

The study of Google Form -Digitally Enabled survey tool used in academics

Doifode Sonali Pandurang¹,Dr.Kelapati²,Dr. Kalyan Jagdale³

1.(Research Scholar, Department of Computer Science, Shri JJT University, Rajasthan)

2. (Assistant Professor, Department of Computer Science, Shri JJT University, Rajasthan)

3. (Assistant Professor, Department of Computer Science, Shri Ramkrushna More College Pune, Maharashtra)

Corresponding Author: Doifode Sonali

Abstract: *The study is related to Google Forms add-on. How to extend the functionalities of Google forms using third party services? Available add-ons at the time of research are considered and listed here. Most Popular add-ons are identified based on the different website surveys. 5 websites data considered as a sample. At the end of study, it is observed that 10 add-ons are used frequently. So that popular add-ons features and functionalities are described in this study. Many add-ons are available and used in different studies but here most frequently used add-ons are considered.*

Keyword: Online survey tools, Google forms, Add-ons, online assessment, third party services

Introduction: "Digitally enabled" is a fascinating phrase that is used to describe everything that is made possible by digital tools, media, or technology. Once technology is applied to something, almost anything may be made digitally-capable.

Survey platforms on the internet can be used to electronically gather answers to questions from an audience of interest. Numerous question types, such as multiple-choice, ranking, open-ended, and others are included. Numerous survey tools are available to use in academics

Anyone with a Google account has access to a free cloud-based office suite from Google. Because there is no paywall and you can conduct as many surveys and receive as many results as you like, Google Forms is well-liked.

A Google tool for building data collection forms is called Google Forms. Students and teachers can use Google Forms to make surveys, tests, feedback forms, and event registration forms. Respondents can be given access to the web-based form by sending them a link, an email, or by embedding it in a blog post or web page. The data collected via the form is often saved in a spreadsheet. Although there are other online survey applications on the market, Google Forms is a fantastic free choice. Users can design and edit data collecting forms using Google Forms, a web-based programme developed by Google. A spreadsheet will be used to store the data that was obtained through the form. Teachers can utilise Google Forms, a free online application, in the classroom to encourage student engagement, involve them in their education, and monitor their development. Additionally, it is easy to use and helps instructors grade assignments more quickly and with less wasted time. According to the report, Google forms and their add-on have a significant impact on e-learning. With the well-known add-on Certify Em, Form creator, and form limiter, teachers use online forms from Google to conduct surveys, take tests, and collect feedback. Teachers concur that Google forms can account for up to 100% of e-learning. To comprehend and utilize Google forms for e-learning successfully, they require training. Security and customization need to be given considerable thought. Some teachers seek more advanced capabilities since they are dissatisfied with the current functionalities. The Form help center is providing assistance, but not everyone is happy with it. Teachers speak out for the need of an integrated add-on since they frequently do not want to seek for an add-on from a third party.

Literature review:

Rinaldi et al., (2022) Using Google Form will require teachers and students to be more active and creative, especially in the field of technology. Teachers can use Google forms for online assessment in classroom learning. Google forms increase student's activeness during teaching and learning

Paper form (Nov 2022) Google Form is the ideal choice for sharing forms or surveys with your organisation. There is plenty to be found in the Google Workplace Marketplace. Although the

extensive add-ons library is fantastic, it simply highlights how restricted Google Forms is without them. Some popular add-ons are Certify'em, Formlimiter, Email notification, Form Ranger, Pictographr etc.

Adelia (2021) Google form used as a development of assessment tool in English Language Teaching (ELT). It can be easily replicated and extended by teachers to aid in ELT. Google form is best solution for alternative learning assessment tool. With the help of Google forms teachers take surveys, ask various types of questions, different validation option for data entry in the form.

Preeti S. (2021) If Add-on like certify'em and autocrat are used to generate a certificate, the certificate is automatically sent to the participant via email within a few seconds of filling of the form. The E-certificates are crucial since they show a person's passions and interests and serve as evidence that they participated in a particular event.

