

User stories

fleet-telemetry

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US1: Fleet monitoring (base)

As a **fleet-operator admin**,

I want to **view the current information of all the trucks on a map**

So that, **I know my business is running smooth**

Criteria-1 (functional)

Given, **a Track (set of lat/long) from source to destination**

When, **a new Truck is added to the fleet**

Then, **I can see the Truck traveling the path on the given track**

Criteria-2 (functional)

Given, **a Truck**

When, **a new Truck is added to the fleet**

Then, **I can see who the driver is, and his/her current position**

US2: High availability

As **operations head**,

I want to **have high availability of the backend services**

So that, **I can ramp up my business quickly by adding more Trucks**

Criteria-1 (non-functional)

Given, **an infrastructure in the cloud (i.e a single GKE cluster)**

When, **1000s of Truck is added to the fleet**

Then, **it should scale seamlessly to handle the generate telemetry load**

US3: Geo Latency & Proximity routing

As a **fleet-operator admin**,

I want the trucks to send telemetry information to the nearest datacenter

So that, I get accurate, and timely status of 1000s of Trucks with min latency

Criteria-1 (non-functional)

Given, that a “browser-refresh” will simulate an e-Sim on the vehicles’ OBD

When, the fleet-telemetry app is accessed from **Mumbai**

Then, I can see the Traffic coming to Mumbai GKE Cluster

Criteria-2 (non-functional)

Given, that a “browser-refresh” will simulate an e-Sim on the vehicles’ OBD

When, the fleet-telemetry app is accessed from **Delhi**

Then, I can see the Traffic coming to Delhi GKE Cluster (via Kiali/Pod-logs etc)

US4: Single IP

As a **fleet-operator admin**,

I want to access the application via a single URL

So that, I can share the domain URL with my “business people”

Criteria-1 (non-functional)

Given, 2 GKE clusters (Mumbai, Delhi regions)

When, the application & database is hosted on both Sites,

Then, I must only only access the application via single URL / IP

US5: Disaster Recovery Site

As operations head

I want to have a capability to execute a BCP to failover

So that, my business doesn't suffer downtime.

Criteria-1 (non-functional)

Given, 2 GKE clusters (Mumbai, Delhi regions) &

Trucks are traversing the defined track from **point-A** to **point-B**

&

It leaves a trail.

When, at **point-C**, disaster strikes in **Mumbai** region

Then, ALL the subsequent request should be handled by **Delhi** &

The Maps should continue to show the trail from **point-C**

US6: Cross site database replication

As a **database administrator**,

I want the application database to synced in real time between

So that, I can execute a BCP in case of disaster and meet my RPO requirements
(under 15 mins)

Criteria-1 (non-functional)

Given, a static track info in a Table (Tracks)

When, Truck starts moving

Then, it commits the current-position (lat/long) to the primary database &
all those commits are also synced to the DR database in **real-time**.