DAY 16 (VERSION 1.0)

Index.html

<head> Section:

- **Google Fonts (Orbitron):**
  Loads a digital-style font called Orbitron used for headings or numbers.
- **<link rel="stylesheet" href="style.css">**
  Connects the HTML to an external **CSS file** (style.css) that defines the design and animation.

<body> Section:

Container:

```
<div class="container">
```

A box that holds all visual elements centered on the screen.

Background Circles:

```
<div class="circle circle-left"></div>
<div class="circle circle-right"></div>
```

These are **two glowing circle backgrounds**—one on the left and one on the right—purely for decoration (makes it look cool).

Battery Card:

```
<div class="battery-card">
```

This is the main **battery box UI** with a heading, battery shape, and percentage text.

Battery Heading:

```
<h2>Battery Status</h2>
```

Shows the title "Battery Status".

Battery Shape:

```
<div class="battery">
  <div class="battery-level" id="batteryLevel"></div>
</div>
```

This is the **visual battery bar**. The inner part (battery-level) fills up based on your real battery percentage.

Percentage Text:

```
<p class="percentage" id="batteryPercentage">--%</p>
```

This text shows the **actual battery percentage** like 87%.

Style.css

Fonts & Reset Styles

```
@font-face {
  font-family: 'Ethnocentric';
  src: url('fonts/ethnocentric.ttf') format('truetype');
}
```

- This loads a **custom font** called *Ethnocentric* from your local fonts/ folder.

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

- Removes default spacing on all elements and makes layout more predictable using border-box.

Body Styling

```
body {
  background-color: #0a0a23;
  font-family: 'Ethnocentric', 'Orbitron', sans-serif;
  height: 100vh;
  display: flex;
  justify-content: center;
  align-items: center;
  overflow: hidden;
}
```

- Sets the **dark background color**.
- Uses custom futuristic fonts (Ethnocentric, Orbitron).
- Centers the container **both vertically and horizontally**.

Container

```
.container {
  position: relative;
  width: 100%;
  max-width: 600px;
  height: 600px;
}
```

- A box that contains the entire UI. It's 600x600 max, centered.

Floating Background Circles

Animations:

```
@keyframes floatLeft {
  ...
}
@keyframes floatRight {
  ...
}
```

- Defines two floating motions (left and right) to move the glowing circles in a **looping, floating pattern**.

Circles:

```
.circle {
  position: absolute;
  width: 300px;
  height: 300px;
  border-radius: 50%;
  filter: blur(60px);
}
```

- Circles are soft, glowing backgrounds.

```
.circle-left {
  background: radial-gradient(...);
  top: -40px;
  left: -40px;
  animation: floatLeft 5s infinite ease-in-out;
}
.circle-right {
  background: radial-gradient(...);
  bottom: -40px;
  right: -40px;
  animation: floatRight 5s infinite ease-in-out;
}
```

- Glowing colorful background bubbles that slowly float.

Battery Card (Main Box)

```
.battery-card {
  width: 360px;
  height: 460px;
  background: rgba(255, 255, 255, 0.1);    /* transparent glass */
  backdrop-filter: blur(20px);          /* glass blur */
  border-radius: 28px;
  padding: 40px 25px;
  color: white;
  text-align: center;
  box-shadow: 0 10px 40px rgba(0, 0, 0, 0.6);  /* shadow glow */
}
```

- This is the **glass-like card** that holds the battery and heading.
- Has a **glassmorphism** effect with blur, transparency, and shadows.

Heading Style

```
.battery-card h2 {
  font-family: 'Orbitron', 'Ethnocentric', sans-serif;
  font-size: 32px;
  letter-spacing: 2px;
  background: linear-gradient(...);        /* gradient text */
  background-clip: text;                   /* for standard */
  -webkit-background-clip: text;           /* for Safari/Chrome */
  -webkit-text-fill-color: transparent;    /* shows gradient only */
  text-shadow: ...;                        /* neon-like glow */
}
```

- A glowing futuristic **gradient title** that says *Battery Status*.

Battery Shape

```
.battery {
  width: 260px;
  height: 120px;
  border: 4px solid #00ffe7;
  border-radius: 18px;
  background-color: rgba(255, 255, 255, 0.05);
  box-shadow: 0 0 25px #00ffe7, 0 0 40px #00ffe7 inset;
}
```

- Looks like a **battery box**, with glow and rounded corners.

```
.battery::after {
  ... (makes the battery terminal on the right)
}
```

Battery Fill Bar

```
.battery-level {
  height: 100%;
  width: 50%;    /* will be updated with real % via JS */
  background: linear-gradient(...);
  border-radius: 14px 0 0 14px;
  box-shadow: 0 0 20px #00ffc8;
  transition: width 0.3s ease;
}
```

- This is the **inner filling bar** showing battery level.
- Width will change live using JavaScript depending on how much battery your device has.

Battery Percentage Text

```
.percentage {
  font-size: 28px;
  font-weight: bold;
  margin-top: 10px;
  text-shadow: 0 0 8px #00ffe7;
}
```

- Shows e.g., 85% under the battery visually.

Script.js

```
navigator.getBattery().then(function(battery) {
```

- This line **asks your browser for battery info**.
- When the browser gives the battery details, it continues inside the function(battery) block.

```
 function updateBatteryStatus() {
```

- This defines a function (like a task) that will **update the battery status on the screen**.

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

- battery.level gives a number like 0.75 (means 75%).
- Math.floor() removes the decimal part.
- So now level = 75.

```
   document.getElementById("batteryPercentage").textContent = level + "%";
```

- This **writes the battery percentage** (like 75%) inside the <p id="batteryPercentage"> tag on the page.

```
   document.getElementById("batteryLevel").style.width = level + "%";
```

- This **changes the width of the green battery fill bar** ( ) so it matches your battery percentage.
- If battery is 75%, the green bar will cover 75% of the battery box.

```
 }

 // Initial update
 updateBatteryStatus();
```

- Calls the function once right away to **show the battery level** when the page loads.

```
 battery.addEventListener('levelchange', updateBatteryStatus);
```

- If your battery level **changes while the page is open**, this line will **auto-update** the screen (e.g., if you plug in the charger or it drops to 74%).