Impact and Contribution of Google Tools in Current Education System

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ABSTRACT

The technology has revolutionized every part of human life, and education sector is not an exception to this. The modern tools like various apps and software have offered very effective way to deliver the education to everyone who is interested, even across the national boundaries.

Google, one of the giants in technology has developed several tools which have become popular in a very short time. The tools like google docs, is a great tool these days. The Google Classroom is one of the most preferred tools to continue the teaching-learning in the challenging period of pandemic.

In the present article we have tried to highlight few of the useful tools of google which are really helpful in the current education system.

Keywords: Google tools, Google Docs, Google Classroom, Google Language Tools (GLT)

I. INTRODUCTION

Since the 1998 Google started its journey and become the world's largest and most-used search engine site on the web. Google made a revolution imparting education and knowledge accessible for all and made changes in the study of any aspect or term.

The main goal of the company is to systematically arrange all the information in the world and make it accessible and useful to users all over the globe.

Google is trying to implement an open technology in the education system and this open technology can bring a revolution in education system according to google.

The company developed the Google Apps and the company has nearly 40 million teachers, tutors, staff members, faculty members, and students who utilizes these apps.

Education system from many countries uses google devices like Chromebooks, designed by Google to access its educational platform. Nearly more than 70 best universities are using google apps and search engines out of best 100 American universities.

Google is helping educational institutions to work on their dreams of being paperless organization, staff development and new ways of student collaboration.

Google is working hard in providing easy access to maximum students regardless of their social and economic background, giving students the experience in simple way and making innovation in various educational tools for students.

II. THE ROLE OF GOOGLE IN EDUCATION

1. **IT gives strength and confidence to students:** Google is trying to build strength and confidence in students irrespective of their age, socioeconomic status, nationality, gender, religion, ethnicity, and other such factors. It empowers the students around the globe with an advantage of all the information, learning materials, and tools for their education. Google providing an experience to students to access limitless information. It also transformed the teacher from just information explainer to flag bearers for students.

2. **It offers a wide range of information to both teachers & students:** Google offers a wide and variety range of information to both educators and students in terms of compatibility with reading and educational devices. Google providing its wide range of information on its electronic devices like a smartphone, tablet, desktop, laptop, irrespective of manufacturer and operating software. Google makes its apps and search engines accessible from anywhere like home, in school, or on the move.

3. **Services like search-engine site are free of cost and the google apps with its low cost service gives everyone to afford it.:** educational institutions and workplaces all around the globe can access Google's free search-engine site and low cost (some free) apps. Its affordable and compatible educational devices are widely used by students from different age groups and from any socioeconomic backgrounds. The maintenance of the apps and devices is very much easy and users gets very less efforts to use it.

4. **Its apps and services foster brings up high degree of collaboration and teamwork:** The Google apps and sites have changed the teaching methods as well as the learning techniques The Google apps bringing the collaboration and teamwork among teachers and students. This developing the organizational skills and problem solving approach of young students

5. **Its apps enhancing the productivity, and effectiveness of the teachers and students:** The Google apps and products are managed by best employees in the world and these apps are superfast in speed. Google products helps to improve the efficiency, productivity, and effectiveness of the teacher and students. The products of Google can be easily customizable, easily manageable and easily operated.

Google the tech giant is a multibillionaire company ruling in technology industry, providing many benefits to the world in many aspects. Its applications and services are revolutionary in many field with their great uses in various areas. Google providing many customized application in free of cost for education purpose. Many education institutes, societies implements these application in education system. These application are greatly beneficial for teachers in teaching, learning and evaluation. With these tools teachers getting efficiency in doing administrative tasks, it is helping them in professional development, performing collaborative educational projects, helping them to create more interactive activity for their students.

For students starts to learn the online application and taking participation in it,they are using it for better understanding the concepts, also using it as learning content and becoming more creative. By training in using ICT tools to teacher giving support to daily teaching and the tech giant like google providing technological tools to accomplish it. Google providing new encouragement for education innovation and supporting latest technology.

