Some sort of J2EE application – Interacts using protobuf and netty. Message exchange using protobuf, queue control, management etc. using netty.

C++ image processing libraries

Python/C++ client that does the exact same thing as Java.

Java Client that sends an image and location details and other such details

Java and Python interface?

JPA to access DB

MySQL/PostGreSQL for storing user information

PostGIS – For storing GIS information.