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DISCUSS ON STUDENT HUB >

UdaConnect

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Even though the previous reviewer has passed the rubric of diagram, I would still encourage you to take a look at the suggestions and fix it accordingly.

Great job, you are ready to go! @Clearly, you have acquired all the important concepts from this project. Wish you all the best for the upcoming projects! Tip: If you are interested in knowing more about kafka usage, I encourage you to read this introduction. Also, you could learn some valuable insights of using gRPC from reading this experience sharing

Architecture Design

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Each module includes a 1-2 sentence justification for the module design choice either as a label on the design diagram or in a separate document

The justifications indicate that the decisions about the chosen protocols and technologies are based on business requirements including required scale. Your supervisor wants to be able to launch this project in 2 weeks with a limited budget. At the same time, the project needs to be able to scale to handle large volumes of location data being ingested.

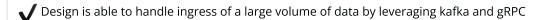
The project is designed as an MVP and does not include any unnecessary features

- · Cost and development time are minimized
- · Services should run in containers
- Design should be able to handle ingress of a large volume of data

Good reasons are provided! The proposed architecture correctly reflects

Services are correctly splitting into multiple services including

- Api
- Kafka consumer/producer
- Location api



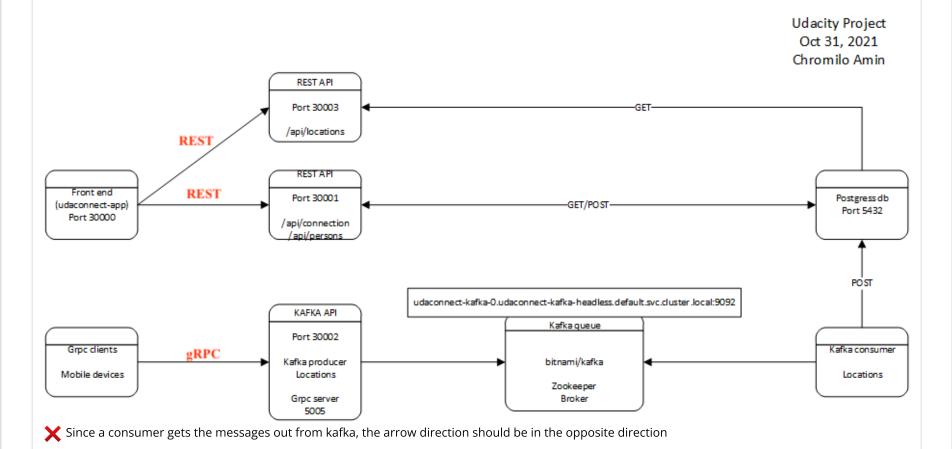


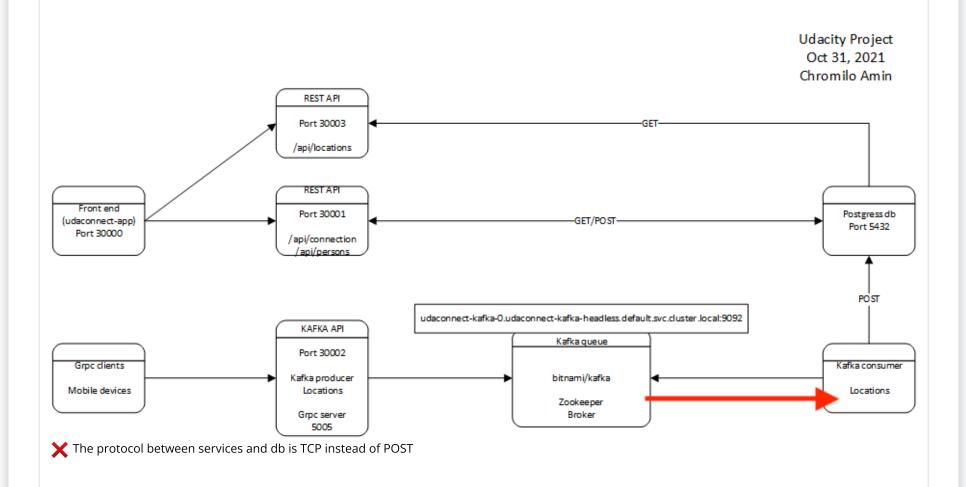
Architecture diagram shows the design of the system as individual services. It should show the relationship between the frontend, API's, databases, and Kafka.

