DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institution affiliated to VTU, Accredited with NAAC 'A' Grade)

PROJECT SYNOPSIS

DEPARTMENT	Computer Science and Engineering			
TITLE OF THE PROJECT	**Automation** of **Attendance** during **Online Classes**			
STUDENT NAMES/ USN/ PHONE/ MAIL ID	Gautam Kumar	Rithvik K Bhat	Suhaan Y M	Vignesh K
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MINI - PROJECT TIMELINE (Tentative Start date- End Date)	September 2020- January 2021			
PROJECT GUIDE DETAILS	Prof. Poornima KS			
FIELD OF PROJECT	The project is in the field of Robotic Process Automation. Robotic Process Automation (RPA) is the use of software with Artificial Intelligence (AI) and learning capabilities to handle high-volume, repeatable tasks that previously required humans to perform. These tasks can include queries, calculations and maintenance of records and transactions.			
BACKGROUND OF PROJECT WITH REGARD TO THE DRAWBACK ASSOCIATED WITH EXISTING PRODUCT/PROJECT	The traditional method of taking attendance by calling out names of students is a cumbersome process. This led to the wastage of time of time and energy for teachers to mark attendance of students. There are also chances of human errors while taking attendance. All these problems can be solved by automating the process using bots.			
OBJECTIVE OF THE PROJECT	The objective of this project is to help those who take attendance during online classes as it is a tedious task accompanied by other factors such as connectivity issues, hardware failures like microphone malfunctioning, absence, etc.			
PROJECT STATEMENT	Automatic attendance manager that saves attendance of students			

SUMMERY OF THE PROJECT	This project is to Automate the process of documenting attendance of each students, who attends online classes on platforms like Zoom app, Cisco WebEx etc. However, for demonstration purpose this project is designed for automating using Zoom app only. First of all, this Project connects three windows-based applications, i.e., Google Chrome for accessing cloud-enabled control room, Zoom application for extracting data of attendees (students) and finally Microsoft Excel for documenting the attendance of students. This project uses the A2019 Universal Recorder which is available from Automation Anywhere Enterprise. The A2019 Universal Recorder is used to record data on windows-based applications like: MS-Excel, Word editor, Web Browser etc. Thus, using this Bot, we can reduce the time, human error, and document attendance of students efficiently and accurately.
MODE OF CARRYING OUT THE PROJECT (Give details such as Lab/ /Innovation Lab details.)	The project will be carried out in the Computer Science and Engineering Department of DSCE.

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INTENDED BENEFICIARIES OF THE PROJECT (industrial/commercial/R&D/social)	It is beneficial to teachers as its time consuming to call out the names of each and every student and mark their attendance accordingly. It eases this burden and teachers can use this time for better use.
ABSTRACT	This project is made to reduce the burden on teachers during online classes. We look into the various aspects of how to automate the attendance and came up with the idea of attendance bot. Basically, the manual method to take attendance of students is of monotonous. This also waste of time and energy of teachers and may lead to human errors instead we can use the attendance bot which use of reliable source.