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## Equipment for Internet-Based Research and Internet Search Strategy



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**ABSTRACT:** Qualitative researchers and social scientists using the internet more frequently as a platform for academic research and observation. By using the internet as a virtual library, the scholar can acquire information on ostensibly vast topic. Nevertheless, accessing the massive array of data available competently is very challenging. Different types of internet tools are available to work for research activities and paper writing. This paper delves into the study of several basic equipment for online-based research which may be helpful for the researchers to successfully conduct the research and writing activities.

**KEYWORDS:** Tools, advantages, internet, strategy

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### BACKGROUND

By using the World Wide Web's (WWW) Uniform Resource Locator (URL) to access databases made available electronically by information providers, the Internet is frequently utilized for research. In addition to the e-commerce transaction, conversations and debates are frequently held, and emails can be sent and received. (Afolabi, 2001). Research and investigation, recreation, and commerce thus are some of its primary purposes. (Wajasurriya, 1998). The pace of finding information has significantly risen thanks to online resources like search engines (Adomi et al., 2004). Ivwighreghweta (2013) stated that using the Internet to research academic topics enhances students' intellectual growth and career readiness. In the modern era, it has been noted that the internet has developed into a valuable resource for studying, teaching, and research in the field of education. Every important academic enterprise around the world is built on its function in information processing, organizing, storing, extracting, and dissemination. (Ifidon, 2007). It is disappointing that despite its many benefits, most investigators lack the knowledge necessary to conduct effective searches or locate reliable sources of data. For some academics, even synthesis and analysis of the data might be a nightmare. Exploring the potential of the Internet is unattainable due to researchers' inability to solve these issues. (Ejizu, 2010).

In Internet-mediated analysis, new, original data are gathered and then exposed to analysis in order to provide fresh evidence for a given research issue (Hewson et al., 2003). In many internet-based research contexts, online tools and continuous advancements in pertinent Internet technologies have made many of the earlier programming instructions obsolete (Görizt and Birnbaum, 2005; Creswell, 2014). According to Sedwick (2004), the use of email and the Google search engine has increased the appeal of the internet as a tool for research. Most individuals who use email or "surf the Web" have been approached to participate in some kind of online survey (Ahern, 2005). Many of the first internet surveys were from businesses who conducted marketing research. However, as Siah (2005) noted, "a substantial number of researchers have been drawn to the medium for information gathering due to the pace, simplicity, and affordability of running an internet-based study."

### Internet Search Strategy

Internet may be a cutting-edge technical tool that makes it easier and more efficient to distribute knowledge across a broader group of individuals. Universities now spend a lot of money on internet connectivity because it reduces the time it required to produce new knowledge and put it to use, enhances collaboration and idea-sharing with researchers in other institutions, regions, or nations, encourages the sharing of instructions and data, and fosters scientific research. Internet supports to satisfy people's hunger for information and further research. Many academicians use web services quite naturally (Burke 2002), however, some of them lack sufficient search skills and the fundamental skills for a critical assessment of internet information. In order to prepare their manuscripts, student researchers primarily seek for methods for using the internet as a useful learning resource. (Hoffman

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et al. 2003). According to Nachmias and Gilad (2002), in order to find information using online tools, a person needs to have the following knowledge, skills, and abilities: the ability to use search engines, the ability to use searching techniques, the ability to browse through information, the intellectual capacity to systematize searches, the ability to operate a search, and the capacity to think logically. It is apparent that professionals must assist pupils in enhancing these essential abilities for using Internet technologies. (Shenton& Dixon 2003; Corio 2003; Hoffman et al. 2003). Utilizing internet-connected devices necessitates an understanding of various tactics, which in turn calls for a set of specialized internet-related abilities. We may conduct a finely focused search using the many options offered by search engines. Boolean search commands (and, or, near, none, not), (+, -, ", etc.), power searching commands (in titles: sites: URL, link: \*,?, etc.), and search aid features are a few of the commonly used search tactics mentioned in Akkoyunlu (2002a) and Brehm (1999).

### TOOLS AND TECHNIQUES

#### *Internet-based survey equipment*

Researchers now have a variety of alternatives when choosing a tool to best suit the data collecting goals for a certain study thanks to the simple availability of web survey equipment. (Sax et al., 2003; Wright, 2005). To cut down the choices from several apps to a few tools, it may be helpful to have a thorough understanding of the different kinds of internet-based data gathering programs that are accessible. (Granello & Wheaton, 2004). There are several reasons why internet-based methods are preferred, but the key ones have to do with improved control, validity, and dependability.

