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Usage

1. Navigate to the Heatmap tab in the sidebar menu of the IncidentReporter365 application. Here you should see the heatmap according to the intensity of incident occurrence at different places.
2. Zoom in to the desired level to see the markers at the exact position of incident occurrence.
3. Click on a marker to see more details about the incident.
4. Click on the view button to see more details about a particular incident.
5. Zoom out to see the heatmap view again.

Infowindow

- **Unique ID:** A unique identifier for the incident.
- **Status:** Whether the incident is resolved or open.
- **Reported By:** The user who reported the incident. If the incident was reported anonymously, it will say "Anonymously reported".
- **Reported On:** The date and time the incident was reported.
- **Assigned To:** The user who is assigned to handle the incident, if any. If the incident is not assigned to anyone, this field will not appear.
- **Description:** The incident description added at the time of reporting
- **Site:** The site where the incident was reported.
- **Incident Type:** The incident type to which the incident belongs.
- **View Details:** A button that allows the user to view the incident details page.

Each card will display the same information as the marker popup, including the unique ID, status, reported by, reported on, assigned to (if applicable), site, and incident type. Each card will also include a View Details button that allows the user to view the incident details page for that incident.

Test Cases

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Test Case 1: Verify Heatmap Display

Description: Ensure that the heatmap displays correctly on the map.

Steps:

1. Open the IncidentReporter365 application.
2. Navigate to the heatmap.
3. Verify that the heatmap displays correctly on the map.

Expected Result: The heatmap should display correctly on the map, with varying colors indicating incident occurrence.

Test Case 2: Verify Marker and Marker Details Popup

Description: Ensure that the markers are visible when zoomed in and marker details popup displays correctly when a marker is clicked.

Steps:

1. Open the IncidentReporter365 application.
2. Navigate to the heatmap.
3. Zoom in.
4. Verify that markers are visible instead of heatmap view at incident locations.
5. Click on a marker.
6. Verify that the marker details popup displays correctly and shows the correct incident details.

Expected Result: The markers should be visible on zoom and the marker details popup should display correctly and show the correct incident details, including the unique ID, status, reported by (user/anonymous), reported on, assigned to (if applicable), site, and incident type.

1. If reported by user is available it should show the reported by user name
2. If the incident is anonymously reported then it should say the same instead of showing reported by user
3. If the incident is assigned to some one it should show the text saying the same
4. If the incident is not assigned to anyone then this message is not shown

Test Case 3: Verify View Details Button

Description: Ensure that the View Details button opens the incident details page correctly.

Steps:

1. Open the IncidentReporter365 application.
2. Navigate to the heatmap.
3. Zoom in
4. Click on a marker.
5. Click on the View Details button.
6. Verify that the incident details page opens correctly and shows the correct incident details.

Expected Result: It should redirect to the correct incident details and show the respective incident details.

Test Case 4: Verify Multiple Incidents at One Place

Description: Ensure that the info window and incident details cards display correctly when multiple incidents occur at the same place.

Steps:

1. Open the IncidentReporter365 application.
2. Navigate to the heatmap.
3. Zoom in to an area where multiple incidents have occurred.
4. Click on a marker.
5. Verify that the marker details popup displays correctly and shows the correct total number of incidents.
6. Verify that a list of incident details cards is displayed, with one card for each incident.
7. Click on the View Details button for each incident card.
8. Verify that the incident details page opens correctly and shows the correct incident details for each incident.

Expected Result: The marker details popup should display correctly and show the correct total number of incidents, and the incident details cards should display correctly with one card for each incident. The incident details page should open correctly for each incident and show the correct incident details.