In today's world, education changing from teacher-centred instruction based to student centred inquiry-based learning
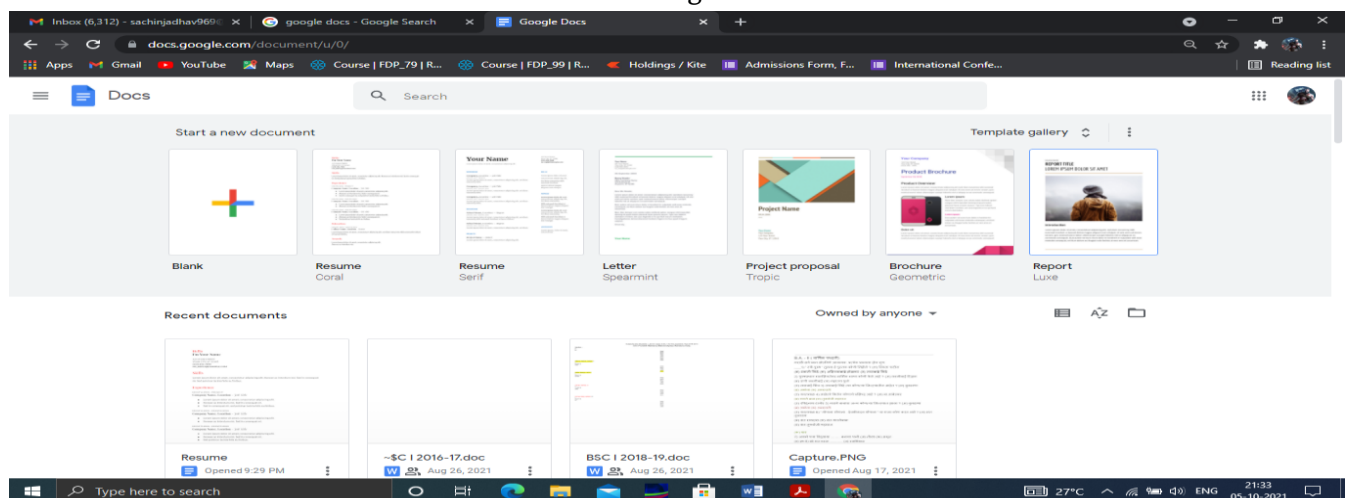
III. DIFFERENT TYPES OF GOOGLE TOOLS
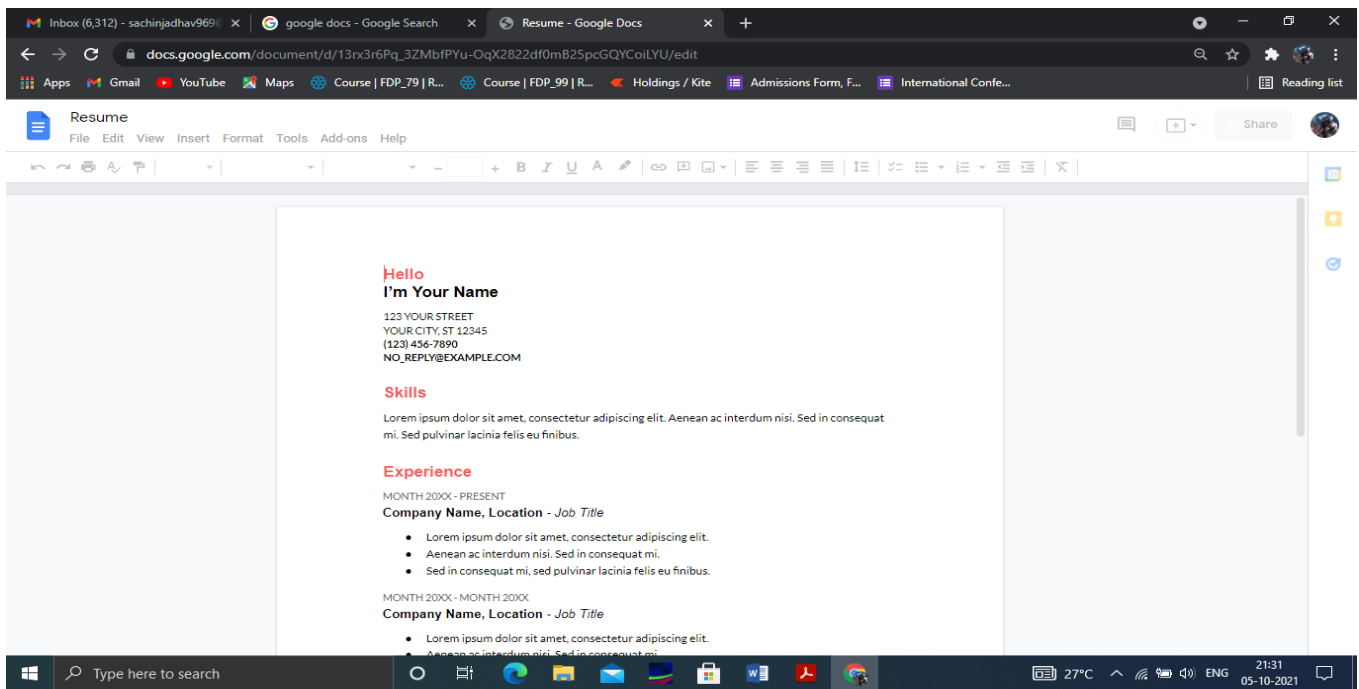
A. GOOGLE DOCS

