

Project Components

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Team ID	SWTID1720074725
Project Name	CodeXchange: An AI-Powered Code Translator Tool

Modules and Components

1. Streamlit [1.10.0]

Streamlit is an open-source Python library designed for creating interactive, web-based applications specifically for data science and machine learning projects. It allows developers to build and deploy apps quickly with a simple and intuitive API, making it ideal for prototyping and sharing results with others

2. Google-generativeai

Google Generative AI is a suite of artificial intelligence models and tools developed by Google to facilitate the creation and deployment of AI-driven solutions. These models leverage advanced machine learning techniques, such as deep learning and transformer architectures, to generate human-like text, translate code between programming languages, create visual content, and more

3. Altair [4.0]

Altair is a declarative statistical visualization library for Python, based on Vega and Vega-Lite visualization grammars. It is designed to be simple, friendly, and consistent, making it easy to build a wide range of statistical visualizations with minimal code

4. Python-dotenv

Python-dotenv is a Python library that allows you to read environment variables from a .env file. It is useful for managing configuration variables, especially sensitive information like API keys, database credentials, and other configuration settings that you don't want to hard-code into your application