Scenario #1: User Enters Home Walking

- Outside Method Authentication:
 - User enters a 4-digit numeric password on the keypad to unlock the front door.
 - Two-way authentication:
 - If the password is correct:
 - Green LED indicates success.
 - Servo opens the front door.
 - If the password is incorrect:
 - Red LED indicates failure.
 - After the third wrong attempt:
 - Sends notification to the user's phone.
 - Buzzer sounds.
 - Garden lights turn red.
 - o Locks the system for an hour.
- Inside House Method Authentication:
 - User enters another password within 30 seconds of entry.
 - If the password is correct, the system unlocks and first-floor lights turn on.
 - If the password is incorrect:
 - After the third wrong attempt:
 - Locks the user inside the house.

- Only unlockable via phone app.
- If there's fire, the system unlocks for firefighters.
- After the fourth wrong attempt:
 - Locks the system until police arrive.
 - Lights flash red, buzzer sounds.

Scenario #2: User Enters Home with His Car

- Ultrasonic sensor senses the car and opens the garage door.
- User must enter a second keypad password.

Scenario #3: User Enters Home without Problems

- Can control systems via keypad or app.
- Room lights turn on/off based on motion sensors.

Scenario #4: There is Fire

- System detects fire, unlocks, and calls fire station.
- Garden lights turn red, buzzer sounds.

Scenario #5: The Weather is Hot

- Temperature sensor activates the fan if temperature is above 25°C.
- User can override fan control via app or keypad.
- Priority is to evacuate in case of fire.

Scenario #6: In the Morning

- Light-dependent resistor (LDR) turns off garden lights in the morning.
- Lights turn red in case of fire or intrusion.

Additional Notes:

- Multiple keypads and sensors are strategically placed for security and convenience.
- The garage is separate from the house but within the system's parameters.