**User Guide for Placing the Sensor**

**Ideas from the paper:**  
1. Deployment complexity is influenced by the physical environment (e.g., room size, obstacles, and lighting)  
  
2. Sensor placement should minimize interference and ensure coverage of the target area.

3. The system should account for user behavior (e.g., how students enter the room and approach the sensors).

4. User can use simulations or visualizations to predict sensor performance before physical deployment.

5. We should consider the user feedback during deployment to optimize sensor placement.

**Brainstorm**

1. The card scanner should be placed near the door. ASU classroom has a nice double door design for that.

2. Ensure the card scanner is at a comfortable height to avoid students spending too much time.

3. Avoid placing sensors near sources of interference.  
  
4. Test sensor performance under different conditions.

5. Observe how students naturally enter the room and adjust sensor placement accordingly.

6. Include a step-by-step guide in the client to help users place sensors optimally.

7. Provide visual diagrams or augmented reality (AR) overlays to show ideal sensor locations based on room dimensions. (Would be hard to implement.)

8. Create simulated sensor coverage for user to test in the client.

9. Include a checklist for users to verify optimal conditions

10. Use machine learning to analyze feedback and recommend improvements over time.

11. Provide a feedback page for user to submit feedback to us.

12. Include video tutorials or interactive guides in the app to demonstrate best practices for sensor placement.

13. Provide a troubleshooting section to address common deployment issues.