One of the popular google tool is google docs, it is categorized as Web 2.0 technology, it is free google web based application that allow users to create and share online documents such as spreadsheets, presentations, and forms. It was released on October 10, 2006, with word processor on the basis of web and spreadsheets feature and on the September 17, 2007 the presentation feature has added.

Google docs is based on the cloud computing, networked computer system that make use of the resources of several servers to complete tasks and store data. Google Docs is not that much complex and having much have other advantages over traditional software. Google doc is not a desktop application which is not bound to the any single desktop Google docs no need to download and install on a particular machine. It need Internet to access because each user saves information to the cloud system, user can access the file from anywhere. There is no need to check about the latest version of the file to access it, it will always be saved in the Google cloud.

Another benefit is that many user can edit the same file from anywhere, this is known as online collaboration, and it could promote teamwork over the web. There's no need to worry about any unexpected change in file because Google doc allow their users to editing online and collaborate for gaining the knowledge from many users those having very little technical knowledge. Students have to engage in collaborative learning activities like group projects, presentations, and group discussion. These activities require large amount of collaboration and communication with classmates Google Docs, an online word processing application, is a potential tool for collaborative learning, there are many potential benefits of using Google Docs in an educational system students successfully utilized This new technology in their group collaborative writing. It is beneficial for student in enriching learning experiences, additionally, by using Google docs changed the system by which students communicated during their collaborative writing. Students also experienced that google doc is much better tool for communication than traditional communicative tools (e.g., Facebook and text messaging) and students also rely less on email increased use of Google Docs, Students with busy schedule has obvious benefits from Google Docs with less face-to-face meeting and near about no meeting outside of class Thus, Google Docs is well-suited as a tool for out-of-class collaborative assignments.

Homepage of Google Doc

Interface of Google Doc

B. GOOGLE CLASSROOM

Google Classroom IS CONSIDERED TO BE A part of the online Google Apps for Education (GAFE), it is packed with many applications which increases productivity in teachers and students in learning and online collaboration. This service of google is free of cost and it must be installed in at the level of educational institutions. There are many popular apps google has developed for including Gmail, Google Calendar, and Google Drive, which anyone can access are also used in educational field, Google Classroom is the main application in online Google Apps for Education (GAFE).the main use of this application is to communicate with the students, sending feedback, providing study material and homework and performing the assessment and evaluation of the students. Google Classroom is very much efficient in time saving and its organizational features are very easy and simple to use. Google Classroom start with creation of classes along with addition of students then the teachers and students can explores the features found in this application such as sending information, starting discussions, distributing and collecting tasks.

