Sprint 1 Artifacts

1. Requirement 3.1 – Display the total number of available and occupied parking spots for each lot

Description:

Show real-time data for each parking lot's availability, indicating how many spots are open versus full.

Implementation Details:

Each lot in mockParking.js includes total and available fields.

These are displayed beside each marker popup on the map (e.g., "64 / 80 spots available").

Verification:

On the Home Screen, click a marker on the map. A popup appears showing total and available spots.

2. Requirement 4.1 – Mark parking lots available to yellow permit holders

Description:

Visually represent lots reserved for Yellow Permit holders.

Implementation Details:

Yellow lots are tagged with "permit": "Yellow" in mockParking.js.

Verification:

Filter lots in mockParking.js. map labeled "Yellow Permit Lot."

3. Requirement 4.2 – Mark parking lots available to red permit holders

Description:

Red Permit lots must be easily identifiable on the map.

Implementation Details:

Markers show popup details of that lot's name and availability.

Verification:

On Home Screen, open the map → popup says "Red Permit Lot" labels.

4. Requirement 4.3 – Mark parking lots available to Central District Parking Garage Holders

Description:

Identify Central District Garage permit areas separately.

Implementation Details:

Markers show popup details of that lot's name and availability.

Verification:

Map shows markers around Central District; click a marker to see popup "Central District Garage Lot."

5. Requirement 4.4 – Mark parking lots available to Union Garage Holders

Description:

Display Union Garage lots distinctly.

Implementation Details:

Popup shows lot name and spots available.

Verification:

On map view, markers appear near Union Garage location with popup label.

6. Requirement 14 – Map that displays where the parking lot is located

Description:

Provide a geographic visualization of all parking lots on campus.

Implementation Details:

Implemented using react-native-maps for mobile and react-leaflet for web. Each lot from mockParking.js is rendered as a marker based on latitude and longitude.

Verification:

Run app → Home Screen shows interactive map centered on KU campus with colored markers for each lot.

