



AN INNOVATIVE WAY OF ASKING QUESTIONS USING GOOGLE FORMS

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ABSTRACT

If we ask any school or a college how do you conduct the online test? The answer would be Google Form. Now, the Google Form has become a synonym for online tests. The features it provides are very useful to the faculty and learner. Any student can appear for the test with his own devices like mobile/desktop/tab. The location of appearing the test and the device to be used is independent. Not only Google forms are used for online tests, but some people also use Google Forms for a survey to do statistics/analysis in their domain. The Google service also includes Google Docs, Google Sheets, Google Slides, Google Drawings, Google Sites, and Google Keep. Google Forms is only available as a web application. The collected information can be automatically entered into a spreadsheet [6]. Because of this technology, there are limitations also exist. Students are using again Google search engine for suitable answer to the questions. It becoming very tough for faculty to know the ethics of the students. The marks are appearing for the student is real or not. To avoid these type of problems, here, we are proposing a solution and it is implemented. The results are also proven true. Finally, this paper provides an innovative solution for the faculty. Using this solution students cannot copy the question from the Internet.

Keywords: Google, Online Exam, Survey, Excel Sheet, Google Form

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Introduction

From past one decade or so the internet became an important source of knowledge and an effective medium for information sharing. For everyone of us, it is providing a range of new opportunities for collecting information, networking, conducting various surveys, collecting data and disseminating results to the needy people. Electronic mail, e-journal, online submission of articles to journals, online focus groups, online video conferencing,

online classes and online questionnaires' are some of the latest tools opened-up by the internet.

Google Forms is a free online tool from Google which allows users to create forms, surveys, and quizzes as well as to collaboratively edit and share the forms with other people. Educators can use Google forms to assess their students at the beginning of the class and gauge pre-existing knowledge. Furthermore, Google forms can be used to give feedback to and



receive feedback from students and parents. Similarly, students can use Google forms to assess their own learning and set the learning goals as well as to collect data for their research projects.

A continuous procedure with a considerably greater scope is an assessment. It is an effort to gather data on a regular, ongoing, and thorough basis on the course of and outcomes of the growth and development that children have attained through learning activity programmes. In a practical classroom, teachers must overcome several challenges to evaluate students' performance. One of the challenges is that the instructor needs a lot of effort and time, especially in big courses, to evaluate the competency of the pupils. Therefore, the process of assessment is considered an overwhelming activity [15]. Schools and instructors find it challenging to assess students, particularly in the contemporary climate where learning is done virtually through internet tools. As a result, effective alternative learning assessment techniques are sought after by schools and teachers.

Technically speaking, evaluation is typically done using a method that relies on paper. However, the traditional evaluation approach changes to a technology-based one as a result of the quick technological advancement in language classrooms. Google Forms is one of the most popular tools for evaluating student learning. It is one piece of software that is simple to use, free to use, accessible, and pretty well developed as a tool for assessing the learning process. During the COVID-19 epidemic, it is also one of the greatest options for alternate learning evaluation methods that are efficient and simple to use.

A feature of the Google Docs service is Google Forms. The Google Form for education performs a variety of tasks, such as delivering surveys to users online, collecting comments from users, gathering various student and instructor data, and

creating online registration forms for schools.

Research on the use of Google as a learning medium, evaluation, registration form, and assignment has been carried out by several researchers, such as [2]. Some find that, as an unconventional formative assessment tool, Google Form has been successful in accommodating students' feedback for the improvement of the course instruction [9]. However, if the instructions are not carefully designed, the Google form may be rendered useless. It is important for teachers to maintain the students' privacy in the spreadsheet result sharing [4]. A Google form can be considered by teachers as a learning evaluation instrument and as an alternative to making online questions [19].

2. LITERATURE COLLECTION

Google Forms is a service that allows you to collect information via simple web forms. One of the useful features is that the forms will automatically save your data to a Google Sheet. This article will walk through how to create a form, authenticate using and read all the responses into a pandas data frame. Because the initial setup and authentication process is a little time consuming, this article will be the first in a two-part series. Why would someone want to use pandas to read a Google Sheet? The key functionality this setup provides is a simple way to allow a large number of people to provide you information and collect it all in a single place. You can then analyze the data with the full power of python and pandas. Google takes care of making sure that all the data gets consistently entered into one clean format - no matter how many people access the form. This blog has mentioned many times about how Excel can be a great tool but is so often abused and made to do more than it really should. One use case I have seen is creating a simple Excel-based form which someone sends to people to fill out, and then collate into a master spreadsheet. This process is



extremely manual and error prone. Google Forms is a possible alternative to the spreadsheet wrangling you might do with Excel. The other scenario is that sometimes you need a very simple UI to capture information and act on it. Once you start to play around with Google Forms you may realize that there are other uses for it outside of the standard survey process.

Google Form *is* freely available, Easy and simple to use and, Mobile-friendly (mobile-responsive). Google form supports Unlimited surveys, Unlimited respondents, Survey answers and data are automatically collected in Google Spreadsheets, Lots of theme options, Add custom logo, Add images or videos, Skip logic and page branching, Embed survey into emails or website, Add collaborators, and 100% free!