Google classroom is a Learning Management System (LMS) offered by Google for teachers. The major uses of this application are communication between students and teacher, asking question and making assignments. In today's world of technology and digitization, Google Classroom made easier the online learning for digital learners today. Like many other new application Google Classroom has its unique interface, this interface helps teachers to organize classrooms uniquely according to their teaching methods. Because at start Google Classroom is completely blank and a teacher can mold it according to their need.
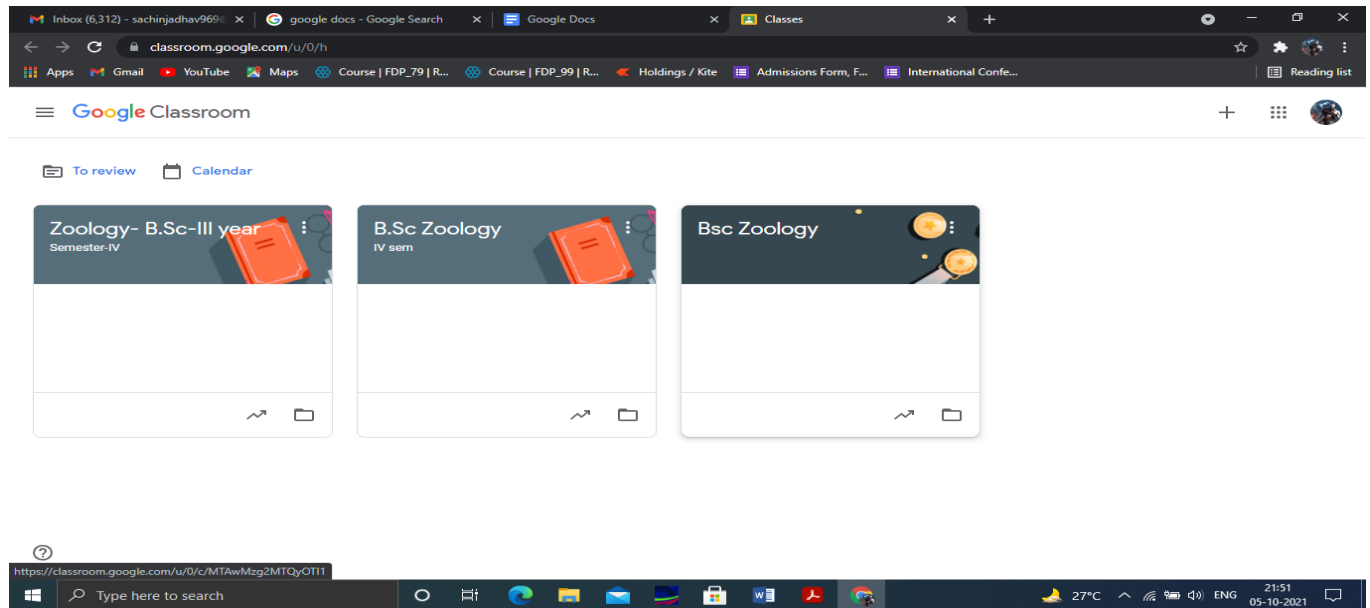
First of all, the teacher in Google Classroom have to create an online classroom for physical classes. Then the students are added in the classroom by teacher. While using Google Classroom the classes does not contain the actual physical classes but it contains the virtual classes associated with it. For example the distance learning classes and big school programs uses Google Classroom without student's actual physical presence.