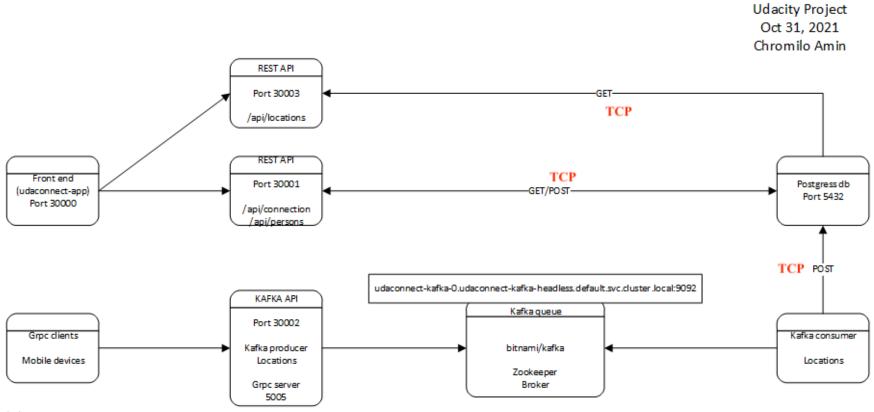
Arrows or lines connect the individual services to represent request/response relationships between services.

All of the necessary services and protocols are included as modules in the architectural design

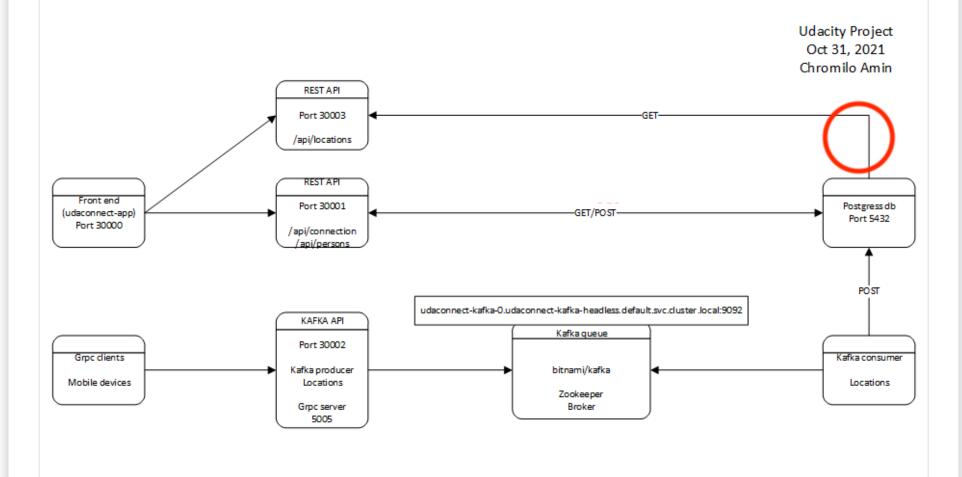
- √ The relationships between API and database are specified
- √ The relationship between API and kafka are specified
- X Please specify the protocols between each service







X According to your location api implementation, the service can do both read/write operations to the db. So you should use bidirectional arrow instead of unidirectional arrow.