**Table 1.1 Internet-based survey equipment**

Internet-based survey equipment	Hosting location	Researcher's cost
Web Hosted Survey Wizard	External	Medium
Web Survey Wizard	Internal	Low
Custom Design	Internal	Low

**Source:** Heerwegh *et al.* (2005)

#### *Internet-based data collection equipment*

Data collection software is a digital instrument for the gathering and electronic archiving of qualitative and quantitative data. Working with online data collecting technologies has the advantages of eliminating paper surveys and enabling speedy export of data for data analysis and reporting. Most frequently, the internet has been utilized to conduct the study, although e-mail has also been utilized. The use of such a technology opens up new possibilities for reaching respondents, enabling the creation of bigger and more varied samples. Additionally, a variety of online-based catalogs are accessible to aid scholars in finding printed books, periodicals, official papers, and other items.

**Table 1.2 Internet-based data collection equipment**

Internet-based data collection equipment
<a href="http://www.activewebssoftwares.com">http://www.activewebssoftwares.com</a>
<a href="http://www.advancedsurvey.com">http://www.advancedsurvey.com</a>
<a href="http://www.askget.com">http://www.askget.com</a>
<a href="http://www.classapps.com/SelectSurveyOverview.asp">http://www.classapps.com/SelectSurveyOverview.asp</a>
<a href="http://www.freesurveysonline.com">http://www.freesurveysonline.com</a>
<a href="http://www.hostedsurvey.com">http://www.hostedsurvey.com</a>
<a href="http://www.infopoll.com">http://www.infopoll.com</a>
<a href="http://www.prezzatech.com">http://www.prezzatech.com</a>
<a href="http://www.questionpro.com/web-based-surveysoftware.html">http://www.questionpro.com/web-based-surveysoftware.html</a>
<a href="http://www.raosoft.com">http://www.raosoft.com</a>
<a href="http://www.supersurvey.com/?sezbc.com_software">http://www.supersurvey.com/?sezbc.com_software</a>
<a href="http://www.vovici.com">http://www.vovici.com</a>
<a href="http://www.websurveyor.com">http://www.websurveyor.com</a>
<a href="http://www.zoomerang.com">http://www.zoomerang.com</a>

**Source:** Van Selm & Jankowski (2006), Betz Hobbs & Farr (2004), Tourangeau et al. (2004)



Figure 1.1 Online research tools

Academicians may access all of their projects and manage them using Todoist from whatever platform they possess. EndNote is a versatile research tool that provides access to complete texts based on abstracts and information from internet sources. In addition to that, it manages all of their references. One might employ EduGeeksclub's assistance by ordering a paper from them to serve as a source for their essay, paper, or thesis. Zotero integrates with their browser and makes advantage of its ability to recognize material for them automatically. After that, it allows users to store it to their own library—another Zotero feature—with just one click. RefWorks is an online platform that may help researchers locate exact research data, organize it, save it, and share it with their peers and academics with ease. Similar to Zotero, Paperpile is a reference management program that works as a Chrome browser extension, making it accessible to Windows, Mac OS, and Linux users. By transforming the world's collective knowledge that is included in scientific publications into content, ContentMine gathers scientific facts near to the researchers. The Plagiarism Checker will scan your document and look for any duplicate content.

### Implication in research

Since the beginning of the twenty-first century, people have used the internet to look for material for term papers, projects, and other types of homework. We are used to successfully and frequently favorably employing online services for scholarly research, but we are not very acquainted with reliable and effective Internet search methods. On light of the fact that searching in a web browser requires more than just a basic activity; it also necessitates vital skills, therefore comprehending information seeking methods is a pertinent study topic. The Internet satisfies authors' thirst for information and further study. Internet education is therefore necessary since it has grown to be an invaluable resource for learning, teaching, and research in the field of education. With this in mind, it becomes imperative for the Nepalese government to overcome the different blockages encountered while using Internet tools since doing so will significantly improve the services provided by the Internet. The researcher's grasp of the abilities needed for online information seeking as well as the procedures involved in properly preparing students for writing scientific papers is improved by this study.

### CONCLUSION

The study's conclusions showed that academics utilize the Internet to look out resources for term papers, projects, and other types of assignments. Due to its essential role in information collection and researcher requirements communication, the internet has grown in significance inside academic institutions. Access to a wide variety of material, including journal articles, papers, websites, Google Scholar, Zotero, Mendeley, etc., is now attainable from anywhere in the globe thanks to internet tools and technology. Additionally, it makes it possible for academics and researchers to share their findings with a larger global audience. In terms of concerns of improved control, validity, and dependability, internet-based research methods should be favored. However, many researchers lack the requisite search abilities and abilities to critically evaluate online sources of information. The complexity of looking for content on the Internet must thus be better understood by more study in this field. According to the

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study, efforts should be made to provide a reliable power supply. Adequate user education and training on the use of Internet tools by the university administration would also improve Internet use.

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### Conflict of Interest

The author declares no conflicts of interest regarding publication of this manuscript.

