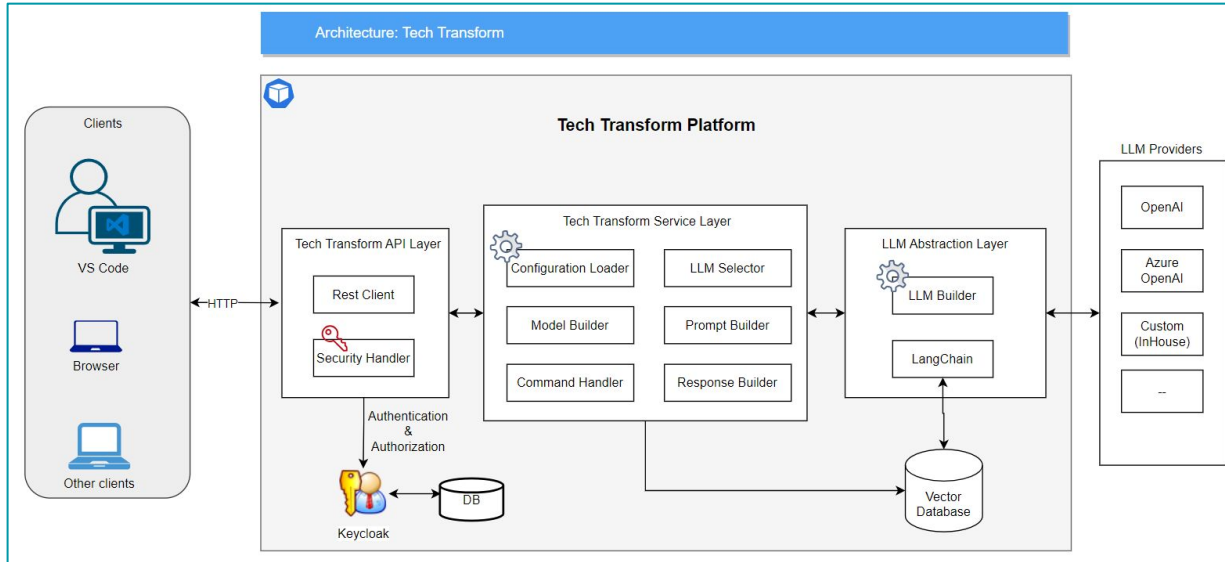# TechTransform GenAI Accelerator Overview

Objective - Build and modernize AI apps in a new way utilizing Generative AI technologies (assess, code conversion, code documentation, unit testing, code refactoring and optimization) within a target/ greenfield cloud account with consistency and a significantly reduced turn around time of weeks instead of months. TechTransform leverages LLM models that are proven to give accurate results along with a service and prompt engineering processing layer that handles the complexities of code modernization from the end-user. This allows enterprises to quickly pilot or proof-point a subset of their legacy estate to gauge the results, identify stabilization elements and create an overall blueprint for phased modernization

Architecture: Tech Transform

Tech Transform Platform

Clients

VS Code

Browser

Other clients

HTTP

Tech Transform API Layer

Rest Client

Security Handler

Authentication & Authorization

Keycloak

DB

Tech Transform Service Layer

Configuration Loader | LLM Selector
Model Builder | Prompt Builder
Command Handler | Response Builder

LLM Abstraction Layer

LLM Builder

LangChain

Vector Database

LLM Providers

OpenAI

Azure OpenAI

Custom (InHouse)

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ROI/ Time to Value
ROI will occur upon each use. Value realization for qualified use cases will become faster and easier. Qualified projects will ramp quicker, more consistent and with higher quality.

Technology Stack
Azure: Azure OpenAI, ADO, Azure Container Registry, Keycloak IAM, Azure SQL for Postgre, Azure Kubernetes, Azure Blob Storage, Azure Monitor

Use Case - The TechTransform GenAI Accelerator can be used by GL Dev teams as-well-as GL Clients to rapidly assess and modernize legacy applications and systems. Perfect match uses include Clients\Dev-Teams that want pilot or proof points on a sample subset of their legacy estate to quickly identify RoI