A class teacher can comfortably use all the options in Google Classroom and can control what student can do on google classroom.
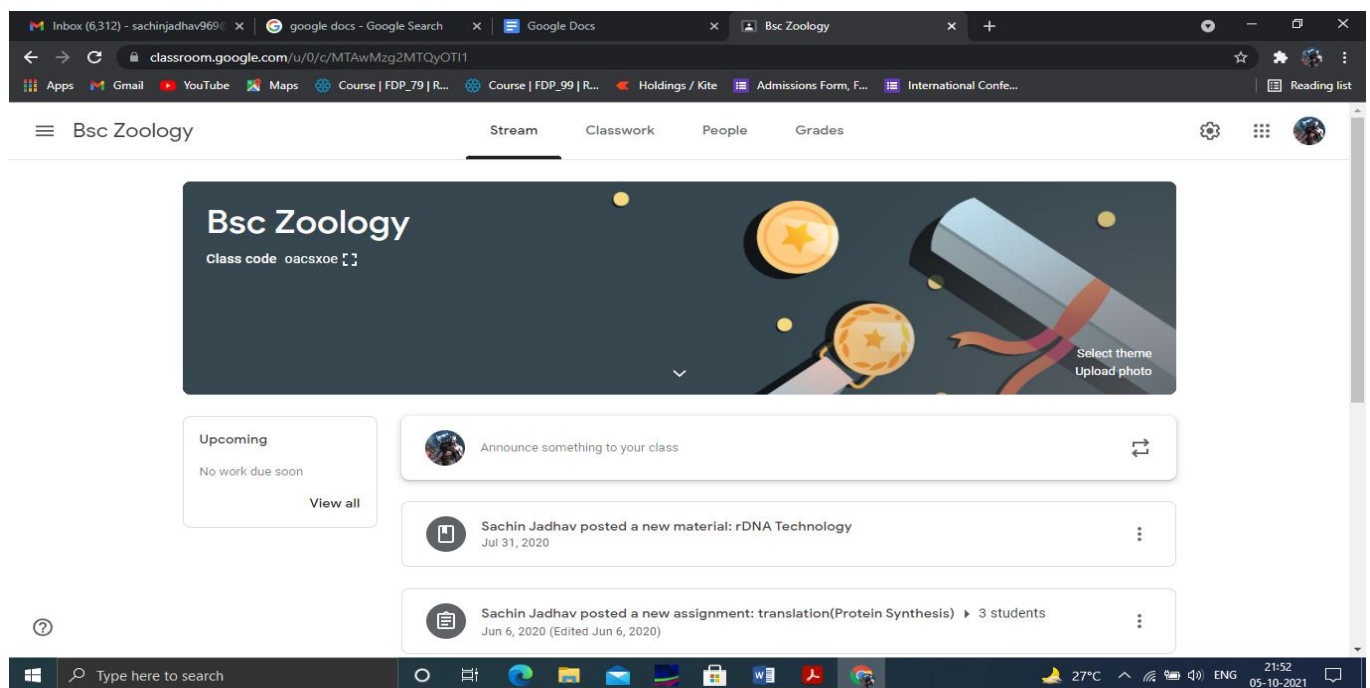
In this application there is a STUDENT section where we can find all the list of a student which are added in it. We can make changes as well as send an email to individual student or to a whole class. To use a google classroom, first we have to install Google Chrome on our personal computer, after that a teacher can display class codes to allow students to join classes and manually invite or delete students as needed.
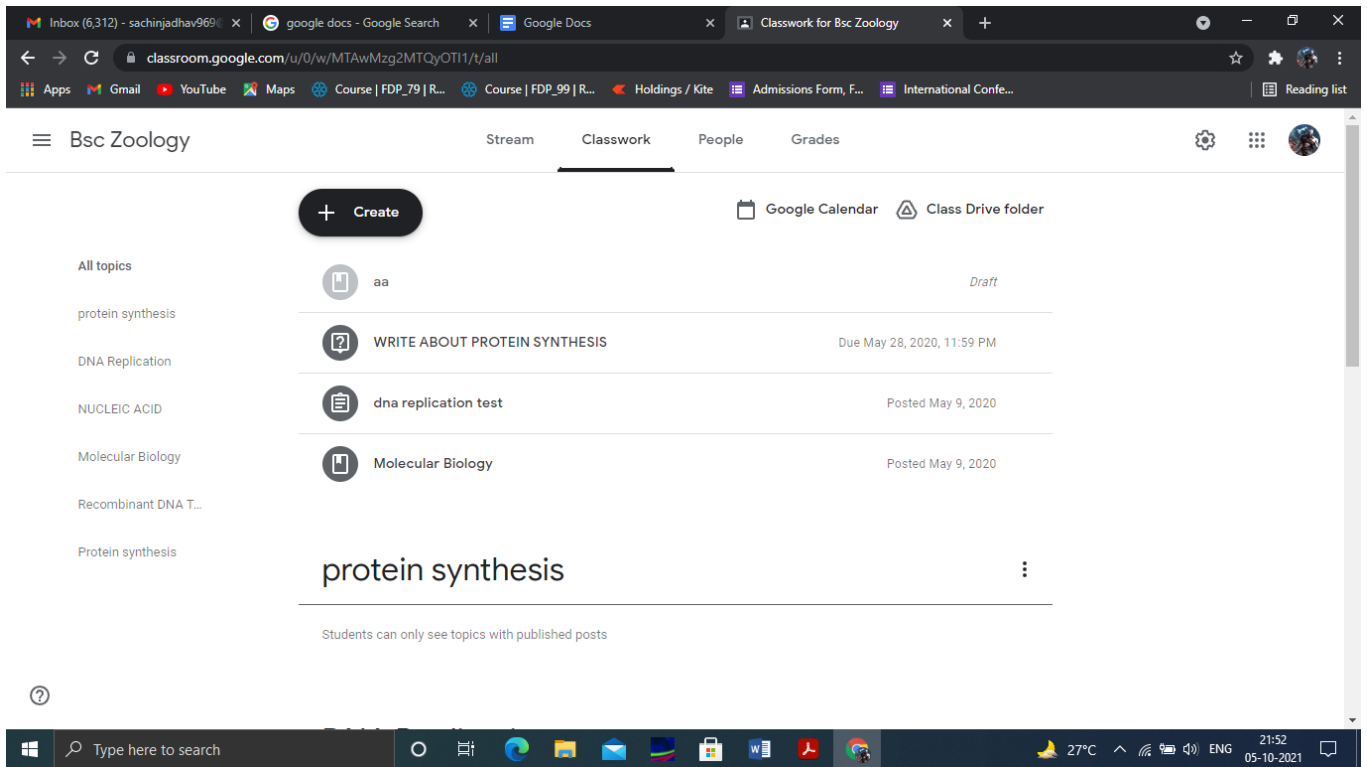
- **The Basic Use of Google Classroom**