Musdalifah Y. (2021) Google form used for evaluation and also helpful to increase subject knowledge. It can be done by using it as a media for students exercising. So that it can give big impact on the students' learning achievement at the end. They can utilise it to raise their score by practising more by taking quizzes or other kinds of tests that can be set up in Google-form.

Sage Isabella (2021) Google Forms is a free service provided by Google that allows users to create their own forms online and share them with an unlimited amount participant. Google Forms is a popular application but it is under development. Nearly all survey takers had either taken or created surveys using the service more often than every two weeks. Yet, over a quarter found the responses feature inadequate for their needs.

Alharbi (2021) Google Forms as an online formative assessment tool through three variables, namely perceived usefulness, perceived risk of cheating, and perceived self-efficacy. Additionally, the study qualitatively discusses EFL teachers' perceptions to determine the advantages and disadvantages of using Google Forms as an assessment tool, on public secondary school students, in the Saudi context. The significance of online formative evaluation using Google Forms in EFL classes will be made clear to educators, administrators, and academic institutions as a result of this research. Online exams are preferred by students because they can cheat more readily and by teachers because they lighten their burden. However, we must close the gap by proctoring student assessments.

Nuril(2021) Google forms can greatly increase the efficacy of online assessment. Students did not face a difference between google form assessment and Paper based assessment for short questions but for descriptive questions they faced problem of time and speed. Students have a positive view on online assessment. In fact, doing an exam online opens more possibilities to cheating, since their teachers cannot directly proctor the process of the exam. The use of Google Form is also making teachers unable to monitor student. Students could easily copy other reference sources that are widely spread on the internet.

Sandhya S (2020) ICT playing an important role in higher education in 21st century. It makes education simpler and vibrant to all parts of the nation. Google form is also part of ICT tool and playing important role in data collection for various courses by the organization. With the help of Google form getting more responses as compare to traditional method. Google form can easily integrate with other Google products like Gmail, drive sheets, docs etc. It providing security to data according to IT act 2000.

Angela (2020) Google form used as an EFL assessment tool which saves time, cost and money and produces summarized results. But the problem occurred was a mismatch in answer type- scoring issue, difficult to assess students for descriptive answers. Tools issues found. Network connectivity and device issues.

Andrew Kalnow (2019) When lectures are replaced for Google Forms in blended learning sessions, the student is more engaged, and knowledge is more effectively transferred and retained. A venue for effectively and easily resolving a number of these issues is offered by Google Forms. It is crucial to deliver educational sessions that involve and educate the student. The use of Google Forms offers a platform to engage the student and promote independent learning while guaranteeing the presentation of fundamental ideas. They also support online learning and record group participation.

M. Siva DurgaprasadNayak (2019) Different methods used for data collection. Ethical considerations in online surveys are anonymity, confidentiality and privacy. Anonymity means not to disclose name, confidentiality refers to not to disclose opinions, privacy concern with personal information of the participants. With the help of available Google forms add on we can achieve objectives.

Endah N. (2019) Utilization of the Google form in this study has produced a conclusion that can be made a recommendation for campus management. Google forms are important for students satisfaction survey which will provide well format information with detailed analysis.

Andrew (2019) Google form is a way to integrates well into didactic and other education settings which includes all level of learners like medical students, residents, fellows and attendings. Blended learning improved the knowledge translation and user experience of teacher and students. The learner should be able to create a didactic session utilising Google forms. Google form used as a platform to deliver web based didactic and asynchronous learning.

FirasFathi Ali (2018) Google Forms always provide smart and endless possibilities to maximize chances of success and get the job done with less time and less effort. With Google Forms everyone wins eventually

R.Sivakumar (2018)

A web-based tool called Google Forms is used to design forms for data collection. Google Forms can be used by teachers and students to create surveys, tests, and registration forms for events. Using this tool, teachers may easily administer tests to their students. Once all of the students have completed the test, the instructor can take it themselves, answering ALL of the questions correctly. To gather data of any size for a number of purposes, use Google Forms. Prior to starting a course, it might be used to gauge student knowledge, arrange a field trip, gather contact information, create a fast poll, gather email addresses for a newsletter, and more. Forms can be used by teachers for a range of productive tasks. In order to create surveys for their departments or groups, educators can work concurrently with their coworkers. Forms can be used for lesson preparation, questionnaires for personal growth, as well as evaluation forms.

