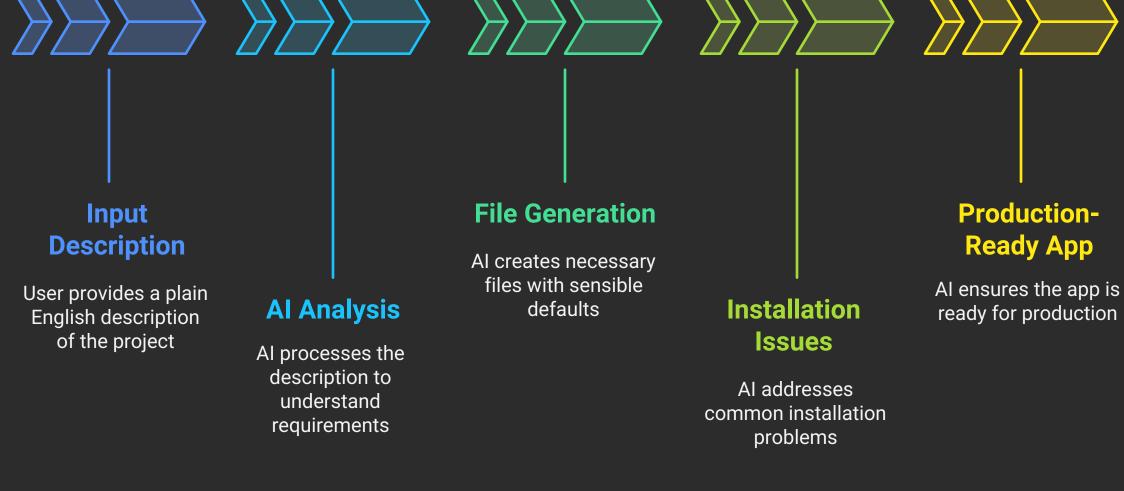
AlTalk: Automated React Project Generator

This document outlines the features and functionality of the AITalk tool, designed to automatically generate a modern, production-ready React application based on a plain English description. By leveraging AI, AITalk simplifies the project setup process, ensuring that all necessary files are created with sensible defaults, while also addressing common installation issues.

AITalk Project Generation Process



description using AI. This includes all necessary files, sensible defaults, and even auto-fixes

Purpose

for common npm install issues.

React Project Generation

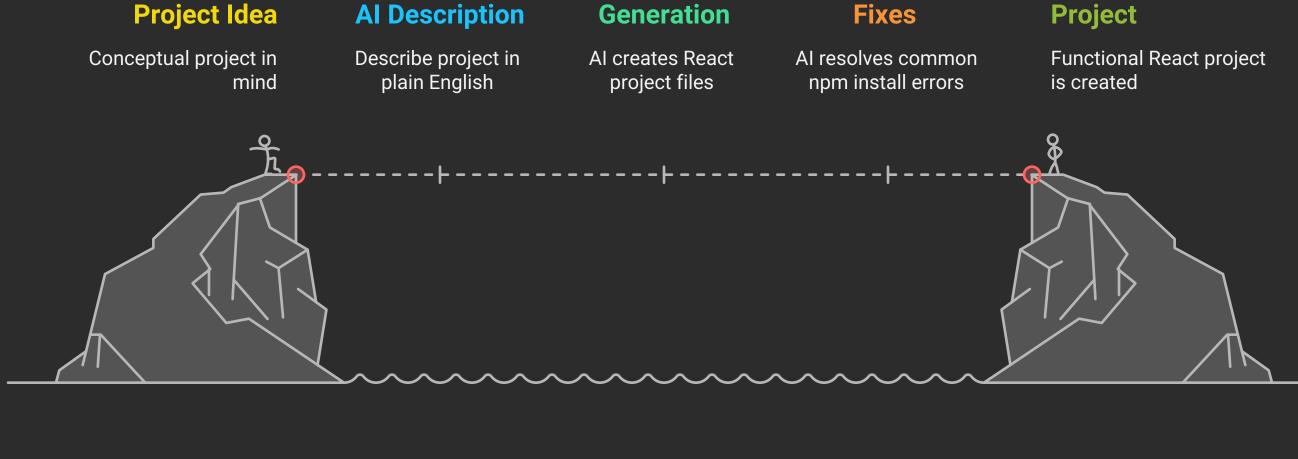
Project

Dependency

Production-Ready

Automatically generate a modern, production-ready React project from a plain English