During first time while using the Google Classroom, it will ask whether you are a teacher or student. You have to choose it correctly. If you not select that you are a teacher, the app will automatically assign you as a student. We cannot access or control all the features and options of Google Classroom unless we are assigned as a teacher.
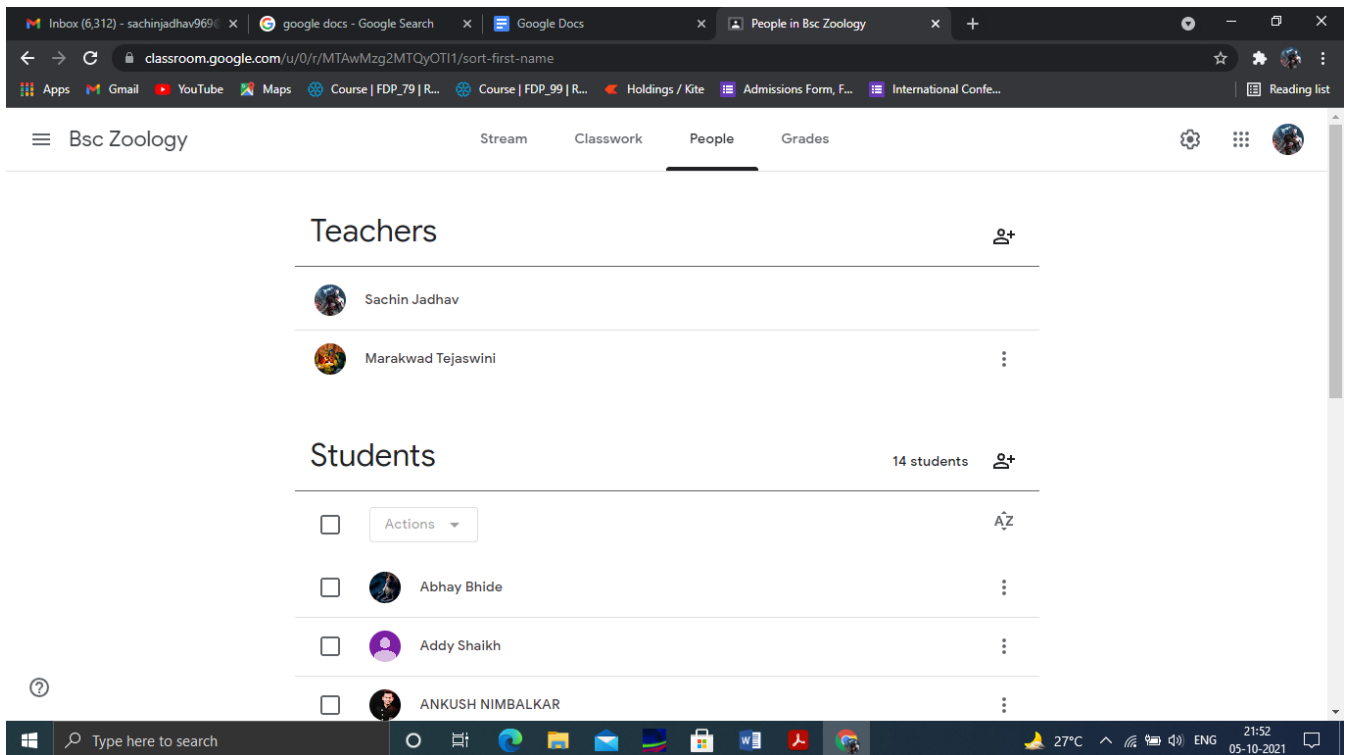
Interface of Google Classroom