### REFERENCES

- 1) Adomi, E.E., Okiy, R.B., & Ruteyan, J.O. (2003). A survey of cybercafés in Delta State, Nigeria. *Electron. Libr.*, 21, 487-495.
- 2) Adomi, E.E., Omodeko, F.S., & Otolo, P.U. (2004). The use of cybercafe at Delta State University, Abraka, Nigeria. *Library Hi Tech*, 22(4), 383-388.
- 3) Ahern, N. R. (2005). Using the Internet to conduct research. *Nurse researcher*, 13(2), 55-70.
- 4) Anyakoha, M. W. (2005). Information and communication technology (ICT) in library and information services. *Coal city libraries*, 2(1), 3-10.
- 5) Brehm, B. (1999). Effective internet searching. *Suffering social studies: the Internet book*. (Ed.: J.A. Braun & C.F. Risinger). *National Council for Social Studies*, Washington. 9-17
- 6) Burke, J. (2002). The Internet Reader. *Educational Leadership*, 60(3), 38-42.
- 7) Coiro, J. (2003). Reading comprehension on the Internet: expanding our understanding of reading comprehension to encompass new literacies. *The Reading Teacher*, 56(6). Retrieved February 22nd, 2022 from [http://www.readingonline.org/electronic/elec\\_index.asp?HREF=/electronic/RT/2-03\\_column/index.html](http://www.readingonline.org/electronic/elec_index.asp?HREF=/electronic/RT/2-03_column/index.html)
- 8) Creswell, J.W. (2014) *Research Design: Qualitative, Quantitative and Mixed Methods Approaches* (4th edn). Thousand Oaks, CA: Sage.
- 9) Ejizu, C. C. (2010). The Internet Research Strategies by the Postgraduate Students of University of Nigeria, Nsukka. Unpublished B. Sc. Project, Department of Library and Information Science, University of Nigeria, Nsukka.
- 10) Göritz, A. S., & Birnbaum, M. H. (2005). Generic HTML Form Processor: A versatile PHP script to save Web-collected data into a MySQL database. *Behavior research methods*, 37(4), 703-710.
- 11) Granello, D. H., & Wheaton, J. E. (2004). Using web-based surveys to conduct counseling research. In J. W. Bloom & G. R. Walz (Eds.), *Cybercounseling and Cyberlearning: An Encore* (pp. 287-306). Greensboro, NC: CAPS Press.
- 12) Heerwegh, D., Vanhove, T., Matthijs, K., & Loosveldt, G. (2005). The effect of personalization on response rates and data quality in web surveys. *International Journal of Social Research Methodology*, 8(2), 85-99.
- 13) Hewson, Claire; Yule, Peter; Laurent, Dianna, and Vogel, Carl (2003). *Internet research methods: a practical guide for the social and behavioral sciences*. New technologies for social research. London, UK: Sage.
- 14) Hobbs, B. B., & Farr, L. A. (2004). Assessing internet survey data collection methods with ethnic nurse shift workers. *Chronobiology International*, 21(6), 1003-1013.
- 15) Hoffman, J. L., Wu, H. K., Krajcik, J. S., & Soloway, E. (2003). The nature of middle school learners' science content understandings with the use of online resources. *Journal of Research in Science Teaching: The Official Journal of the National Association for Research in Science Teaching*, 40(3), 323-346.
- 16) Ifidon, S. E., & Ifidon, E. I. (2007). *Basic principles of research methods*. Benin City: Goodnews Express Communication.
- 17) Iwighrehweta, O. (2013). The application of information and communication technology on academic library operations and services in Nigeria. *International Journal of Digital Library Services*, 3(1), 12-22.
- 18) Nachmias, R., & Gilad, A. (2002). Needle in a hyperstack: Searching for information on the World Wide Web. *Journal of Research on technology in Education*, 34(4), 475-486.
- 19) Sax, L. J., Gilmartin, S. K., & Bryant, A. N. (2003). Assessing response rates and nonresponse bias in web and paper surveys. *Research in higher education*, 44(4), 409-432.
- 20) Sedwick, J. L. (2004). A comparison of three data collection survey modes among Southern Baptist youth workers. *The Journal of Youth Ministry*, 3(1), 35-46.
- 21) Shenton, A. K., & Dixon, P. (2003). A comparison of youngsters' use of CD-ROM and the Internet as information resources. *Journal of the American Society for Information Science and Technology*, 54(11), 1029-1049.
- 22) Siah, C. Y. (2005). All that glitters is not gold: Examining the perils and obstacles in collecting data on the Internet. *International Negotiation*, 10, 115-130.

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- 23) Tourangeau, R., Couper, M. P., & Conrad, F. (2004). Spacing, position, and order: Interpretive heuristics for visual features of survey questions. *Public opinion quarterly*, 68(3), 368-393.
- 24) Van Selm, M., & Jankowski, N. W. (2006). Conducting online surveys. *Quality and quantity*, 40(3), 435-456.
- 25) Wijasuriya, D. E. K. (1998). Towards an information society: The Malaysian experience. *Information Development*, 14(2), 61-68.
- 26) Wright, K. B. (2005). Researching Internet-based populations: Advantages and disadvantages of online survey research, online questionnaire authoring software packages, and web survey services. *Journal of computer-mediated communication*, 10(3), JCMC1034



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