Nguyen (2018)

Higher education uses student response systems, however there are differences between classroom evaluation and learning. Google form is used for a variety of things, including assessments and feedback surveys. It aids in both formative and comprehensive evaluations of the student. We can utilise Google Form, a free online application, to engage the pupils. In comparison to a regular assignment, it saves time and money.

BudieAgung(2018)

A great alternative for educators to use for carrying out assessment tasks that demonstrate the benefits of being efficient, effective, and student-attractive is evaluation of google form-based learning. Google Forms offers pre-made templates and blank forms for carrying out a variety of tasks. As a good reaction to the advancement of the globalization period, the use of technology in learning activities can still be enhanced and extended in the field of education.

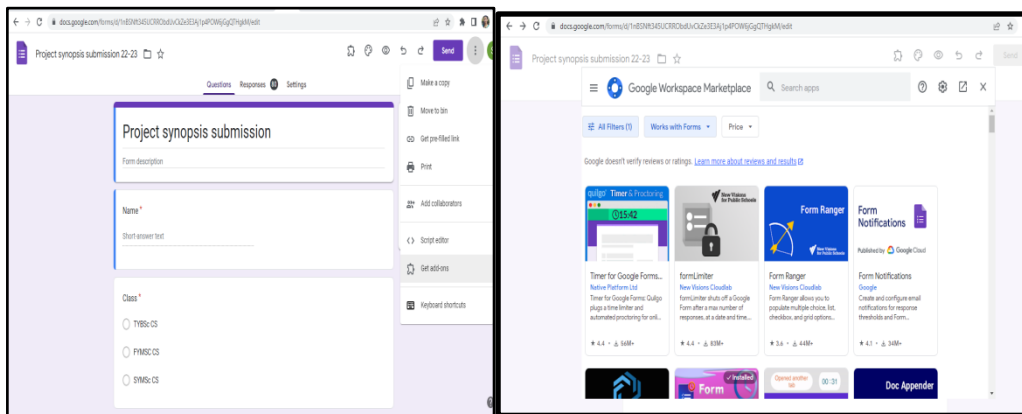
Objectives:

- List and analyse each Google form add-on that is currently accessible
- Gather statistics on the top add-ons based on secondary data
- Identify the top 10 add-ons that are often used.
- To determine the add-ons' features and functions

RESEARCH METHODOLOGY

- The study is designed as a literature review
- Study of existing Google forms add-ons and Identification of data by using product information of that product, blog and websites.
- Based on web survey find top 10 add-ons.

List of Google forms add-ons available in Google forms Add-on marketplace.[W1]



Sr. No	Name	sr.No	Name	Sr. No	Name	Sr. No	Name
1	Quilgo Timer and Proctoring Timer	11	Snip	21	Choice Eliminator lite	31	Form Director
2	Form limiter	12	Problem-Attic Import	22	Control Accepting response	32	AppSheet
3	Form Ranger	13	Mail Merge	23	Choice Limit, Choice Limiter, Choice Eliminator 2	33	Fillable Document
4	Form Notification	14	Email notifications	24	Form Timer G clocked	34	Form Scheduler
5	Hypatia create	15	Certify'em	25	Signature	35	Form Choice Limiter, Eliminator, Limit, Removal
6	Form Presenter+Timer	16	Form Timer	26	Formfacade	36	Dynamic Fields - Update Forms questions
7	Timer + Proctor Google forms	17	Form Builder	27	Form Limit Response Limit Form Limiter	37	Form Duplicates
8	Doc Appender	18	Flaticon	28	Advanced Summary awesome table by	38	Word Generator Cloud

9	Timer for Google Forms	19	Form Approvals	29	Ultradox	39	Form Builder Plus
10	Form Publisher	20	Document Studio	30	QR Code Generator	40	Form to Calendar

