**CHAPTER 3**

**API’S AND LIBRARIES**

**1.Web Speech api**

The Web Speech API provides two distinct areas of functionality — speech recognition, and speech synthesis (also know as text to speech, or tts) — which open up interesting new possibilities for accessibility, and control mechanisms. This article provides a simple introduction to both areas, along with demos.

**Speech recognition**

Speech recognition involves receiving speech through a device's microphone, which is then checked by a speech recognition service against a list of grammar (basically, the vocabulary you want to have recognised in a particular app.) When a word or phrase is successfully recognised, it is returned as a result (or list of results) as a text string, and further actions can be initiated as a result.

**Speech synthesis**

Speech synthesis (aka text-to-speech, or tts) involves receiving synthesising text contained within an app to speech, and broadcasting it out of a device's microphone.

**2.Leaflet JS**

Leaflet is the leading open-source JavaScript library for mobile-friendly interactive maps. Weighing just about 38 KB of JS, it has all the mapping features most developers ever need.

Leaflet is designed with simplicity, performance and usability in mind. It works efficiently across all major desktop and mobile platforms, can be extended with lots of plugins, has a beautiful, easy to use and well-documented API and a simple, readable source code that is a joy to contribute to.