Phase 4:IoT Development part 2

Designing a mobile app for iOS and Android using HTML, CSS, and JavaScript typically involves creating a web app and packaging it within a WebView component for each platform. Here's a simplified example of how you can structure the HTML code for a basic restroom information app. Please note that this is a minimal example and does not cover all aspects of app development.

HTML (index.html):

```html
<!DOCTYPE html>

<html>

<head>

  <title>Restroom Finder</title>

  <link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

  <header>

    <h1>Restroom Finder</h1>

  </header>

  <main>

    <div id="map"></div>

    <div id="restroom-list">

      <!-- Restroom listings will be dynamically generated here -->

    </div>

  </main>

  <footer>

    <button id="refresh-button">Refresh</button>

  </footer>

  <script src="app.js"></script>

</body>

</html>
```

CSS (styles.css):

```css
body {
    font-family: Arial, sans-serif;
}
header {
    background-color: #3498db;
    color: #fff;
    text-align: center;
    padding: 10px;
}
main {
    padding: 20px;
}
#map {
    width: 100%;
    height: 300px;
}
#restroom-list {
    /* Styling for the restroom listings */
}
footer {
    text-align: center;
    padding: 10px;
}
button {
    background-color: #3498db;
    color: #fff;
```

```
    padding: 10px 20px;

    border: none;

    cursor: pointer;

}
```

JavaScript (app.js):

```javascript
const restroomData = [

  {

    name: "Restroom 1",

    location: "123 Main St",

    cleanliness: "Clean",

    availability: "Available",

  },

  {

    name: "Restroom 2",

    location: "456 Elm St",

    cleanliness: "Average",

    availability: "In Use",

  },

  ];


function renderRestroomList() {

  const restroomList = document.getElementById("restroom-list");

    restroomList.innerHTML = "";


    for (const restroom of restroomData) {

    const listing = document.createElement("div");
```

```
    listing.classList.add("restroom-listing");


    listing.innerHTML = `
      <h2>${restroom.name}</h2>
      <p><strong>Location:</strong> ${restroom.location}</p>
      <p><strong>Cleanliness:</strong> ${restroom.cleanliness}</p>
      <p><strong>Availability:</strong> ${restroom.availability}</p>
    ` restroomList.appendChild(listing);
  }
}
 const refreshButton = document.getElementById("refresh-button");
refreshButton.addEventListener("click", renderRestroomList);
renderRestroomList();
```

In this simplified example:

- The HTML file (`index.html`) defines the structure of the app, including a header, a map section, a restroom listing section, and a refresh button in the footer.
- The CSS file (`styles.css`) provides basic styling for the app's elements.
- The JavaScript file (`app.js`) contains sample data, a function to render the restroom listings, and an event listener for the refresh button.