

GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY, TIRUTTANI - 631209



Approved by AICTE, New Delhi Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT TITLE

Traffic Management for Internet of Things (IoT)

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CODING:

getCurrentPosition() method:

The getCurrentPosition(successCallback, errorCallback, options) method steps are:

If the current settings object's relevant global object's associated Document is not fully active:

- 1) Call back with error errorCallback and POSITION UNAVAILABLE.
- 2) Terminate this algorithm.
- 3) In parallel, request a position passing successCallback, errorCallback, and options.

// A one-shot position request:

```
navigator.geolocation.getCurrentPosition(position => {
  const { latitude, longitude } = position.coords;

// Show a map centered at latitude / longitude.
});
```

watchPosition() method:

The watchPosition(successCallback, errorCallback, options) method steps are:

If the current settings object's relevant global object's associated Document is not fully active:

- 1. Call back with error passing errorCallback and POSITION UNAVAILABLE.
- 2. Return 0.
- 3. Let watchId be an implementation-defined unsigned long that is greater than zero.
- 4. Append watchId to this's [[watchIDs]].
- 5. In parallel, request a position passing successCallback, errorCallback, options, and watchId.
- 6. Return watchId.

Watching a position for repeated updates:

```
const watchId = navigator.geolocation.watchPosition(position => {
  const { latitude, longitude } = position.coords;

// Show a map centered at latitude / longitude.
});
```

clearWatch() method:

When clearWatch() is invoked, the user agent MUST:

1) Remove watchId from this's [[watchIDs]].

Using clearWatch():

```
const watchId = navigator.geolocation.watchPosition(
  position => console.log(position)
```

```
);
function buttonClickHandler() {
// Cancel the updates when the user clicks a button.
 navigator.geolocation.clearWatch(watchId);
}
A HTML button that when pressed stops watching the position.
<bu />
button onclick="buttonClickHandler()">
 Stop watching location
</button>
Handling errors:
```

```
// Request repeated updates.const watchId =
navigator.geolocation.watchPosition(
 scrollMap, handleError
);
function scrollMap(position) {
 const { latitude, longitude } = position.coords;
// Scroll map to latitude / longitude.
}
function handleError(error) {
// Display error based on the error code.
 const { code } = error;
 switch (code) {
case GeolocationPositionError.TIMEOUT:
```

```
// Handle timeout.
break;
case GeolocationPositionError.PERMISSION DENIED:
// User denied the request.
break;
case GeolocationPositionError.POSITION_UNAVAILABLE:
// Position not available.
break;
}
}
Getting cached position:
navigator.geolocation.getCurrentPosition(
 successCallback,
console.error,
{ maximumAge: 600 000 }
);
function successCallback(position) {
// By using the 'maximumAge' member above, the position
```

Timing out a position request:

}

// Request a position. We are only willing to wait 10// seconds for it.

// object is guaranteed to be at most 10 minutes old.

```
navigator.geolocation.getCurrentPosition(
 successCallback,
 errorCallback,
{ timeout: 10 000 }
);
function successCallback(position) {
// Request finished in under 10 seconds...
}
function errorCallback(error) {
 switch (error.code) {
case GeolocationPositionError.TIMEOUT:
// We didn't get it in a timely fashion.
doFallback();
// Acquire a new position object,
// as long as it takes.
navigator.geolocation.getCurrentPosition(
successCallback, errorCallback
);
break;
case "...": // treat the other error cases.
}
function doFallback() {}
```

Enabling the Geolocation API in an iframe:

```
<iframe
src="https://third-party.com"
allow="geolocation">
</iframe>
```

Permissions Policy over HTTP:

Permissions-Policy: geolocation=()

PositionOptions dictionary:

```
PositionOptions {
   boolean enableHighAccuracy = false;
   [Clamp] unsigned long timeout = 0xFFFFFFFF;
   [Clamp] unsigned long maximumAge = 0;
};
```