

[Touch'n Locate Demonstration](#)

Touch'n Locate demonstration

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### **Short description**

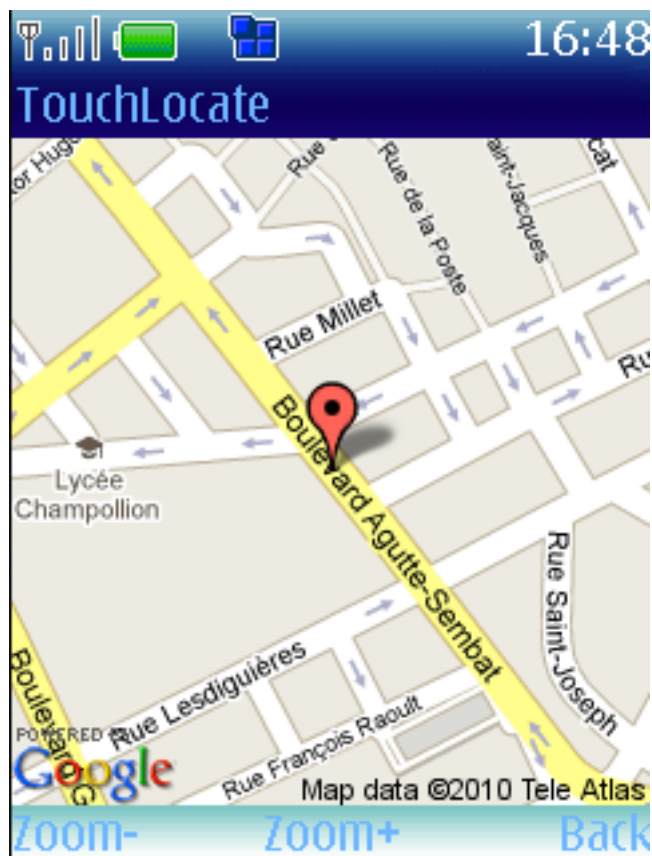
This demonstration presents the usage of NFC phones and RFID tags to present locations and associated points of interest to the user.

This demonstration is based on the [Team TouchKey](#) code.

#### 1.1. User documentation

After touching a tag, the user can :

