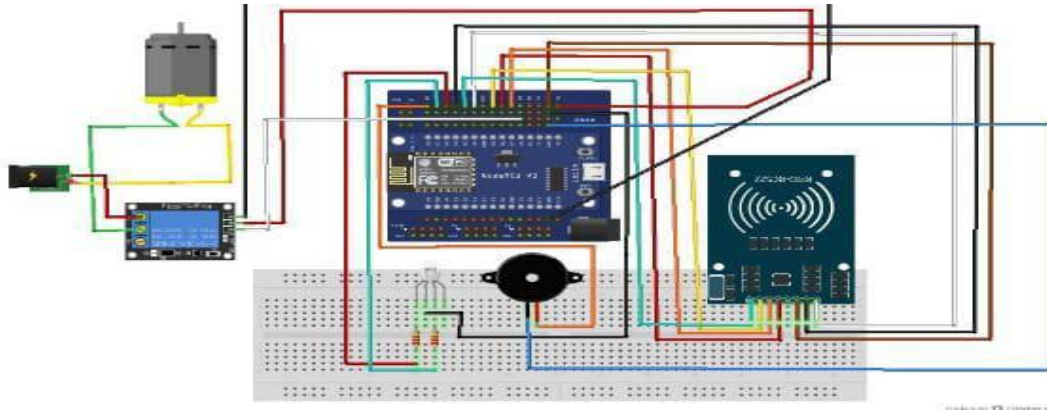# RFID SMART DOOR LOCK TRACKING NAME AND DATE WITH TIME
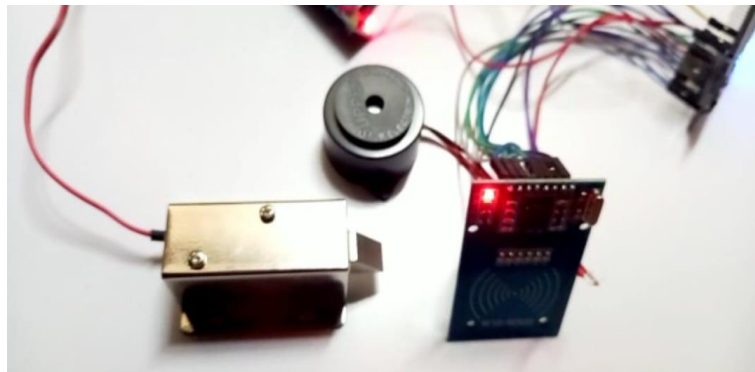
ABOUT THE PROJECT:

In RFID-based smart door lock, we integrated various components to create an efficient and secure access control system. The core elements include an ESP8266 for wireless connectivity, an RFID reader for card authentication, a relay module to control the solenoid lock, a solenoid lock for physical door locking mechanism, a power supply for consistent operation, RFID tags for user identification, and a buzzer for unauthorized access alerts. The system is designed to beep the buzzer when an unauthorized RFID card is detected, providing a clear indication of potential security breaches.

Moreover, our system takes security and accountability a step further by integrating with Google Sheets. Every time the solenoid lock is triggered to open, the system automatically updates a Google Sheets document with details such as the name of the person gaining access and the timestamp. This feature not only enhances security by maintaining a log of access events but also provides a convenient way to monitor and manage access to the secured space. With a robust codebase, the project seamlessly combines hardware and software components, ensuring a reliable and effective RFID-based smart door lock system for enhanced access control and data logging.

Circuit diagram

RIFD door lock system

216	1/3/2024	16:05:38	Ganesh_EC012
217	1/3/2024	16:05:48	Ganesh_EC012
218	1/3/2024	16:05:56	Ganesh_EC012
219	1/3/2024	16:06:04	Ganesh_EC012
220	1/3/2024	16:06:09	invalid_card
221	1/3/2024	16:06:17	Ganesh_EC012
222	1/3/2024	16:06:24	Ganesh_EC012
223	1/3/2024	16:06:27	Ganesh_EC012
224	1/3/2024	16:06:39	Ganesh_EC012
225	1/3/2024	16:08:23	Ganesh_EC012
226	1/3/2024	16:08:30	Ganesh_EC012
227	1/3/2024	16:08:38	Ganesh_EC012
228	1/3/2024	16:08:42	Ganesh_EC012
229	1/3/2024	16:08:47	invalid_card
230	1/3/2024	16:08:55	invalid_card
231	1/3/2024	16:09:21	Ganesh_EC012
232	1/3/2024	16:09:26	invalid_card
233	1/3/2024	16:09:34	invalid_card
234	1/4/2024	15:02:13	Ganesh_EC012
235	1/4/2024	15:02:37	Ganesh_EC012
236	1/4/2024	15:02:49	invalid_card
237	1/4/2024	15:04:21	Ganesh_EC012
238	1/4/2024	15:04:29	Ganesh_EC012

Google sheet