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## Decision Support Intervention

Snackbar Notification – Technical Documentation

### User Persona

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**Role:** Physician (General Practitioner)

**Experience:** 15 years in clinical practice

**Department:** Outpatient Care / General Practice

**Location:** Hospital San Juan, ICU Unit

**Age:** 42

**Technology Proficiency:** Proficient with EHR systems; prefers intuitive, streamlined interfaces that reduce clicks and enhance workflow efficiency.

*Project Link:*

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## Feature Overview

The **Decision Support Intervention Snackbar** is a non-intrusive notification designed to alert healthcare providers when a patient has a pending decision support intervention. The snackbar appears upon accessing a patient's Electronic Health Record (EHR) and remains visible until the user interacts with it by selecting either **“View Details”** or **“Dismiss”**. Interactions with the snackbar are logged in **Evolution Web** to facilitate tracking and compliance.

## Objectives

1. **Visibility Without Disruption:** Ensure that decision support alerts are visible without obstructing the user's primary workflow.
2. **Persistent Notification:** Allow the snackbar notification to remain visible until acknowledged, improving alert awareness.
3. **Alert Management:** Allow users to dismiss the notification for specific patients, so it doesn't reappear for that patient during the session.

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4. **Interaction Logging:** Track each interaction with the snackbar for compliance, monitoring user engagement with decision support interventions.
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## Feature Requirements

- **Snackbar Appearance:** The snackbar appears at the bottom of the screen upon entry to a patient's EHR if there's a pending decision support intervention.
  - **Snackbar Persistence:** The snackbar remains visible until the user interacts by selecting "View Details" or "Dismiss."
  - **Dismiss Functionality:** The **Dismiss** option allows the user to close the notification specifically for the current patient session. If dismissed, the snackbar does not reappear for this patient during the session unless manually reactivated by a system event or refresh.
  - **Re-entry Behavior:** If the user exits the EHR without interacting with the snackbar, it reappears upon re-entering the EHR as a reminder of the pending intervention.
  - **Logging:** Each interaction with the snackbar (i.e., clicking "View Details" or "Dismiss") is logged in Evolution Web for compliance tracking.
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## User Workflow

1. **Access Patient List:** The user begins in a **Patient List** module (e.g., Station Monitor, Patient Tracking).
2. **Select Patient:** The user selects a patient from the list, opening a floating menu with options like **EHR**.
3. **Enter EHR and Display Snackbar:**
  - The user clicks **EHR** to access the patient's electronic health record.
  - If a **Decision Support Intervention** is available, the snackbar notification appears at the bottom of the screen with the message:
    - "There is a Decision Support Intervention available for this patient."
4. **Interaction Options:**
  - **View Details:** If the user selects **View Details**, they are directed to more information, and the interaction is logged in the system.

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- **Dismiss for This Patient Only:** If the user selects the **Dismiss** checkbox, followed by the **Dismiss** button, the snackbar closes and does not reappear for this patient's EHR session.
5. **Logging:** Any interaction with the snackbar, including viewing details or dismissing the notification, is logged within Evolution Web.
6. **Re-entry Behavior:**
- If the user exits without selecting **View Details** or **Dismiss**, the snackbar reappears upon re-entry to remind them of the pending intervention.
  - If **Dismiss** was selected, the snackbar does not reappear during the current session for that patient.
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## Technical Specifications

### 1. Snackbar Layout & Styling

- **Position:** Bottom-center of the screen.
- **Visibility:** Only visible when a decision support intervention is active and has not yet been interacted with.
- **Font:** Roboto, sans-serif.
- **Background Color:** Dark (e.g., #1f1f1f) with white text for contrast.
- **Button Styling:**
  - **View Details** button: Gold background (#ffd700) with hover adjustment (#e6c200).
  - **Dismiss** button: Light blue background (#0C77E7) with white text.
- **Animation:** Smooth fade-in when appearing and remains fixed until interaction.

### 2. HTML/CSS Structure

Here is the sample code snippet for the HTML and CSS setup, including the **Dismiss** option.