Interface of Google Classroom (Stream page)

Interface of Google Classroom (Classwork page)

Interface of Google Classroom (People page)

Interface of Google Classroom (Grades page)

C. GOOGLE LANGUAGE TOOLS (GLT)

For accessing the rapid growing information web provide many opportunities to user all over the world. Web page plays crucial role in accessing the rapid growing information, Web pages are accessible on Internet and available internationally in many different language. All the web information which is incomprehensible is available in multilingual format which is also provide an opportunity directly for users all over the world. Web users find it hard to access the information online which is monolingual. The search engines which are Monolingual only give the result to users in their corresponding search engine's language. Users who don't know the other language are often unable to obtain relevant information from these web pages. User gets a limited information because of this language barrier. By considering this from 2004 search engines providing many web pages and information in multilingual formats. These search engines are categorized into regular search engines (such as Google, Yahoo, and MSN), meta–search engines (such as Exite, HotBot, and WebCrawler), and visualization search engines (Kartoo, Onlinelink, and Ujiko). Among these google is considered as best regular search engine with multiple language support. Google supported 37 different languages. This is the strongest translation tool among all the other search engines. Its translation system can directly translate the entire web without coping and pasting in a search results list. It also help in paragraph translation on 23 May 2007, Google launched its "Translated Search" in its Google Language Tools (http://www.google.com/language_tools) in addition to other language support services and tools

