General Architecture of the Application

- **Client Application:** Java Application containing the graphical user interface (Swing) and an http-Client for communication with the proxy/database.
- **Proxy**: A Spring-Boot Application providing an REST-Api for the client application and a Jakarta Persistence API for object-relational mapping and communication with the database. The Application will be transformed into a Docker image and hosted as a Container Instance on Azure using the Azure Container Registry as a reference point.
- **Azure SQL Server:** A Relational SQL database hosted on azure containing the relevant tables for persisting the applications's data.

Jakarta Persistence API

REST-API

Proxy

Azure Container Instance

Result-Set

Azure Container Registry

HTTP-Request

SQL

Azure SQL Databae

JDBC

Docker Image

HTTP-Response

Client application

JAVA Swing

Spring-Boot Application with REST-API