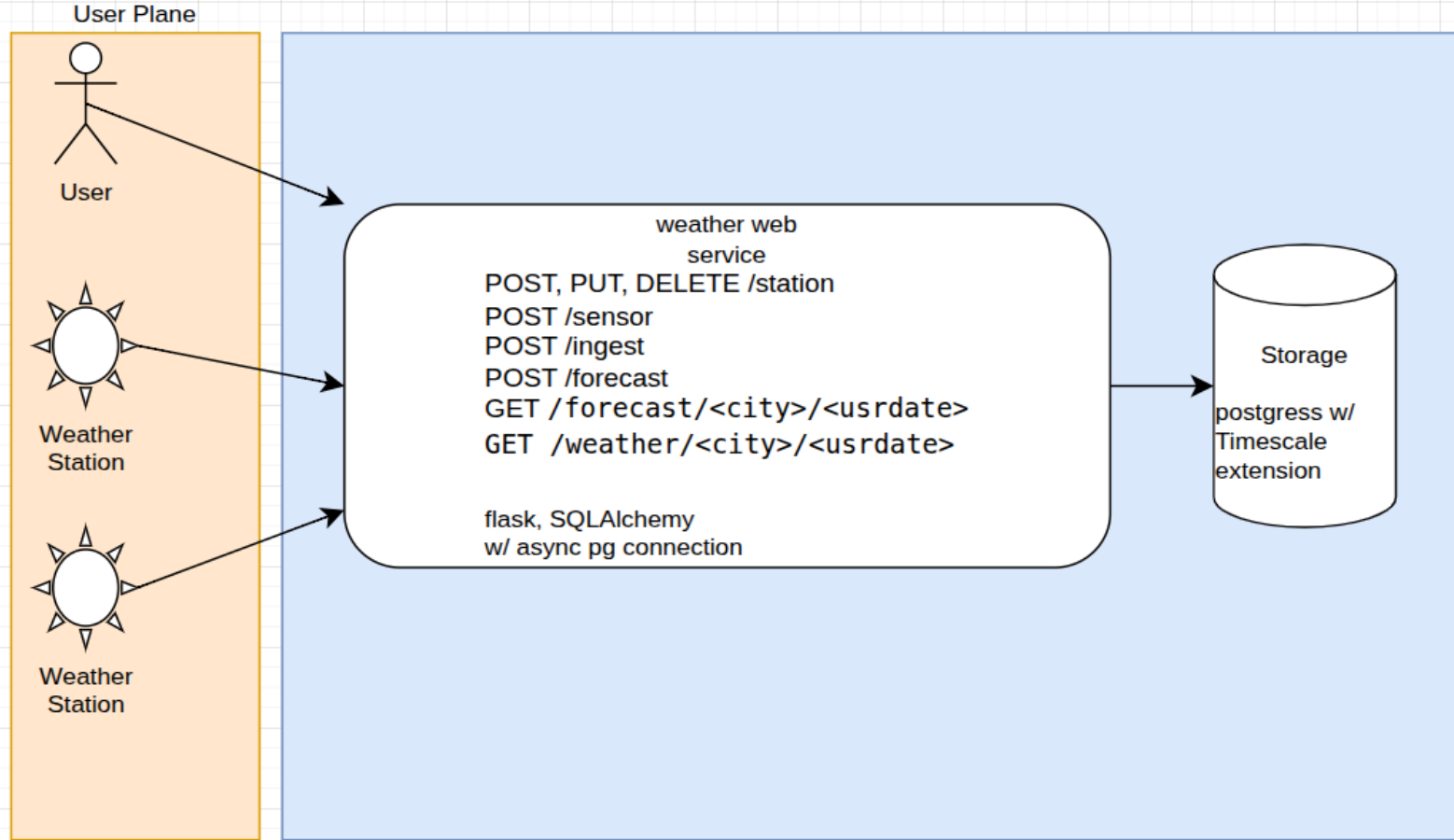


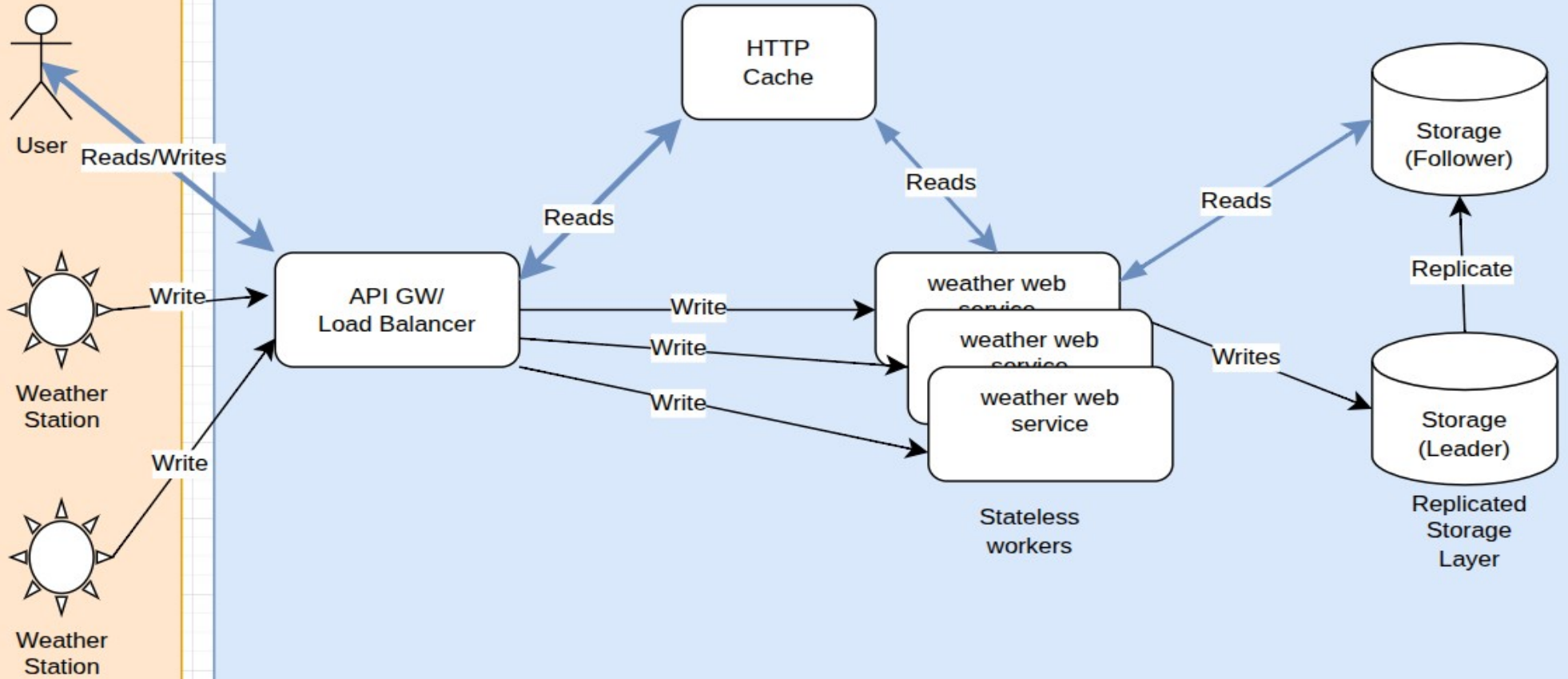
Weather WEB App

MVP Architecture



Scaled Up Architecture

User Plane



Scaled Up Architecture (Event Driven)

User Plane



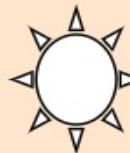
User

Reads/Writes



Weather
Station

Write



Weather
Station

Write

API GW

Message
Broker

HTTP
Cache

weather web
service

weather web
service

weather web
service

Stateless
workers

Storage
(Follower)

Replicate

Storage
(Leader)

