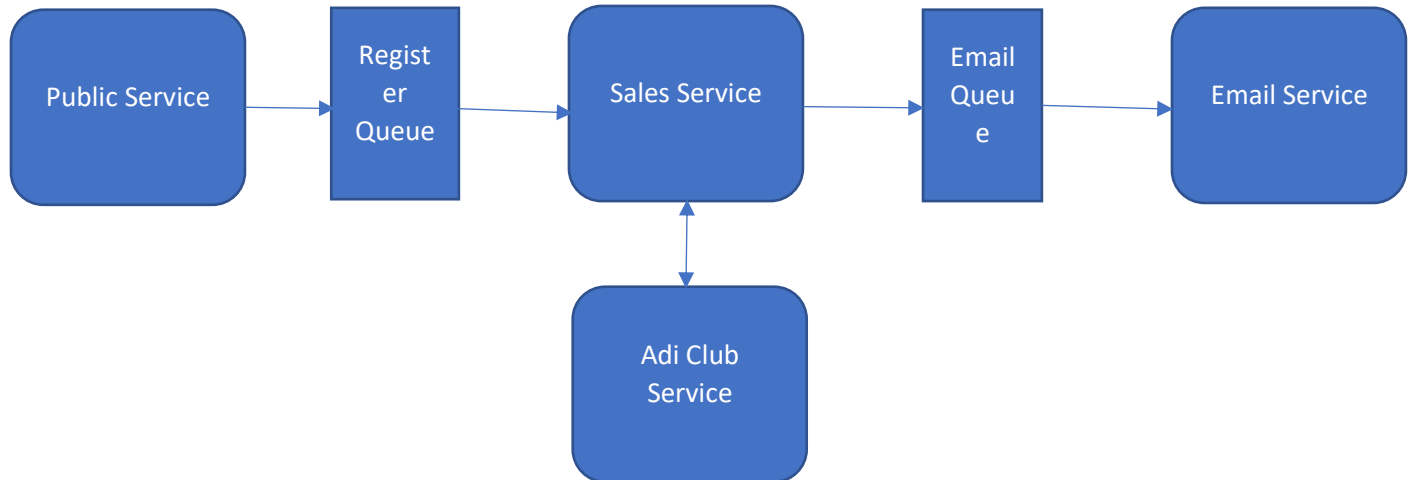
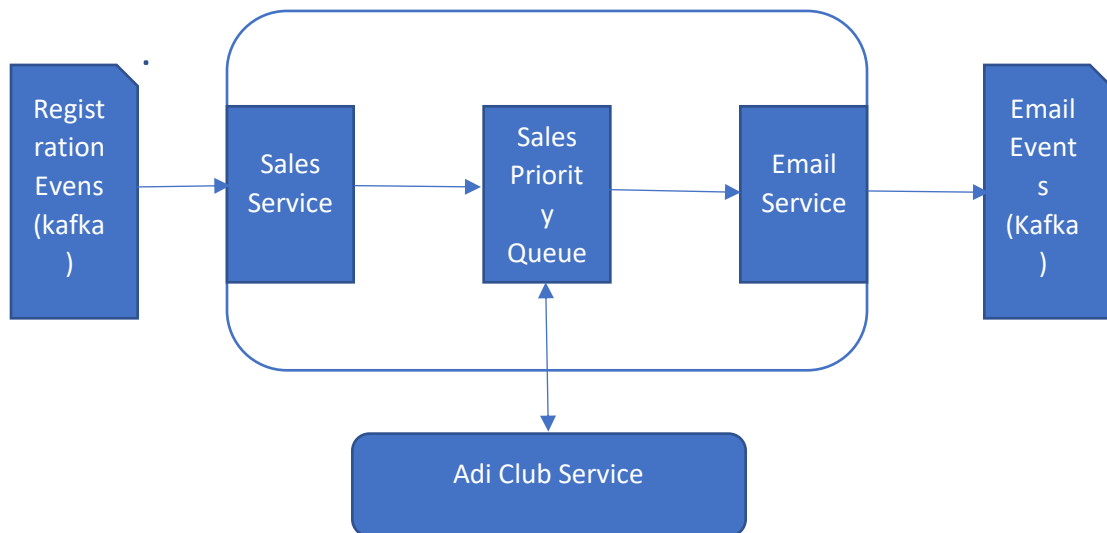