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## HTML

```
<div id="snackbar" role="alert" aria-live="assertive">
  <div class="text-button-wrapper">
    <span class="snackbar-text">There is a Decision Support Intervention available for this
    patient.</span>
    <button class="snackbar-button" onclick="handleSnackbarInteraction()">View
    Details</button>
  </div>
  <div class="separator"></div>
  <div class="dismiss-options-container">
    <div>
      <input type="checkbox" id="dismiss-checkbox" onchange="toggleDismissButton()">
      <label for="dismiss-checkbox">Dismiss DSI Notification for this patient only</label>
    </div>
    <button class="snackbar-dismiss-button" id="snackbar-dismiss-button"
    onclick="dismissSnackbar()">Dismiss</button>
  </div>
</div>
```

## CSS:

```
/* Snackbar styling */
#snackbar {
  font-family: 'Roboto', sans-serif;
  max-width: 400px;
  width: 90%;
  background-color: rgba(31, 31, 31, 0.9);
  color: #ffffff;
  text-align: left;
  border-radius: 8px;
  padding: 16px 24px;
  position: fixed;
  z-index: 1000;
```

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```
left: 50%;
bottom: 30px;
transform: translateX(-50%);
box-shadow: 0px 4px 12px rgba(0, 0, 0, 0.15);
display: flex;
flex-direction: column;
gap: 8px;
}

/* Responsive adjustments */
@media (max-width: 480px) {
  #snackbar {
    padding: 12px 16px;
    max-width: 100%;
    bottom: 20px;
  }
  .text-button-wrapper {
    flex-direction: column;
    align-items: flex-start;
    gap: 8px;
  }
  .snackbar-text {
    font-size: 14px;
    white-space: normal;
  }
  .snackbar-button, .snackbar-dismiss-button {
    width: 100%;
    font-size: 13px;
    padding: 10px;
    margin-top: 8px;
  }
  .dismiss-options-container {
    font-size: 13px;
    flex-direction: column;
    align-items: flex-start;
    gap: 8px;
  }
}
```

### 3. JavaScript Functions

Implement the following JavaScript functions to manage snackbar visibility, interactions, and dismissal behavior.

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## javascript

```
function toggleDismissButton() {
  const checkbox = document.getElementById("dismiss-checkbox");
  const dismissButton = document.getElementById("snackbar-dismiss-button");
  dismissButton.style.display = checkbox.checked ? "inline-block" : "none";
}

function dismissSnackbar() {
  const snackbar = document.getElementById("snackbar");
  snackbar.style.transition = "opacity 0.4s ease";
  snackbar.style.opacity = "0";

  setTimeout(() => {
    snackbar.style.display = "none";
  }, 400);
}
```

## 4. Logging Requirements

- **Event:** Any click on **View Details** or **Dismiss** within the snackbar.
  - **Data to Log:**
    - User ID
    - Patient ID
    - Timestamp of interaction
    - Intervention ID (if applicable)
  - **Logging Endpoint:** A server endpoint should capture and store data to securely log interactions within Evolution Web's backend.
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## Testing Scenarios

1. **Snackbar visibility on entry if intervention exists.**
2. **Snackbar persistence until interaction.**

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3. **Interaction logging for View Details and Dismiss options.**
  4. **Snackbar reappears on re-entry if no interaction occurred.**
  5. **Snackbar remains dismissed for the current session if “Dismiss” was selected.**
  6. **Snackbar reappears for other patients if dismissed for one.**
  7. **Responsiveness and non-obstruction of EHR elements on both desktop and mobile.**
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## Completion Criteria

The feature is considered complete when:

- The snackbar appears as specified upon entry to a patient’s EHR with a pending intervention.
  - The snackbar remains visible until the user selects **View Details** or **Dismiss**.
  - Each snackbar interaction is accurately logged.
  - The **Dismiss** option prevents the snackbar from reappearing for the specific patient session while allowing it to appear for other patients or future sessions.
  - The snackbar does not obstruct essential EHR elements and is accessible on both desktop and mobile views.
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This documentation provides all necessary details for implementing and testing the Decision Support Intervention snackbar notification, ensuring consistency in user experience and functionality within Evolution Web.