Generation Al creates React

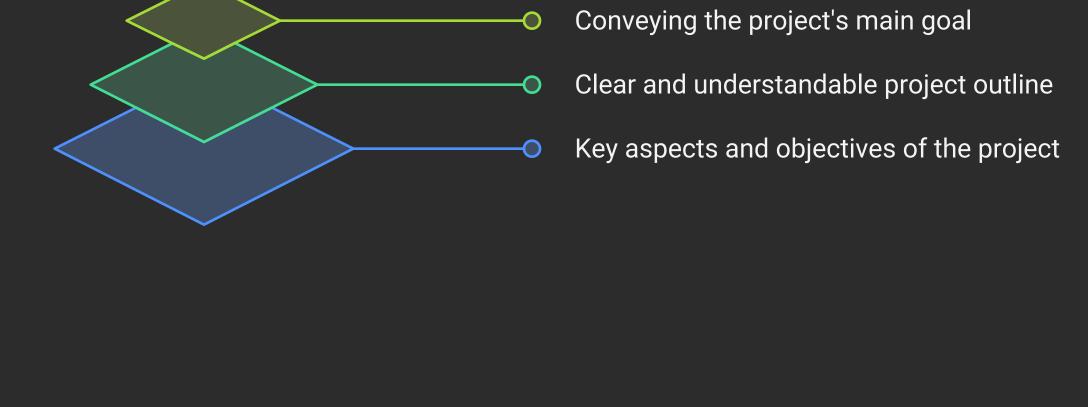


Usage

Project Description Pyramid

The argument is your project description in natural language.

Emphasizing the project's importance



"sales-dashboard").

How It Works

The AI is prompted to return a JSON array of all files needed for a modern React 18 app (e.g., ["package.json", "src/App.js", "public/index.html"]).

the full content—no markdown, just code/text.

File List Generation

Project Name Generation

File Content Generation For each file, the AI is prompted (with context of previously generated files) to generate

The AI generates a short, hyphenated project name from your description (e.g.,

Dependency Injection

File Writing Files are written to disk in a new project directory.

Git Initialization Runs git init, adds all files, and makes an initial commit.

Dependency Installation Runs npm install in the project directory. If npm install fails, the error and package.json are

sent to the AI for auto-repair, and npm install is retried.

Ensures react-scripts and a start script are present in package.json.

Project Startup

File Content Generation

Runs npm start, and if port 3000 is busy, auto-confirms running on another port.

AI-Driven React Project Setup

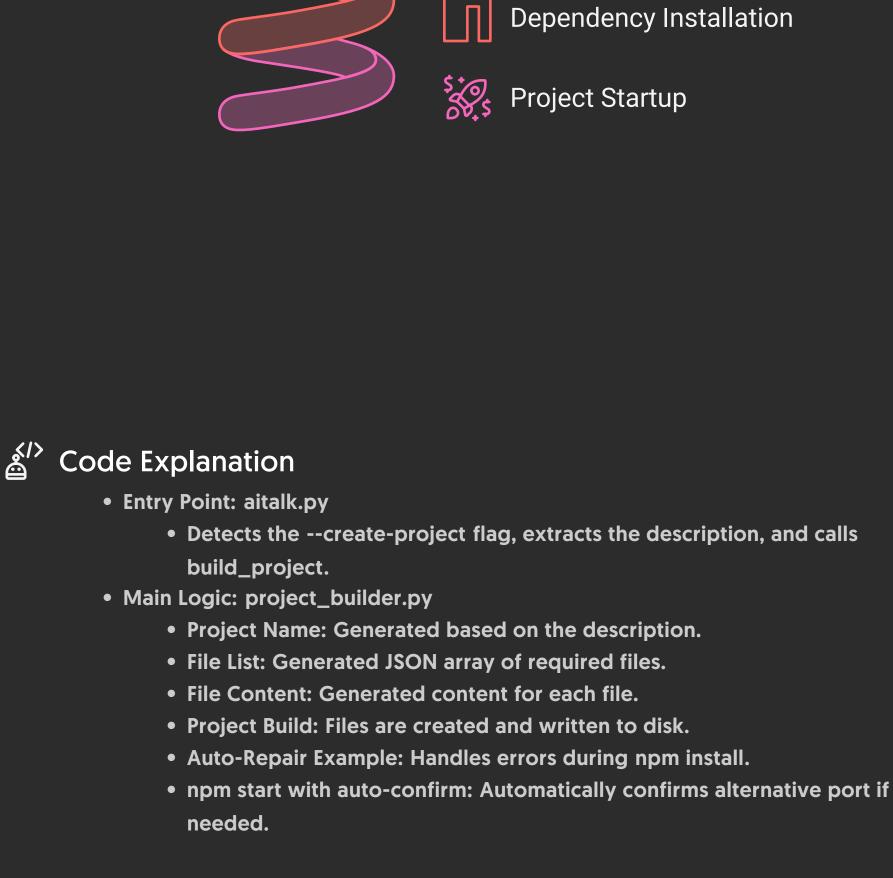
File List Generation

Dependency Injection

Git Initialization

File Writing

Project Name Generation



Building a React Project

Automatically confirms an alternative port if the default is unavailable.

Handles errors during dependency installation, ensuring smooth

setup.

structure.

Produces the content for each file in the project.

Creates and writes the files to disk, completing the project

