**Interview Assignment: Floor Plan Annotation Tool**

**Objective** Build a lightweight web application that enables users to annotate doors and windows on a floor-plan image.

**Core Requirements (in order of priority)**

1. **Draw bounding boxes:** Allow the user to draw rectangular annotations around each element (door or window).
2. **Render annotations:** Display all created bounding boxes on the canvas, overlaid on the floor-plan image.
3. **Label annotations:** Enable the user to assign a descriptive name (e.g. “Front Door,” “Kitchen Window”) to each annotation.

**Additional Features** 4. **Summary table:** Present a tabular view beneath the canvas listing each annotation’s name along with its pixel coordinates (x, y, width, height).  
 5. **Deletion capability:** Provide controls to remove an annotation either by clicking a “delete” action in the table or by interacting directly with the annotation on the canvas.

**Bonus Enhancements**

* **Styling & Theme:** Polish the UI with a consistent design system (colours, typography, hover/focus states).
* **UX Improvements:** Add intuitive affordances—e.g. hover highlights, drag-to-resize handles, confirmation dialogs.
* **Persistence:** Store annotations (e.g. in LocalStorage or via a simple backend) so they survive page reloads.

**Time Allocation** You have **2 hours** to deliver a functional prototype that demonstrates the core requirements.

**References**

* Canvas API (MDN):<https://developer.mozilla.org/en-US/docs/Web/API/Canvas_API>
* DOM Events (W3Schools):<https://www.w3schools.com/jsref/dom_obj_event.asp>