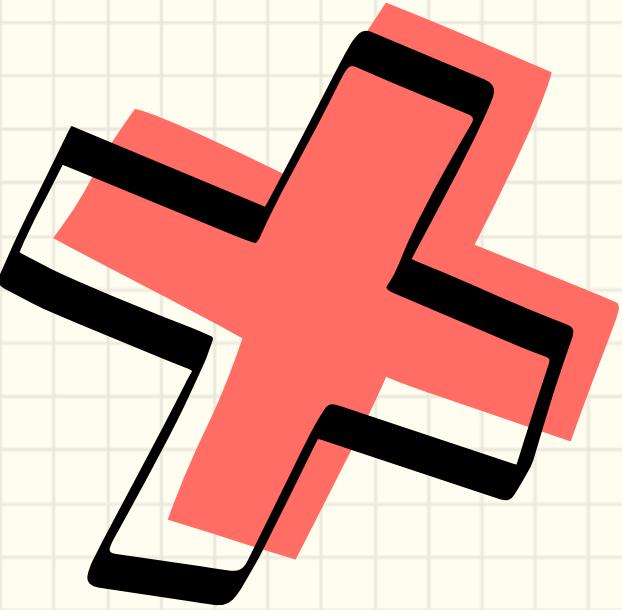


# RFID-BASED SMART HALL TICKET & SEAT VERIFICATION SYSTEM



The RFID-Based Smart Hall Ticket / ID Verifier is an automated attendance and verification system designed for exam halls and events. Each student uses an RFID card/ID, which is scanned at entry. The system validates authenticity, allocates seat numbers, and displays details on an LCD. This reduces manual errors, prevents impersonation, and ensures faster verification.

## INFO

### Problem Statement

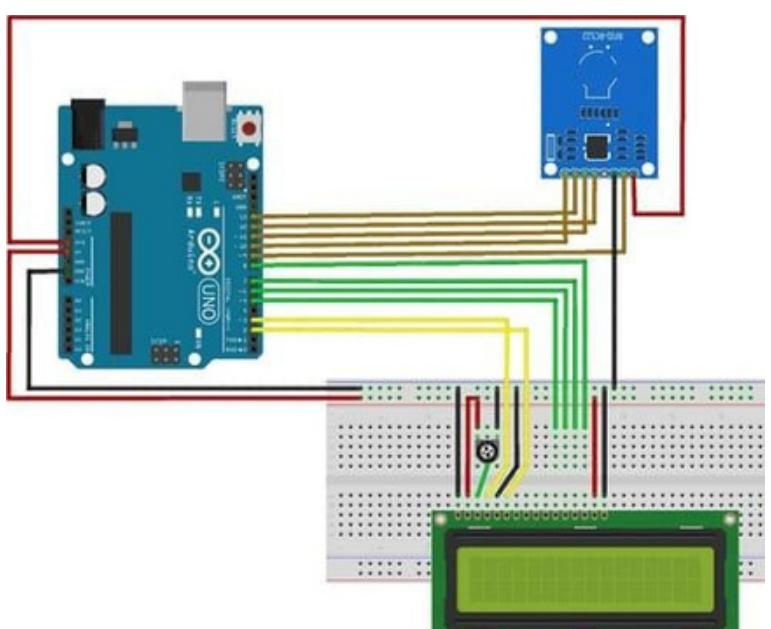
Manual exam hall verification is slow, error-prone, and allows proxy entries. A low-cost RFID-based system can automate verification, prevent malpractice, and ensure smooth seating management.

### Components Used

Arduino UNO (Microcontroller), RFID Module (RC522),  
RFID Cards/Tags, 16×2 LCD Display (Parallel Interface),  
10k Potentiometer (for LCD contrast),  
Jumper wires, breadboard, resistors

## DESIGN

### Circuit Diagram



A Student Scanning RFID Card To Enter The Exam Hall

## RESULT

### Working

When a student scans their RFID card, the Arduino reads the UID and checks it against the database. If matched, the LCD shows the student's name and seat number; otherwise, it displays "Access Denied." The system can also maintain a real-time attendance log for record keeping.

### Conclusion

The project enhances exam hall/event security by eliminating manual ID checking. With RFID automation, entry becomes faster, safer, and error-free. This system is scalable for universities, conferences, and large gatherings.