1) Google Language Tools (GLT) is integrated service that provides translation tools and other language support services. GLT presents its language support service on http://www.google.com/language_tools.   In this a search textbox appears in which a user type the translating word, user can select its language in which user want to search its word. User can also specify the language of the documents, it will automatically translate the word. GLT Search the search word and shows the search results in both query language and the desired
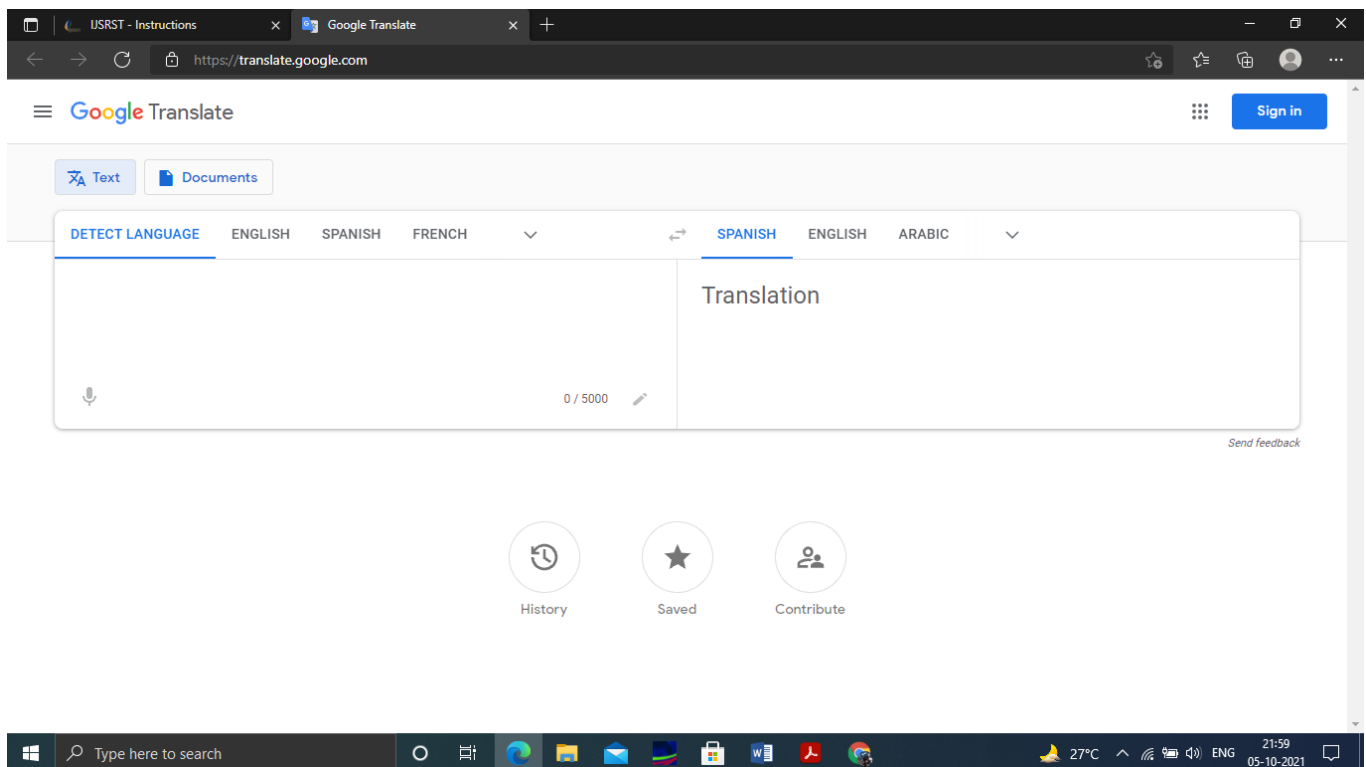
language in two separate columns.. For example to find information resources on artificial intelligence in Spanish, we type in "artificial intelligence" in the search box of GLT. We specify the query language as English from drop down menu and search pages written as simplified Spanish. For translation of word in google translation tool, google incorporated billions of words of text on its server.

GLT is a beneficial tool for many Web users. There are two types of users according to Ogden and Davis (2000) for this translating tool: bilingual users who use their native language to search the query and obtain the result in another second language and monolingual users who are interested in finding their query in other languages. GLT will be very beneficial to these two types of users, helping them to access any information on the Web.

Here are some possible uses of GLT:

- People coming from foreign country who knows little Spanish can Search about Spain government and much of central and South America related web pages as well as other documents for information about Spain.
- People who would like to invest in foreign companies can examine these companies and the market
- If student want to learn the foreign language can search their query in English to find the history in language that they want.
- Patient can find medical or treatment information from another country or region.

Google Language Tools provide multiple language support tools for Web users all around the world. These language nearly include 36 languages including monolingual search in user–desired language or country, machine translation of texts or Web pages, and online dictionary. Different types of Web users such as immigrants, investors, students, patients, and travellers may benefit from this service.

Interface of Google Translate (Stream page)

IV. CONCLUSION

Google plays a crucial role in education with making students and teachers more efficient and productive. Its apps and services develops higher degree of collaboration gives strength and confidence to student, its apps and services are free of cost (some are low in cost) which everyone can afford it and are used widely. It's GAFE (Google Apps for Education) Powerful Cloud-Computing Service on Which a Student Can Access Sit from anywhere and from Any Devices. These Platforms are used by thousands of schools and universities worldwide To make efficient use of available collaboration tools for students and faculties with the primary GOAL of improving teaching and learning. GAFE has advantages that it is considered as transformational in the educational system. Another benefit of GAFE IS GOOGLE GROUP PLATFORM, which promotes increased collaboration, discussion and QNA forums.in addition groups are used to to schedule meeting and project event among a group of classroom students.

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