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```
@api.route("/locations")
@api.route("/locations/<location_id>")
@api.param("location_id", "Unique ID for a given Location", _in="query")
class LocationResource(Resource):
    @accepts(schema=LocationSchema)
    @responds(schema=LocationSchema)
    def post(self) -> Location:
        request.get_json()
        location: Location = LocationService.create(request.get_json())
        return location
    @responds(schema=LocationSchema)
    def get(self, location_id) -> Location:
        location: Location = LocationService.retrieve(location_id)
        return location
```

Microservice Development



Services are deployable with Kubernetes through Kubernetes Deployment 's and Service 's

- √ Good job providing kafka consumer image
- ✓ Good job providing kafka producer image
- ✓ Good job providing frontend service image
- ✓ Good job providing location api image
- ✓ Good job providing api image

AME	READY	STATUS	RESTARTS	AGE
daconnect-zookeeper-0	1/1	Running	2	3d1h
afka-api-655c8d7859-jhpf6	1/1	Running	0	25h
ostgres-5f676c995d-c5b9d	1/1	Running	15	42d
afka-consumer-7d76dccc79-lnhv8	1/1	Running	3	11h
daconnect-app-f7bd98cc5-sx852	1/1	Running	0	22h
daconnect-kafka-0	1/1	Running	6	3d1h
daconnect-api-6b9949688b-fsl27	1/1	Running	0	8m19s
daconnect-location-api-7f4c4bb6b6-p5sqn	1/1	Running	0	14s

~

• Kubernetes deployments use Docker images built from the students' final solution and not from the starter code.

services are appropries with numerineses an ough numerineses peptoyment is and service is.

All the docker images are built from your solution, well done!

Message Passing



- Project implements a Kafka queue in a container in a Dockerfile or Kubernetes deployment file. This can be configured manually in a base image or using a pre-built Kafka Docker image.
- requirements.txt file installs the kafka-python Kafka library.
- kafka deployment runs successfully without errors.

✓ Kafka queue container is specified in Kubernetes deployment file

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✓ The required kafka-python package is correctly specified in requirements.txt

✓ kafka can be deployed without any errors

- Project contains a *.proto file showing that they mapped a message and service into a protobuf format. The *.proto file should have at least one message and one service declared in it.
- Code should contain a *_pb2 and *_pb2_grpc file generated from the *.proto file.
- Project contains a gRPC client. If using Python with the standard grpc library, code should open a gPRC channel.
- Project contains a gPRC host. The standard gprc library code should contain a grpc.server() instantiation.
- requirements.txt file should define the grpcio package.
- √ Required message and service are implemented
- ✓ Required pb2 files are correctly generated.
- ✓ Required grpcio is correctly defined in requirements.txt
- ✓ Required grpc channel is open
- Required grpc server is initialized

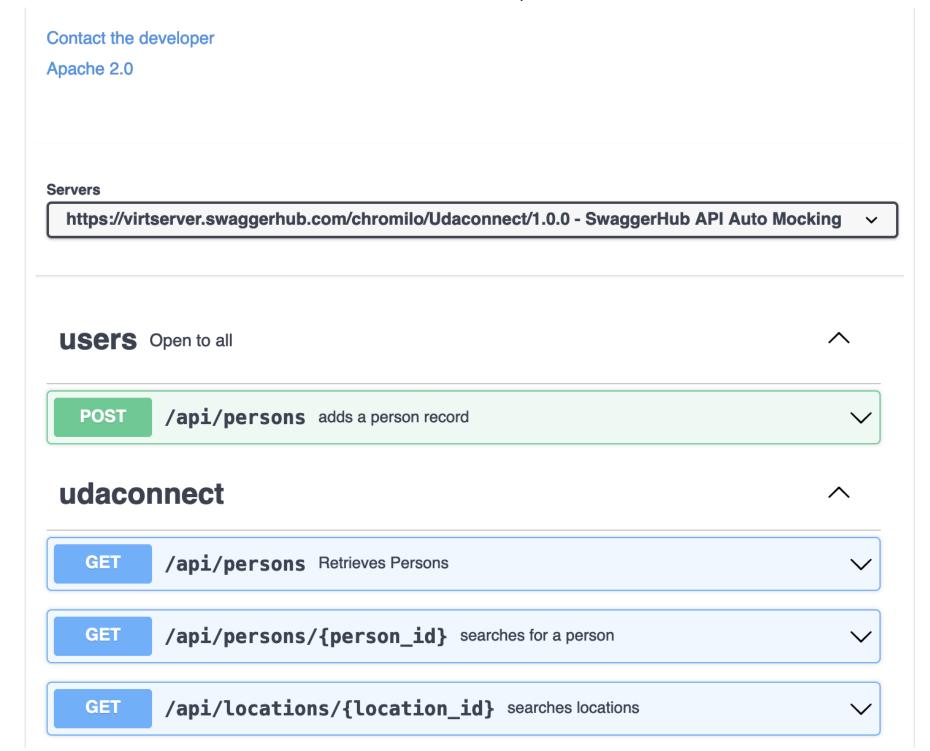
- Project either created a new API endpoint(s) or a modification to existing Flask API.
- All new API endpoints use proper HTTP request types.
- GET or DELETE request does not contain an HTTP payload
- REST API's have live Swagger documentation in an external library (or manually written an OpenAPI spec.
- ✓ All API endpoints use proper HTTP request types.
- ✓ There is no payload needed for GET
- ✓ Required Swagger doc is provided.

Udaconnect REST APIs 1.0.0 OASS





Udaconnect Person, Connection, Location API



Code Quality

Project runs without error

Code is appropriately documented. Comments are concise, relevant and not excessive

Code is neatly written with proper indenting. Python code follows PEP 8 guidelines.

✓ Project runs without error

✓ Code is clean and easy to follow



RETURN TO PATH

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