FACE MASK DETECTION USING ARTIFICIAL INTELLIGENCE TO OPERATE AUTOMATIC DOOR

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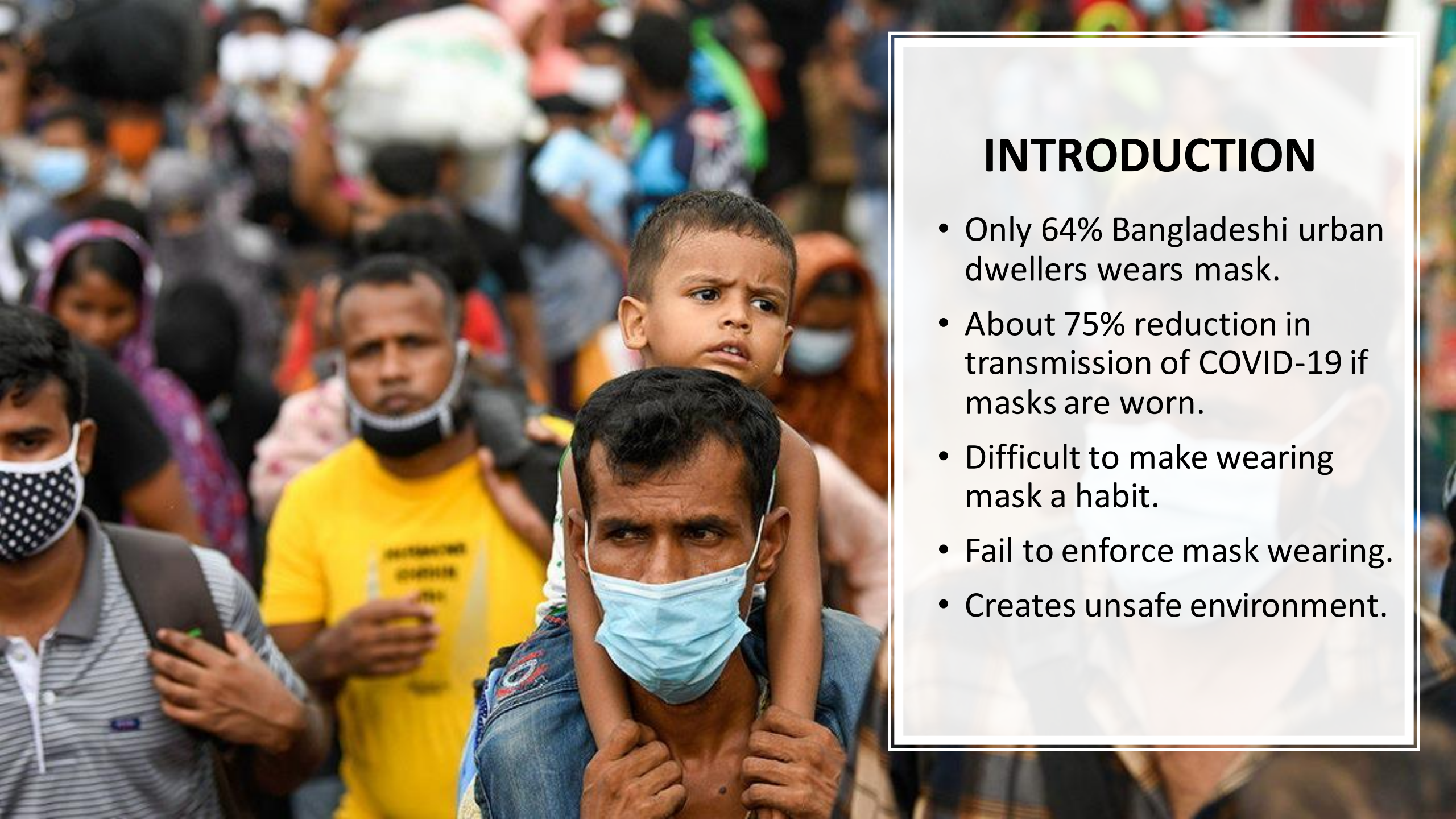
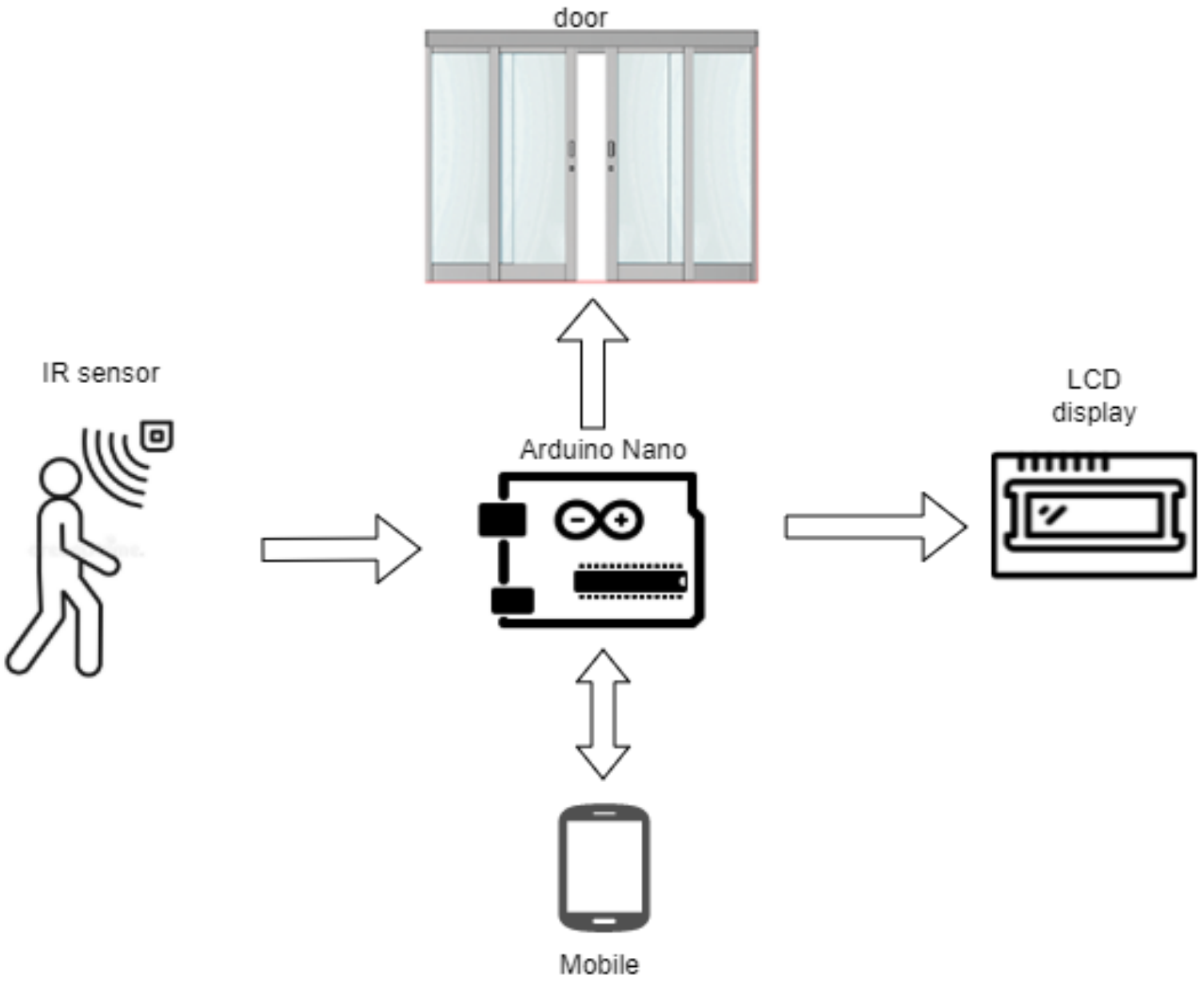


