# MINI PROJECT – II
# 2019

# Costumer Assistant Robot

## SYNOPSIS



## Institute of Engineering & Technology

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**PROBLEM STATEMENT:**

Nowadays we tend to search the net every now and then even for the smallest tasks. The most feasible option we use to have to look up the internet is our phone and once we open the net we get lost in it and end up wasting a lot of precious time there. This phenomenon is even scary in young kinds as they tend to use most of their time on net.

**REASON:**

Young people spends most of their time wandering on net uselessly And usually they go on net for finding something useful and end up being stuck there.

**OBJECTIVE:**

To limit the use of internet of young people by making them not to go on net to search for trivial or simple things which can be understood by a text to speech output or a few simple dialogues. Apart from that it will support wireless operation all they need to do is to give them simple commands and will make people's life easier.

**FUTURE SCOPE:**

This is helpful for people having disability all they need to do is give some simple commands and they will get the response from the robot. It is also useful for people who don't know how to use net.

**METHODOLOGY:**

We will use a Raspberry Pi and Amazon developer page along with Google assistant API to connect with the Google and Alexa. This methodology is one of the most effective approaches to all the software development businesses, it ensures a proper channel of communication, which helps both the clients and App Developers to execute the task easily.

**HARDWARE REQUIRED:**
    A Raspberry Pi 3

    A 32 GB micro SD card

    A USB wall charger

    A 3 Port USB Hub.

    A USB Mic

    Portable speaker with AUX input

    A keyboard and mouse along with HDMI cable.

**SOFTWARE REQUIRED:**
    Amazon Developer Account
    Python
    Google Assistant API
    IFTTT  Mobile Application

**CONTRIBUTION OF THE PROJECT:**

This project helps in saving time, effort and money. It also helps in making the task hands free and easy to use.

**SCOPE FOR EXTENSION:**

We can extend this assistant robot into a complete Home Automation System and could use face recognition and other ML facilities.

**CONCLUSION:**

People face problems as stated. We have come up with an innovative and effective solution which would solve the given social problem