DAY 16 (VERSION 2.0)

Index.html

<head> section:

This is where we include info about the page (not what's shown visually):

- <title> sets the tab title in your browser to "Live Battery Indicator".
- Google Fonts link imports the **Orbitron** font for a futuristic look.
- style1.css links to your custom CSS file to style the page.
- rel="icon"...> adds a small battery icon to the browser tab.

<body>:

This is where the actual visible content is.

div.battery-card — A box/card that holds all the battery details.

Inside it:

- o <h2> A heading saying "Battery Level".
- o <div id="battery-percent"> Shows the numeric battery level (e.g., 72%).
- o <div class="battery-shell"> A shell-shaped battery frame.
 - Inside it, <div id="battery-fill"> This part fills up like a progress bar.
- o <div id="battery-status"> Displays if the device is **charging** or **not**.

Style.css

```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
```

• Removes all default spacing and makes layouts more predictable.

```
body {
   background-color: #121212;
   font-family: 'Segoe UI', sans-serif;
   height: 100vh;
   display: flex;
   justify-content: center;
   align-items: center;
   flex-direction: column;
}
```

• Dark background for a clean look.

- Uses a modern sans-serif font.
- Centers everything in the middle of the screen (both horizontally and vertically).
- Puts content in a column layout.

```
.battery-card {
   background-color: #1e1e1e;
   padding: 40px 30px;
   border-radius: 30px;
   text-align: center;
   color: white;
   animation: glowPulse 1s infinite alternate;
}
```

- A rounded rectangle that holds battery content.
- Has a **glow animation** using the glowPulse keyframes below.

Glow Animation

- Creates a **pulsing green glow** effect around the battery card.
- It animates between light and strong shadows.

```
.battery-card h2 {
  font-family: 'Orbitron', sans-serif;
  font-size: 22px;
  color: #c5c5c5;
  margin-bottom: 10px;
}
```

- Uses the Orbitron font to make it look techy.
- Lighter gray color for contrast.

```
.percentage {
  font-size: 48px;
  font-weight: bold;
  color: white;
  margin-bottom: 20px;
}
```

- Shows the big % number.
- Large and bold to grab attention.

```
.battery-shell {
```

```
width: 100px;
height: 180px;
background-color: #101010;
border: 2px solid #333;
border-radius: 50px;
margin: auto;
display: flex;
align-items: flex-end;
justify-content: center;
padding: 10px;
position: relative;
```

- A vertical battery container.
- Rounded like a capsule.
- Content aligns to the bottom (so the fill grows from the bottom up).

```
width: 100%;
border-radius: 40px;
transition: height 0.5s ease-in-out, background 0.5s ease-in-out;
```

- This bar changes **height and color** based on battery level.
- Smooth transitions when values update.

```
.battery-status {
  margin-top: 20px;
  font-size: 18px;
  display: flex;
  justify-content: center;
  align-items: center;
  gap: 10px;
```

- Displays text like "Charging..." or "Not Charging".
- Uses spacing between icons/text if any.

Script.js

document.addEventListener("DOMContentLoaded", () => {

Waits until your web page is fully loaded before running anything.

```
const batteryFill = document.getElementById("battery-fill");
const batteryPercent = document.getElementById("battery-percent");
const batteryStatus = document.getElementById("battery-status");
```

- Finds and stores the parts of the battery design:
 - o batteryFill = the green fill that shows battery level.
 - batteryPercent = the number like "80%".
 - batteryStatus = the text below (e.g., "Full battery").

```
if ('getBattery' in navigator) {
```

- Checks if your browser supports the battery feature.
- If yes, it moves forward. If not, it shows an alert.

navigator.getBattery().then(battery => {

- Asks the browser for the **battery info**.
- battery gives:
 - o battery.level: how full the battery is (0 to 1).
 - o battery.charging: whether it's charging or not.

Updates the Battery Display:

```
function updateBatteryUI() {
  const level = Math.floor(battery.level * 100);
```

• Converts battery level from 0.88 (for 88%) to a clean number like 88.

```
batteryPercent.textContent = `${level}%`;
batteryFill.style.height = `${level}%`;
```

- Changes the percentage number you see.
- Adjusts the height of the green battery bar to match that percent.

Sets Color and Message Based on Level:

```
if (level <= 20) {
  batteryFill.style.background = 'red gradient';
  batteryStatus.innerHTML = 'Low battery '!';
}</pre>
```

If battery is 20% or less: red color, warning message.

```
else if (level <= 50) {
   batteryFill.style.background = 'yellow gradient';
   batteryStatus.innerHTML = 'Medium battery 'B';
}
```

• If battery is **between 21–50%**: orange/yellow color, medium status.

```
else {
   batteryFill.style.background = 'green gradient';
   batteryStatus.innerHTML = 'Full battery 'B';
}
```

• If battery is above 50%: green color, "Full battery" message.

Keeps It Updating Live:

```
updateBatteryUI();
battery.addEventListener('levelchange', updateBatteryUI);
battery.addEventListener('chargingchange', updateBatteryUI);
```

- Shows the current status **right away**.
- Then, **listens for changes** in battery level or charging and updates instantly.

If Not Supported:

```
} else {
   alert("Battery API not supported in this browser.");
}
```

• If your browser doesn't allow battery checking, shows a message.