# BIN SENSORS

## Client: Argentinian Entrepreneur

Tech Group: .NET Framework, Angular JS, Bootstrap, HTML 5, CSS3, Sql Server y Windows Servers

**They needed:** Web portal to manage bins filling status across the city, plus a mobile app to advise the garbage truck drivers which bins have to be emptied and which is the shortest way to reach them all.

We developed a full REST API backend. Also a web portal to track the bins, add drivers and collect statistics to make fuel consumption and driving time efficient.

We also developed a mobile app for the drivers. Integrated with Google Maps, it allows them to find the shortest way to go around the city by only managing the full bins. The filling status is reported by devices placed into the bins, using ultrasound to check the empty space top-to-bottom of the bin.

- 50 K fuel gallons saved in truck driving the last year
- 25 K driving hours saved in the last year
- 12 garbage collector companies using this technology in 5 cities

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