Sr. No	Name	Sr. No	Name	Sr. No	Name	Sr. No	Name
41	Other Etc	51	Form confirmation emails	61	Simply Send	71	Timer for forms and basic Proctor
42	Voice Notes for Google Docs - Beep	52	Free Icons photos and illustration	62	Survey Monkey	72	Calender event Booking
43	Booking Calendar	53	Limit Choices, Limit Options, choice eliminator 2	63	Fmath editor suite	73	Bolo Approvals for Google form and workflows
44	Free Icons For Docs/Sh	54	Portant document merge	64	Form maker question bank	74	MailReceipe
45	Advanced Form Notifications	55	OKIOCAM for google forms	65	Data director original	75	Choice Eliminator for google forms-Choice limit
46	PerformFlow Form Aproval workflows and notifications	56	Whats Target	66	Oudercontacten	76	Magic make Copies
47	Fast Form On Off	57	pdfFiller by Google Form	67	PaperScorer	77	FormEmail Notification
48	Smartsheet for Google forms	58	CheckItOut	68	Bolo forms Timer + Proctor and Form prsenter	78	Chemistry Problem Generator
49	Form to Email	59	Add Emojjis to document	69	GIFT Editor Quiz	79	Forms to AODocs

50	Chat Forms	60	Near tail	70	Payable Forms	80	Form code generator
----	------------	----	-----------	----	---------------	----	---------------------

Sr. No	Name	Sr. No	Name
81	FormsHistory	91	Emoji Sidebar
82	Send Certificates-Certify your exam takers	92	Quickexam
83	Font Upgrade	93	Accents Keyboard
84	Form to chatboat	94	Form Response Limiter -Form Limiter Form Schedule
85	Start and stop form by date and time schedule	95	Form Notifications SMTP
86	Scorecery	96	kuizical - Create retrieval written & MCQ quizzes
87	Form Field Limit Removal	97	Form Postman
88	Negative marking Negative grading Negative points	98	Form to HubSpot
89	Choice limiter	99	Form Choice eliminator 3
90	Form Notification-Form Notifier	100	Free Clip Art

Most popular add-on among the above are:

According to website information [W2] top 7 Google forms add-ons are-

formLimiter	Choice Eliminator 2	Booking Calendar	Doc Appender
Dynamic Fields	Certify'em	Google Analytics	

Teachers Tech providing 11 best add-ons as per productivity [W3]

Survey Monkey	Quilgo-Timer	Form Publisher	Certify'em
FormLimiter	QR Code Maker	Form Ranger	Booking Calender

EmailNotifications	Pictographr	FormRecycler	
--------------------	-------------	--------------	--

Top 20 add ons data by Medium.com but here we are considering only 10 among the 20[w4]. These are-

DataScope	PDF builder	Timify-Quilgo -Timer	FormLimiter
Form Publisher	Choice Eliminator lite	Certify'em	Form Ranger
QR code maker	Survey Monkey	Booking Calender	Dynamic Fields

The Geek Page providing list of 15 innovative Google Forms add-on [W5]. Here 12 add-ons are considered as a part of study.

Timify.me-Timer	Quilgo	FormLimiter	FormPublisher	Dynamic Field
Choice Eliminator Lite		Booking Calender	Certify'em	FormRanger
QR code maker	Survey Monkey		CheckItOut	Advanced Summary

Infiflex providing the 12 most powerful Google forms add-ons are [W6]:

Survey Monkey	Form Publisher	Email Notification	Booking Calendar
Form limiter	Form Ranger	Certify'em	Choice Eliminator 2
Form Recycler	Pictographr	Bkper forms	Form Notifications

Based on above secondary data here is list of 10 add-ons which are frequently used

FormLimiter	Booking Calendar	Certify'em	Quilgo-Timer Timify.me
Form Ranger	Choice Eliminator	Form Publisher	Dynamic Fields
Email Notification	QR Code Maker		

Detail description of frequently used add-ons as follows [w7]:

1.FormLimiter: With the help of formLimiter, Google Forms can be built to automatically stop accepting responses once a certain number have been received, at a specific time and date, or when a certain value has been entered in a spreadsheet column.

