## Where am I?

**Location Awareness Application -**

Geolocation is process of finding the actual physical location of a user of an object like mobile phone or PC connected to the Internet.



#### **Geolocation Methods**

- 1. getCurrentPosition: This get the current location of the user
- 2. watchPosition: This used to get the position of a user over a period of time as the location changes. The success callback function will be called anytime the location changes.
- 3. clearWatch: this is used to stop the watchPostion() method. The watchPosition method returns an ID for every location information retrieved, that ID is called as a parameter in the clearWatch() to stop or clear the watch.

## **Location Awareness Technologies**

1 - MaxMind: Every computer on a network has a number that identifies it: its IP address. The Internet is nothing but a massive network, and your IP number is assigned to you by the service provider that you have used to connect to that network. Because the numbers that service providers assign change from one geographical location to the next (much like telephone numbers), you can make quite a good estimate of where your visitors are from.

2 -HTML5 Geolocation API:

With HTML5 geolocation, it is good practice to check the current browser/platform the user is opening the webpage on. If the browser does not support geolocation, a popup message will display informing the user that the browser does not support HTML5 location awareness. Geolocation API is device agnostic, it real don't care how the device retrieves the location information, it could use the information from 3G triangulation, GPS, the IP tracking or prompting the user to enter estimated location details.

	Field Name	Value
	IP Address	149.170.253.100
<b>✓</b>	Country	United Kingdom
	City & Region	Crewe, England
	Latitude & Longitude (City)	53.09787, -2.44161
	ZIP Code	CW1 2EZ
	ISP	Manchester Metropolitan University
	Domain	mmu.ac.uk
	Time Zone	+00:00
	Net Speed	СОМР
	IDD Code & Area Code	+(44) 01270
	Weather Station	Crewe (UKXX0228)
	MCC, MNC & Carrier Name	-
	Elevation	59

Start Tracking

Stop Tracking

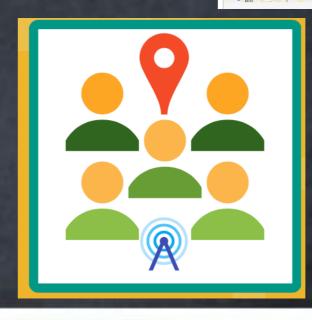
Your current location coordinates are:
Longitude = -2.2390512
Latitude = 53.4709588
Altitude = null
Accuracy = 71
Accuracy Altitude = null
Direction = null
Speed = null
Timestamp = 1486058952972
We collected location information at 06:09:12 PM

# Welcome to a tour of our new features

# IRM Requirement Spec Implementation-

Introducing Objective 3:

# Google Geolocation API



### **Information retrieved**

Timestamp
Coordinates (coords)
Latitude

Longitude Altitude

Accuracy
Altitude Accuracy

Heading Speed

## Importance Geolocation API Functions

- ✓ Point of interest
- ✓ Display turn by turn navigation
- ✓ Display journey information like for example distance covered and long is left to get to a destination.
- ✓ Suggests the near by attraction or refreshment
- ✓ Keeping track of physical activity

- ✓ Set reminders based on your current location
- ✓ Identify/locate other users with same interest
- ✓ Personalize web pages with local time, weather forecast, languages based on user location, local advertisements and promotions (jobs, movies, services and goods).
- ✓ Taxis driver uses it to track passengers current location and public transportation webpages can use it to display current location of buses, trams and trains