Project Proposal: Steady Hands

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Project Overview:

The Game Path System is designed to be an interactive project that includes sound, visual indicators, and a controlled game path for an engaging experience. This system will include components like metal wires for the path, a buzzer for sound feedback, LEDs for visual cues, and a power supply to run the system. The system will be mounted on a baseboard for structural integrity and functionality.

Objective:

To create a robust and efficient game path system using basic electronic components. The aim is to integrate a buzzer, LEDs, switches, and power supply for a fully functional game experience.

Component List:

- **Thick Metal Wire: ₹30–₹70**

- **Buzzer (Active Buzzer Recommended): ₹15–₹40**

- **External Power Supply (12V): ₹120–₹250**

- **Wires: ₹30–₹70**

- **LEDs - 2 Red Large: ₹10–₹20**

- **LED Strip Lights: ₹80–₹150**

- **Switch: ₹10–₹40**

- **Baseboard: ₹100–₹200**

- **Foam Board: ₹40–₹100**

Project Scope:

- **Design & Layout:** The system will use a game path designed with thick metal wire, forming a challenge that participants need to navigate. LEDs and buzzer feedback will signal the progress or completion of the task.

- **Power Management:** The 12V external power supply will power all components efficiently, ensuring that the system functions without interruption. The system will be wired to ensure safe and continuous operation.

- **Visual and Audio Feedback:** The use of LEDs and a buzzer will provide the necessary feedback to guide players through the game path.

- **Mounting & Assembly:** All components will be securely mounted on a baseboard for stability and ease of interaction. The foam board will be used for any structural or design adjustments.

Expected Outcome:

The Game Path System will function as an interactive project where players can follow the wire path while receiving feedback from the buzzer and LEDs. This project is designed to engage users and offer a fun, hands-on experience.

Budget Summary:

Component	Approx. Price (INR)
Thick Metal Wire	**₹30–₹70**
Buzzer (Active Buzzer Recommended)	**₹15–₹40**
External Power Supply (12V)	**₹120–₹250**
Wires	**₹30–₹70**
LEDs - 2 Red Large	**₹10–₹20**
LED Strip Lights	**₹80–₹150**
Switch	**₹10–₹40**
Baseboard	**₹100–₹200**
Foam Board	**₹40–₹100**

Conclusion:

This Game Path System is a cost-effective and interactive project that can be used for educational or entertainment purposes. With the carefully selected components, the project will be functional, visually appealing, and easy to assemble. The budget estimation provides a reasonable range based on local pricing, and the system can be adjusted based on available resources or specific requirements.