



# Project Based Learning

# Topic-Contactless doorbell and Door lock

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# Objective

- The value of being able to remotely secure, unlock and open doors has been growing steadily.
- The goals of this project were to build a modern, easy-to-use, smart door lock and doorbell that allows for accessible unlocking and adds convenience, utility, and security to your home.

# Modules of the project

- Module O1 – Planning and communication about the projects and the steps to implement the project.
  - Module O2 – Defining the required components.
  - Modules O3 – Making all the components available.
  - Module O4 – Preparing various codes required for the project.
- Module O5 – Making the prototype i.e., the connecting each and every components to the required sensor board.
- Module O6 – Testing the code whether its giving the required output or not.
  - Module O7 – If codes runs well, then finalize and complete the project activity, if not then make the required changes and test it again and then implement the model.

## Scope of the project

- The designed Touchless Doorbell is detecting a person who is visiting a home without touch. To set variable
- distance user can adjust is by its own. In general, we have sated the distance of person detection as 15 cm. and we
- have tested for 10-12 distances in the described range and the result was as per expectations. This product functions
- automatically when a person comes in range of the sensor of touchless doorbell. We also had taken care that the
- product should be economically affordable. We can place it anywhere we want and also the installation is pretty
- simple. The setup of wireless doorbell doesn't require any internal wiring.

# Conclusion

This project is to bring more next level of enhancement in the security system.

THANK YOU !!!