



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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HOME AUTOMATION SYSTEM

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OUTLINE OF PRESENTATION

1. Introduction
2. Objective
3. Need of Home Automation
4. Component Used
5. Circuit Diagram
6. Advantages and limitation of Home Automation
7. Future plan
8. Conclusion

INTRODUCTION

- ✓ Home Automation present a possible solution of existing problem where control can be done by mobile phone.
- ✓ Home Automation includes Home Security.
- ✓ Demand of home Automation is increasing day by day .

OBJECTIVE

- ✓ To design Home Automation system which will be fully control of the owner, to save the people 's time and to survive in this more technological world.

Need of the Home Automation

- People will use application at the right time.
- Home will be under control of owner of the home.
- Skip key locks.
- Protect your home without security guard.
- Key of all application in your hand.

COMPONENTS USED

- ❖ Raspberry pi 4
- ❖ Relay board
- ❖ Light bulbs
- ❖ jumper wire
- ❖ Extension board
- ❖ Mobile phone

Raspberry pi

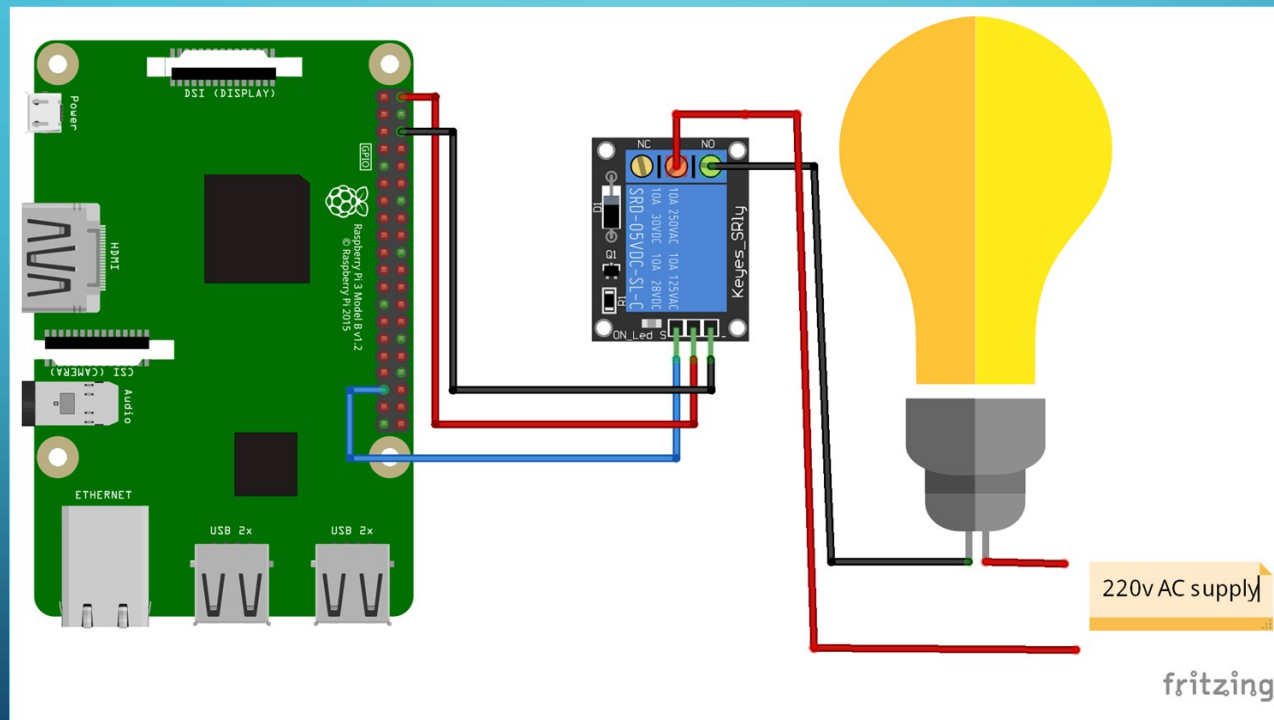


Relay Board

- ❑ Relay board is electromagnetic switch that is used to turn on or off a circuit by low power signal.
- ❑ For Home Automation 2 pin 5 voltage relay board used



CIRCUIT DIAGRAM



Advantages of Home Automation System

- ✓ Time and energy can be saved.
- ✓ Home appliances can be controlled seamlessly.

Limitation of Home Automation System

- ✓ Data can be stolen and home can be control by unknown person.
- ✓ Cost of the whole setup is very high.

FUTURE PLAN

- ✓ Different Types of sensor can be implemented so that security and accuracy can be increased.
- ✓ Complete user friendly setup will be developed so that every one can get advantage.

CONCLUSION

- ✓ By using this technology the development of HOME AUTOMATION can be improved, so that people will be user friendly with the new technology.
- ✓ Every appliances will be controlled by one mobile phone.



THANK YOU