Excellent for deadline-driven tasks, events with limited seats, or other first-come, first-served registration scenarios.

easy setup, simple starting, setting of the limit type, and saving.

The greatest number of answers conceivable – The form evaluates each contribution that is received before ceasing operation when a limit is reached.

Exact time and date - That particular second on that particular day will mark the timer's end. Calculator cell value is equivalent to Set the value that a cell in a spreadsheet must match in order for the form to be submitted.

2. **Booking Calendar:** It is easy to set up and quite useful. It enables the replies to the form to schedule the meeting using the calendar of the form administrator.

According to the admin's predefined rules, the add-on automatically loads the events from Calendar. The participant list for the appointment the respondent arranged additionally includes his name.

3. **Certify'em:** Teachers can create and email personalised certificates to quiz or assessment takers, rankers, and attendees using Certify'em. We employ simple techniques for a range of activities, including... This add-on is designed to evaluate and monitor the knowledge or skill of coworkers, students, parents, or other staff members. We also utilise this to demonstrate certification verification for people who are associated with our company, club, sports team, or school.

With Certify'em, it is easy to run an online certification course, showcasing Google Forms' true potential. You can send personalised PDF certificates to each person who passes an online test on their email address with a few basic controls and settings. It would take a very long time to provide them if they weren't certified.

Using Certify'em, which also offers a number of well created certificate templates, you can specify your own certifications created in Google Slides. After passing the specified exam, each participant will receive a copy of the certificate that is uniquely theirs as a PDF email attachment with a unique Certificate ID. The owner of the exam will be able to keep track of who has passed and who hasn't using the spreadsheet of data that Certify'em automatically creates and updates.

4. **Timify.me-Quilgo - Timer &Proc:** Quilgo offers cheating detection tools, video recording, and timer countdown tracking for your Google Forms. Additionally, it shows how frequently people focus on each question. Quilgo uses Google Forms to create exams and evaluations of online skills. Quilgo can be evaluated by HRs, colleges, universities, and other educational institutions.

5. **Form Ranger:** Form Ranger allows you to leverage columns of data from any Google Sheet or Doctopus roster to automatically fill in checkboxes, grids, and list inquiries.

6. **Choice Eliminator 2:** This add-on will assist teachers in making online appointment, viva, or PTA schedules. The chosen spaces from prior students are removed by this addition.

7. **Form Publisher:** It works with both Google Forms and Form Publisher. One document is generated for every Google Form that is submitted. With Google Sheets, creating documents in mass is quick and simple.

To quickly create personalised documents from Google Forms, just transform spreadsheet rows or form submission data into beautifully designed PDFs, Google Docs, or Office documents. The Google Forms add-on allows you to send them via email for online review and signature as well.

8. **Dynamic Fields:**

Create dynamic option boxes in Google Forms by using dynamic fields. Google Sheets, Google Contacts, Google Groups, and other services can all be used to supply and update the values for multiple-choice, drop-down, checkbox, and grid questions in Google Forms.

9. **Email Notifications:** Using Email Notifications for Google Forms, you can send emails right away whenever someone fills up your Google Form. Depending on the form responses, the notification rules you establish, the form respondent, your team members, or the form respondent, you can send emails to a variety of people.

The notification emails can be personalised, and you can add any form field, including quiz scores, in the email topic or email body by using the form field title notation. HTML email is an additional choice for business communications. The Email Forms add-on may also instantly push notifications to your iPhone, iPad, or Android phone whenever a new application is filed. The mobile notification can include answers to the respondent's questions that were provided via the form. If you've added any File Upload fields to your Google Form, the email message will include links to the uploaded file in your Google Drive. As a result, you don't need to look for the files in the Drive; you may access them

directly from the email. Dynamic barcodes and QR codes may also be incorporated in emails generated from form submissions. Send files to the respondent once they submit a form. Documents in PDF, Microsoft Office, music, video, zip, and more formats can be attached from Google Drive. Webhooks with form data should be sent to outside web services. During the Coronavirus (COVID-19) crisis, schools and organizations can quickly contact with parents, students, and staff members who may be working from home.