Design and Deployment Document

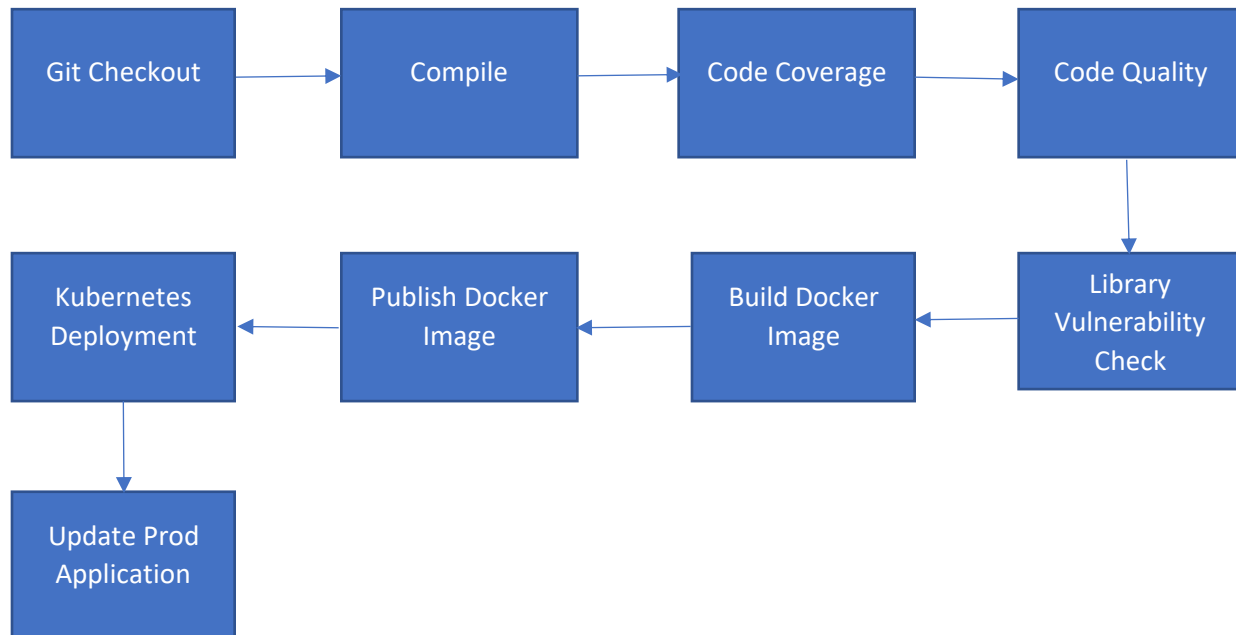
1. Context Diagram



2. Detail Interaction Diagram of Sales Service



3. CI/CD Diagram



4. Future Scope

This application has two points of failure.

- If Adi Club service goes down.
- If Priority sales service(member-service) goes down, itself

Solution

- If Adi club service is not available, we can store the email for registration with time stamp and start registration once service is up along with the winner logic correction
- As soon as priority sales service is down, we will lose the existing priority sales queue. To solve this, we can use a look up database or serialized and deserialize the priority queue. Preferably we can use look up db.

5. Prerequisite to Run

We need to create two topic the Kafka, below are the commands:

```
docker exec broker kafka-topics --bootstrap-server broker:9092 --create --topic registration-events
```

```
docker exec broker kafka-topics --bootstrap-server broker:9092 --create --topic email-events
```