Following will be the micro-services based setup

Person Service

PersonService.create(payload)
PersonService.retrieve(person_id)
PersonService.retrieve_all()

Udacity Web UI

PersonService (GRPC)

GetAllPersons

Udaconnect Monolith Service (REST)

ConnectionService.find_contacts()
LocationService.retrieve(location_id)
LocationService.create()
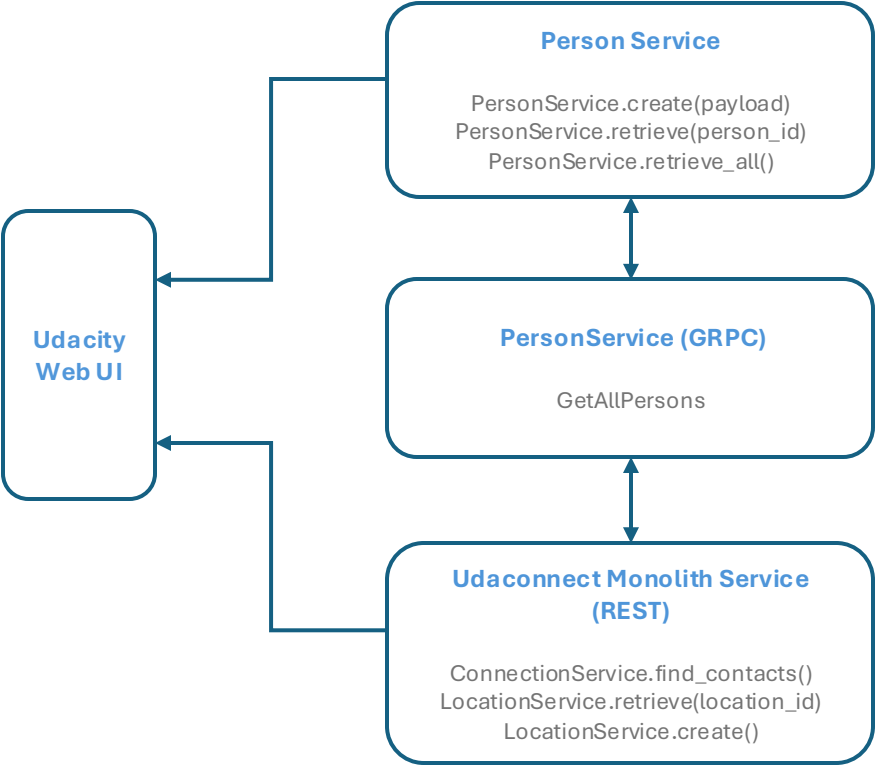
Reasons why the following micro-services are chosen:

- Person service was easy to decouple and needed less time as timeline and budget was a constrain this seemed reasonable option.
- In the monolith setup there was direct dependency on the Person service code, to decouple we used grpc, as this is an inter service call and with grpc it will be easy to build and support.

Person Service

Creat → Kafka

Kafka → Kafka Topic Poller

Retrieve ← Kafka Topic Poller

Kafka Topic Poller → Database

Retrieve All ← Database

- As entry of data to the table is not needed immediately I used Kafka.