10. QR code generator: Generate QR codes for URLs and UPC payments. A QR Form can contain a QR Code Image that you have created. What a QR code generator has to offer:

SEPA credit transfers are initiated using EPC Quick Response Codes (QR Codes, or European Payments Council). any URL can generate a QR code. An EPC QR can be made by the user, saved, and then inserted into a form. You can change a QR code's information, fill colour, backdrop colour, label position, label font, image, and other components. If the QR Code label is too long, please choose Mode "1-Label-Strip" and Error Correction Level "High". You may follow your QR using the Responses tab of the Form. QR may be instantly scaled without losing its high-quality.

Conclusion: According to different authors' results Google form plays an important role in Online and in blended learning. We can use it for innovative surveys, assessment of students, feedback, contact information and many more. Number of add-ons available for additional functionalities. In this paper 100 add-on names which are available in Google marketplace are listed. Based on different web surveys, most popular add-ons are identified and explained.

References:

1. Adelia, A., Miftahurrahmah, M., Nurpathonah, N., Zaindanu, Y., & Ihsan, M. T. (2021). The Role of Google Form As An Assessment Tool in ELT: Critical Review of The Literature. *ETDC: Indonesian Journal of Research and Educational Review*, 1(1), pp.58-66.
2. Alharbi, Alhebshi & Meccawy (2021), EFL Students' and Teachers' Perceptions of Google Forms, *Arab World English Journal (AWEJ) Special Issue on CALL Number 7*. July 2021
3. Andrews, D., Nonnecke, B., Preece, J. (2003) Electronic survey methodology: A case study in reaching hard to involve Internet Users. *International Journal of Human-Computer Interaction*. 16(2), pp.185-210.
4. Andrew Kalnow, Christopher Lloyd, John Casey and Andrew Little, (2019). Google Forms— A Novel Solution to Blended Learning, *Journal of Education and Teaching in Emergency Medicine* 4(3), pp.13-20.
5. Nguyen, Ha; Stehr, Eryn Michelle; Eisenreich, Heidi; and An, Tuyin (2018) "Using Google Forms to Inform Teaching Practices," *Proceedings of the Interdisciplinary STEM Teaching and Learning Conference: Vol. 2, Article 10*. DOI: 10.20429/stem.2018.020110
6. NurliRohmah (2018), Implementation of Google Forms in ECE to Face Digital Era, *Advances in Social Science, Education and Humanities Research*, 249, pp 177-180.
7. R. Sivakumar (2019), Assistant Professor, Department of Education, Annamalai University, Annamalai Nagar, Tamilnadu, India. *Journal of Contemporary Educational Research and Innovations* Vol.9, No.1, pp.35-39., February, 2019
8. Rinaldi, R., Wiyaka, Prastikawati, E.F. (2022). Google Form as an online assessment tool to improve the students' vocabulary Mastery. *SALEE: Study of Applied Linguistics and English Education*, 3(1), pp 56-71. <https://doi.org/10.35961/salee.v3i1.307>
9. Sage Isabella (2017), *Redesigning Google Form Responses*, Stanford University, pp 1-10

Website References:

- W1. <https://workspace.google.com/u/1/marketplace/appfinder/category/works-with-form?host=forms>
- W2. <https://www.jotform.com/blog/google-forms-add-ons/>
- W3. <https://teachers.tech/best-google-forms-add-ons/>
- W4. <https://medium.com/data-scope/best-20-google-forms-addons-327391834efd>
- W5. <https://thegeekpage.com/best-google-forms-add-ons/>

W6. <https://www.infiflex.com/maximize-the-benefits-of-google-forms-with-powerful-add-ons>

W7. <https://workspace.google.com/u/1/marketplace/appfinder/category/works-with-form?host=forms>