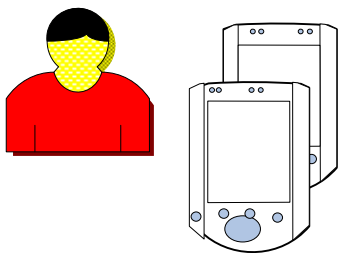**Mobile Users**

Queries

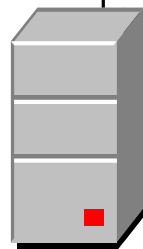**Results**

Use case 1: find all the gas stations within 10 miles with gas price cheaper than $3.00 (USD).

Use case 2: find k nearest gas stations with gas price cheaper than $3.00 (USD).

Geo-Store

LBS Provider

Main Indices

Query Parser and Planner

SPO
SOP
PSO
POS
OSP
OPS

Dictionary Decoding (B$^+$-tree)

GeoHilbert Transfomation (Hilbert curve)

Discriminative Encoding (B$^+$-tree)

Spatially Aware Mapping

Internal Processing

Geo-Store

RDF Data with spatial features