More criteria are available and a more comprehensive automatic scoring system is provided by Google Forms. When utilising the tools to create quizzes, it includes choices for randomising the sequence in which responders see the questions. Only an overall randomization option is available in Google Forms. With Google Forms, you can create more precise response validation criteria based on number, text, length, or regular expressions, forcing users to respond in a particular way. When an answer does not follow the rules, error messages can be customised. This helps ensure cleaner data by, for example, verifying that an email address entered is truly structured as an email address.

Technically speaking, evaluation is typically done using a method that relies on paper. However, following COVID-19, the traditional evaluation method changes to a technology-based one as a result of the quick technological advancement in language classrooms. Google Forms is one of the most popular tools for evaluating student learning. It is one piece of software that is simple to use, free to use,

accessible, and pretty well developed as a tool for assessing the learning process. During the COVID-19 epidemic, it is also one of the greatest options for alternate learning evaluation methods that are efficient and simple to use. A feature of the Google Docs service is Google Forms.

The Google Form for education performs a variety of tasks, such as delivering surveys to users online, collecting comments from users, gathering various student and instructor data, and creating online registration forms for schools. Google Form may also be used to evaluate students' English skills. The results of the daily evaluation showed that virtually all pupils could follow and put into practise, with the exception of a few who weren't engaged right away because they lacked internet resources. The teacher has an alternate evaluation technique that is done offline particularly for students' homes, as is done throughout the offline learning process, for students who are unable to engage in assessment activities utilising Google Forms.

The Advantages of Google Form is a web-based app used to create forms for data collection purposes [22]. Google Forms may be used by instructors and students to create surveys, tests, and registration forms for events. The web-based form may be sent to responders by sending a link, emailing them, or inserting a link to it into a blog post or web page. The form's collected data is normally kept in a spreadsheet.

Although there are other online survey apps, Google Forms is an excellent free option. Using these forms we can create surveys to meet curriculum objectives. Learning objectives typically include research design, data collection, data analysis, and reporting outcomes. In the engineering and science curriculum, scientific inquiry should be listed as a



learning objective, which includes asking questions, collecting data, organizing findings, analyzing and interpreting data, and communicating results. The great news is that Google Forms can help students meet curriculum requirements. students will be able to pose a meaningful research question, select a sample group from the population using an appropriate sampling technique, design a questionnaire without question bias, administer the survey, analyze the data using graphs, data tables, and pivot charts, and draw conclusions from the data. Google Forms is also useful tool for meeting objectives.

Various Types of Questions can be asked. We may ask both open-ended and closed-ended questions using Google Forms. We can collect data using drop-down options, multiple choice, checklists, rating scales, and text boxes for brief replies.

The sorts of inquiries that may be used in a Google Form are listed below:

- Text
- Paragraph Text
- Multiple Choice
- Checkboxes
- Choose from a list
- Scale
- Grid
- Date
- Time

We use data entry validation options to manage entry also. A rule used to ensure that the information is accurate and/or helpful is known as data validation. Numerous options are available in Google Forms for managing respondents' responses. In order to prohibit responders from skipping a question, questions can be configured to require. You can limit a number or text to a certain entry, character limit, or range. The options that may be checked off a checklist may be limited. Additionally, the options for a question can be rearranged in order to prevent choosing being influenced by where they are on a list. Google Forms' validation

features aid in enhancing the accuracy of the data entered.

Utilize Themes to Produce Professional-Looking Forms we may design a form with a professional appearance using Google Forms. More than twenty pre-set designs are accessible as possible themes for you and your pupils to choose from. A unique option also encourages imagination. You may alter the header, text, form background, and page background. It is enjoyable to browse the collection of header pictures.

Multiple Form Administration Methods allow students may use Google Forms to collect data in a variety of ways. A form that allows respondents to submit their comments directly from their Inbox can be put in an email's body. It is possible to create a link that will direct users to a web form where they may react to the questions. Another choice for data collecting is to develop code, which can subsequently be incorporated into a blog post or website. Additionally, the form may be turned into a PDF file using Google Chrome if a paper and pencil technique is preferred.

The majority of communities hold recurrent events every so often in specific locations, and community administrators may easily plan a trip using Google Forms. Two examples are study trips and camping. Google Forms may be used by committees and administrators to manage event registration, create quizzes, collect email addresses, and more. The Google Forms tool's forms are responsive, making them simple to create, amend, and reply to on screens of all sizes. Users of Google Forms may simply distribute forms, surveys, and other documents to the intended recipients by using the share link. You may email this link to someone or post it on a social network. By using the shared link, anybody may quickly comment or offer input. Thus, even when respondents are spread out across different locations, time zones, or even continents,



the data collector will be able to obtain a direct answer from them.