INTRODUCTION

- Only 64% Bangladeshi urban dwellers wears mask.
- About 75% reduction in transmission of COVID-19 if masks are worn.
- Difficult to make wearing mask a habit.
- Fail to enforce mask wearing.
- Creates unsafe environment.

PROPOSED SYSTEM



COMPONENTS

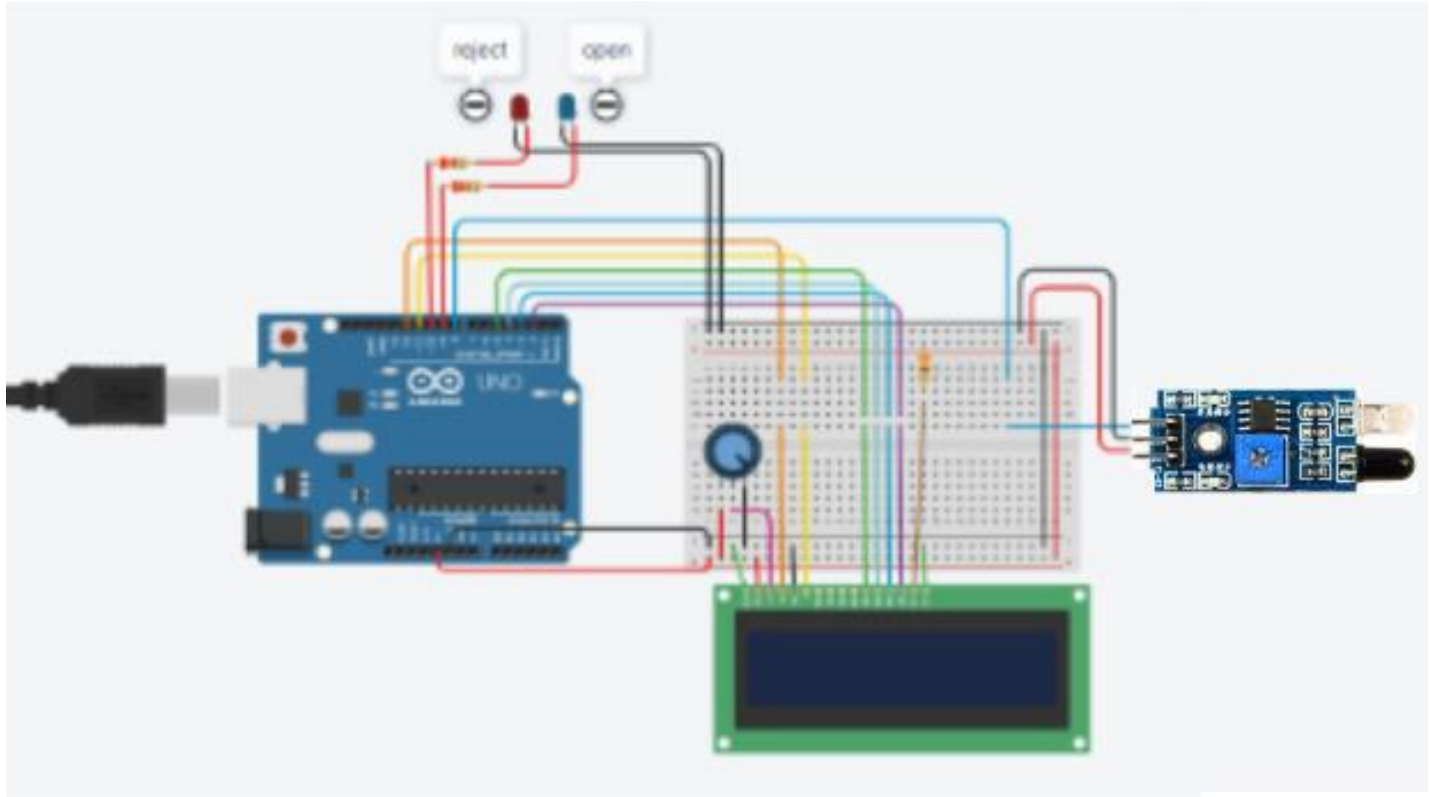
Arduino Nano

IR sensor

LEDs

LCD display (16x2)

CIRCUIT ANALYSIS



LIVE DEMO

DRAWBACKS

- AI can only handle a limited number of situations.
- Old phones may not be able to handle running the system.

FUTURE SCOPE

- Train the AI model with bigger dataset.
- Introduce more classification classes to AI.
- System can used to determine % of mask wearers.
- Statistics can be sent to authorities via IoT.

CONCLUSION

- Reduces risk of spreading the COVID-19.
- Help create the habit of mask-wearing among the masses.
- Ensure a safe environment.
- System is eco-friendly and cheap.

THANK YOU!