Replicated
Storage
Layer

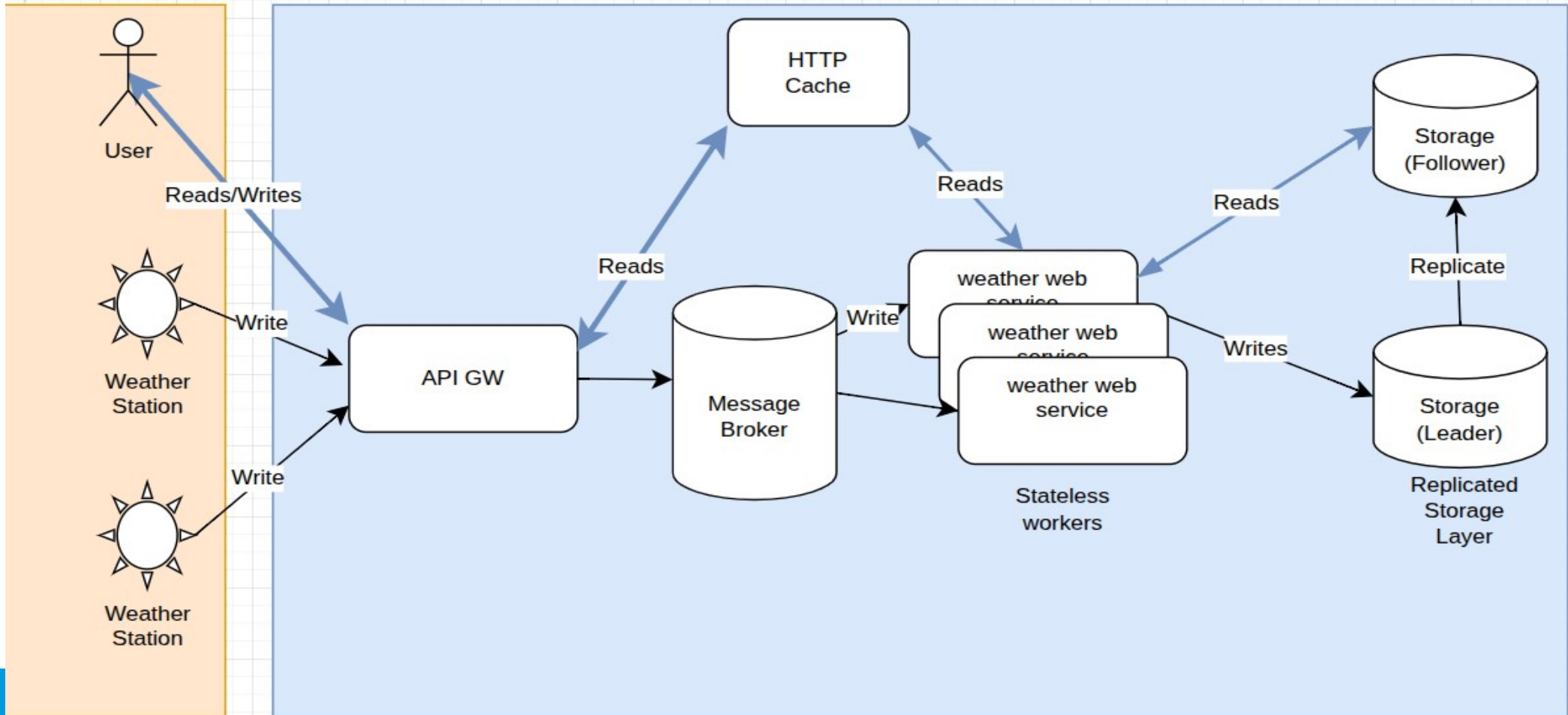
Reads

Reads

Reads

Write

Writes



DB Schema

measurement (Timescale hypertable)	
PK, FK PK	<u>sensor_id</u> <u>date</u>
FK	station measurement_id category measurement unit

station	
PK	<u>code</u>
	city latitude longitude date_install

sensor	
PK	<u>id</u>
FK	station_code category

forecast	
PK	<u>UniqueID</u>
	Row 1
	Row 2
	Row 3