3. MATERIALS AND METHODS

When question was asked in the text form. Students can copy the question and can ask google to find the answer. Intelligent google can search the answer and shows some tips to the student. Student can answer the question without any struggle. To avoid these type of copying one suggest is covert the text into image. The text can be converted into image in a easy manner. Copy your text, go to paint brush and save it as jpeg or png format. Insert this image into google form. This way, we can stop the copying the question. If students want to search this question in google. He/she has to type in the google search engine. This consumes a lot of time. This type of logic is suitable when the examiner asks the student to complete the test in a time based manner.

3.1 Show Question using Video format

To avoid copying, staff can make a video of the question using video editing tools. In the market, there are various free video making tools like openshot, Invideo etc are available. A video also helps the staff to explain elaborately about the question and might it helps the student to understand the question in a detailed manner. To show the question to the student, staff can use the help of YouTube features like upload and staff can the URL of the YouTube video to the students. In the google form, the options to the questions would be provided. The student can answer to each question after understanding a question from YouTube URL.

4. RESULT AND DISCUSSION

The Result of the image based question asking method is innovative than the traditional type of questioning. The bright student felt very happy of new method. All

students felt, this type of technique is very innovative than the previous.

A test was conducted with 20 questions. Test – 1 was conducted with simple text and student performance is amazing. All of them got more than 80% marks. While the Test – 2 was conducted in an image format. The percentage of marks secured are in between 50 – 60%. The impact of asking a question through image format, have given correct judgement about student performance. Below is the graph of the Test – 1 and Test - 2.

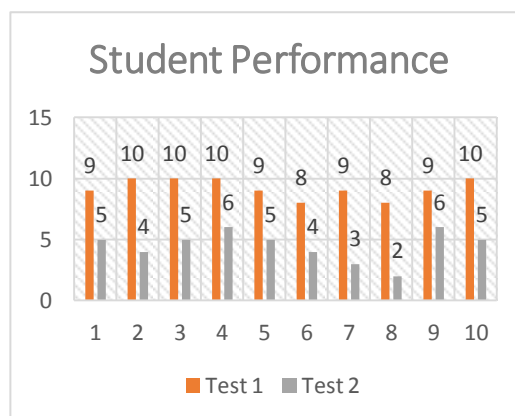


Figure : Comparison between Test 1 (Text Based questions) and Test 2 (Image based questions) Marks.

The Result of the video based question asking method is another way of asking questions. Almost all the students felt very happy of new method. All students felt, this type of technique is very innovative than the previous.

A test was conducted with 20 questions. Test – 1 was conducted with simple text and student performance is amazing. All of them got more than 75% marks. While the Test – 2 was conducted in video format. The percentage of marks secured are in between 50 – 60%. The impact of asking a question through video format, have given correct judgement about student performance. Below is the graph of the Test – 1 and Test - 2.



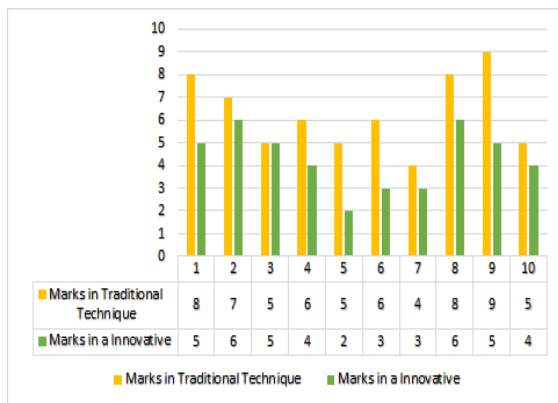


Figure : Comparison between innovative of asking questions Vs Traditional technique

5. CONCLUSION

The use of google forms is Easy to learn , Can access your form or your data from any computer connected to the internet , Survey responses are automatically recorded in a google spreadsheet, and can be downloaded in several common formats (including *.xlsx, *.ods, and *.csv) . Google form can be used by any google user can create google forms, but some university account with google has some additional features and options that non-university accounts do not have. Google forms are directly linked to a backend Spreadsheet in which the data automatically gets saved you anyone fills up the form. Google Forms is a simple online survey platform with some basic, limited features. It's so handy for doing small, personal surveys. It is very suitable to conduct objective type examinations. In the market, the Other Google Form alternatives like Microsoft Forms, Cognito Forms, Formstack, monkey survey are available. Those have familiar with google services, the google form is very handy. The results have shown the real performance of students. The importance of assessment in the learning process cannot be overstated. It is the procedure for gathering and analysing data in order to assess the success of student learning objectives. Assessment used to be done on a paper-based approach in the past. The system now relies heavily on technology.

Google Forms is one of the most popular tools for evaluating student learning. During the COVID-19 epidemic, it is one of the greatest options for alternate learning evaluation methods that are efficient and simple to use. Using Google Forms as an evaluation tool for university exams has a number of benefits. Using Google Forms, instructors could design surveys to fit curricular objectives, ask different sorts of questions, use validation capabilities to manage data entry, create forms that looked professional using themes, and receive speedy responses and reply promptly from any location. The teachers should do various "preparatory phases" to sabotage a Google Forms exam. The next step is for the teachers to develop phases like assignment identity, student name and ID, worksheet content, and execution. The link model, audio-visual model, and narrative model are based on the worksheet's final results.



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