- View the location on Google Map

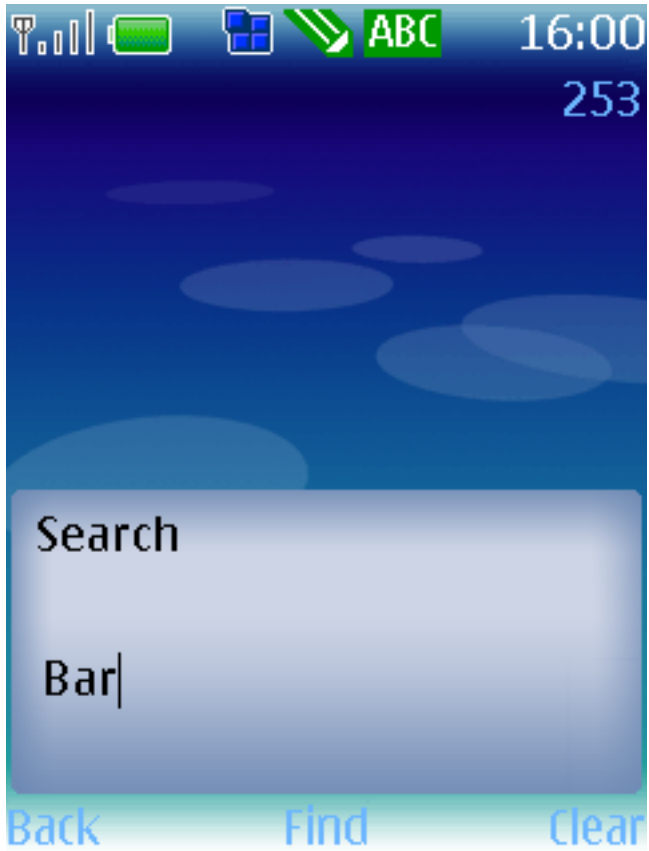


- Reverse geocode the GPS coordinates to transform in a readable address

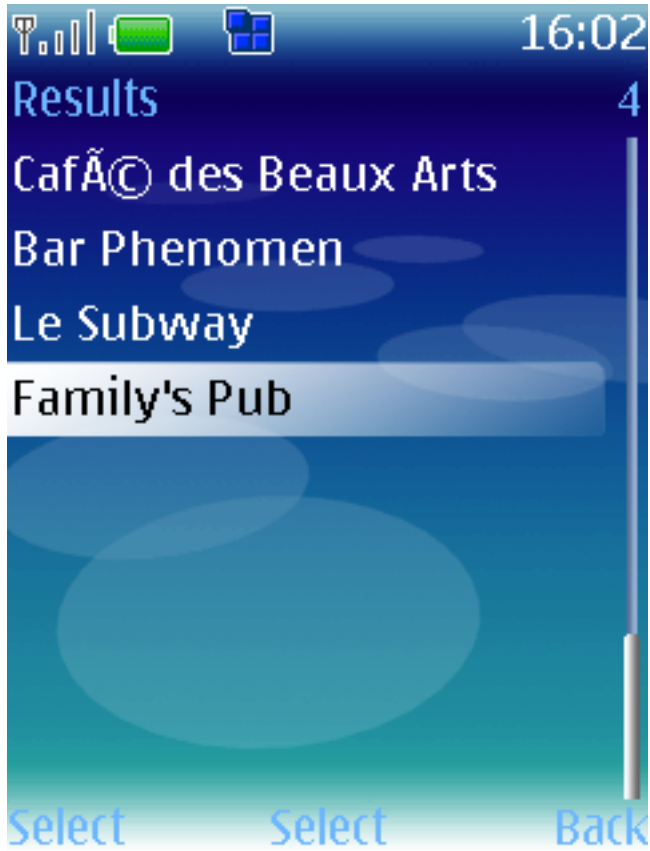


- Search for points of interest near the embedded location

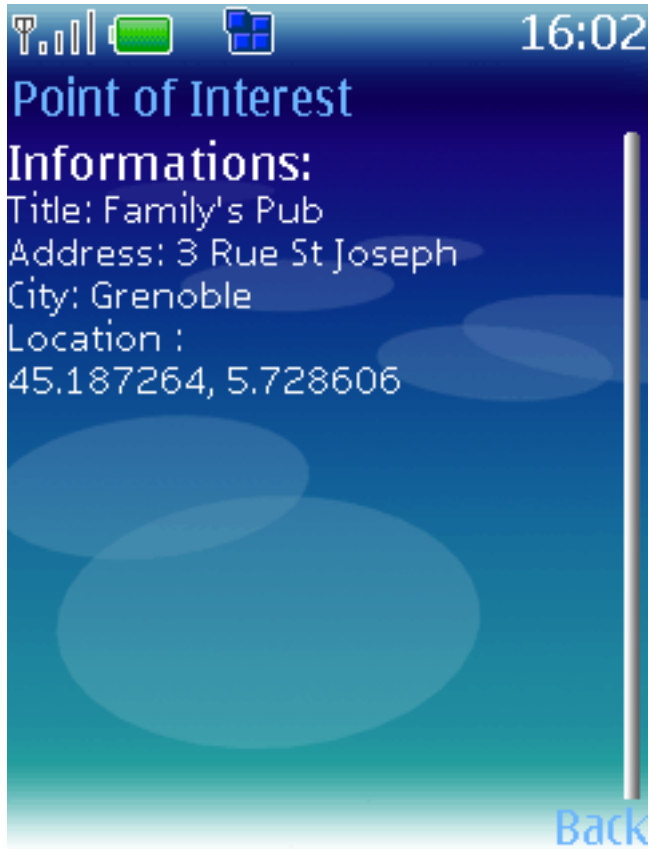
By entering key words...



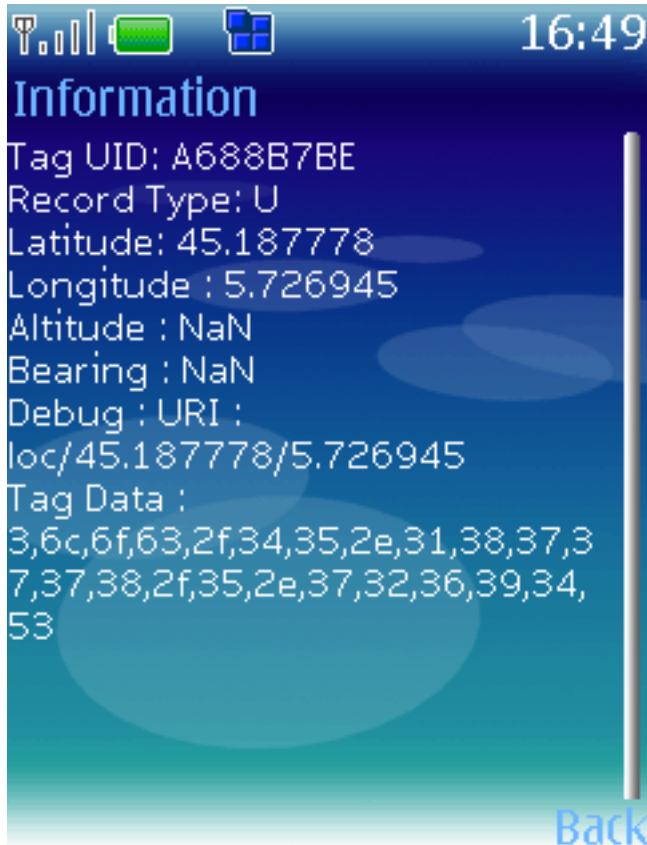
... then selecting a result ...



... and finally by reading the point of interest details :



- [View the tag data](#)



## ***Technical documentation***

Locations can be stored in two different ways :

- in a Locate record type : urn:nfc:wkt:L
  - fields are stored in their binary representation
  - fields order : latitude, longitude, altitude, bearing
  - This record type is smallest possible one
- in a URI record type : urn:nfc:wkt:U
  - URI format : <http://loc/latitude/longitude/altitude/bearing>
  - This record type can be written directly by most NFC devices

Altitude and bearing fields are optional.

## ***Dependencies***

- [Team TouchKey](#) code for Google Map interactions
- [JSON for JavaME](#) for JSON results parsing.

## ***Tips for future improvements***

- Cache maps in memory, to bring them back faster
- Improve the points of interest search area

[Touch'n Locate Demonstration](#) (en)

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