

Yashoda Shikshan Prasarak Mandal's



Yashoda Technical Campus, Satara



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Faculty of Engineering
Department of Computer Science and Engineering

Yashoda Shikshan Prasarak Mandal's **Yashoda Technical Campus, Satara**



Department of Computer Science Engineering

An activity Report on

INTEGRATED FRAMEWORK FOR ANALYSIS AND VISUALIZATION OF PRINTED AND ONLINE JOURNALS AND THEIR METRICS

On

Vision of department: To lead in technical, quality education, innovation, research for development of sustainable & inclusive technology for the society.

Mission of department:

1. To create ambience of academic excellence through state of art infrastructure.
2. To create student-centric pedagogy that will lead to employability.
3. To create a software engineering professional with knowledge of multidisciplinary fields, can provide innovative products & service to society.
4. To train and motivate the students for lifelong learning, employability, and entrepreneurship.

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Department of Computer Science and Engineering

10th October 2024

INTEGRATED FRAMEWORK FOR ANALYSIS AND VISUALIZATION OF PRINTED AND ONLINE JOURNALS AND THEIR METRICS

Date: 4th and 10th Oct 2024

Time: 10 am onwards

Venue: Central Library with discussion cabins

- | | |
|--|--------------------------------|
| <input type="checkbox"/> Total no of participants : 140 | Total no of teams : 30 |
| <input type="checkbox"/> Male Participants : 60 | Female Participants: 80 |

This activity report discusses the result of the work done in development of "Integrated Framework for Analysis and Visualization of Printed and Online Journals and their Metrics" on Java Platform. It is a part of the Miniproject going in Computer Science Department, Yashoda Technical Campus, Satara and aims at the development of an application framework for providing a common platform for facilitating the use of methodological approach and integration of various tools developed during the execution of the project. And to get published those outstanding research contributions in the reputed journals and conferences. This activity is our departmental initiative to provide students a platform to motivate and impose the knowledge on publish the quality research work in reputed journals and magazines platforms.

Objective

The final goal of the project was twofold.

1. An Integrated Framework was required for interaction with the various tools (like Software/Hardware Basic tools for research and development activities, basic research methodology and publication ethics),
2. Based on the final platform configuration and bindings, an Analysis and Visualization framework was Required for getting performance metrics of the research platforms and awareness on visualization of the Analysis different journal metrics among the students.

Along with above main goals, capability to design the target platform manually was also desired.

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Methodology

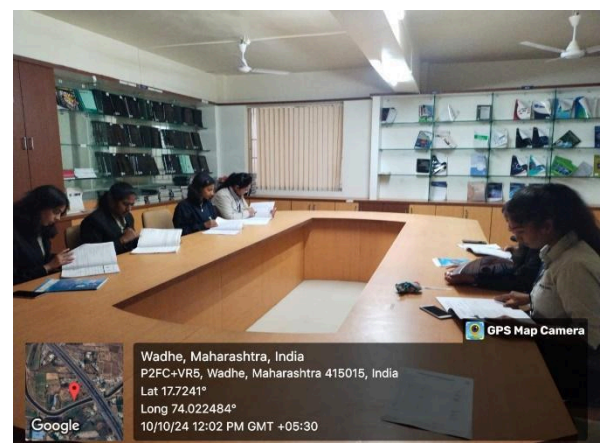
To implement the above goals, the following methodology needs to be followed:

1. Identify the research question or problem.
2. Conduct a literature review and Research Concept Development.
3. Formulate a hypothesis or research objectives.
4. Design a research plan and methodology.
5. Data Collection through Survey and Interviews.
6. Data Input, Cleaning and Organization.
7. Quantitative and Qualitative Analysis
8. Documenting Findings and Drawing Conclusions
9. Report Writing and Peer Review
10. Producing Final Document.

Students



are



referring different metrics of printed journals for finding the problem statement and research gaps

From the Past Research Papers in Multiple journals, The problem statement, its origin and the objectives in seeking a solution, Examination of data and records, concerning the problem for possible trends, peculiarities and

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other clues, Review of similar studies in the area or of the studies on similar problems; and Exploratory personal investigation which involves original field interviews on a limited scale with interested parties and individuals with a view to secure greater insight into the practical aspects of the problem were discussed with students.

The following criteria for good research work was taught and imposed on the students Criteria of Good Research:

1. The purpose of the research should be clearly defined.
2. The research procedure used should be described in sufficient detail to permit another researcher to repeat the research for further advancement, keeping the continuity of what has already been attained.
3. The procedural design of the research should be carefully planned to yield results that areas objective as possible.
4. The researcher should report with complete frankness, flaws in procedural design and estimate their effects upon the findings.
5. The analysis of data should be sufficiently adequate to reveal its significance and the methods of analysis used should be appropriate. The validity and reliability of the data should be checked carefully.
6. Conclusions should be confined to those justified by the data of the research and limited to those for which the data provide an adequate basis.
7. Greater confidence in research is warranted if the researcher is experienced, has a good reputation in research and is a person of integrity.

In other words, we can state the qualities of a good research as under:

1. **Good research is systematic:** It means that research is structured with specified steps to be taken in a specified sequence in accordance with the well-defined set of rules. Systematic characteristic of the research does

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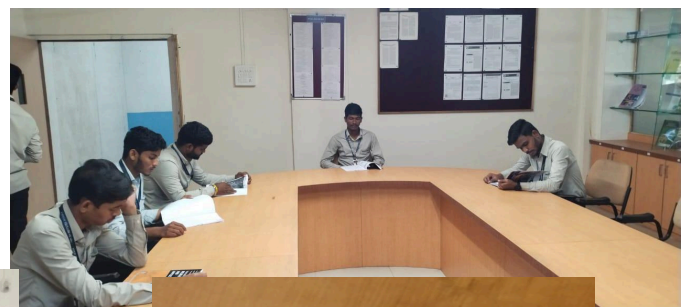
not

Rule out creative thinking but it certainly does reject the use of guessing and intuition in arriving at conclusions.

2. **Good research is logical:** This implies that research is guided by the rules of logical reasoning and the logical process of induction and deduction are of great value in carrying out research. Induction is the process of reasoning from a part to the whole whereas deduction is the process of reasoning from some premise to a conclusion which follows from that very premise. In fact, logical reasoning makes research more meaningful in the context of decision making.

3. **Good research is empirical:** It implies that research is related basically to one or more aspects of a real situation and deals with concrete data that provides a basis for external validity to research results.

4. **Good research is replicable:** This characteristic allows research results to be verified by replicating the study and thereby building a sound basis for decisions.



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Students are selecting the appropriate printed journals in concern with their area of interest.

Research metrics are the fundamental tools used across the publishing industry to measure performance, both at journal- and author-level. For a long time, the only tool for assessing journal performance was the Impact Factor – more on that in a moment. Now there are a range of different research metrics available. This “basket of metrics” is growing every day, from the traditional **Impact Factor to i-10, h-index, Volume, Issues, ISSN numbers, DOI**, and beyond. Different types of Library indexes like Scopus, Web of Science, Google Scholar, UGC Care List, etc., were discussed with students. Method of finding journals and checking them in different indexes also been taught to students. They were actively listened to instructions and took notes of it. **Bibliometrics and altmetrics** were also discussed.

The art of writing **literature review** was deeply enrooted into the minds of students. **ETL** method was thought and students took notes. A literature review is a compilation, classification, and evaluation of what other researchers have written on a particular topic. A literature review normally forms part of a research thesis but it can also stand

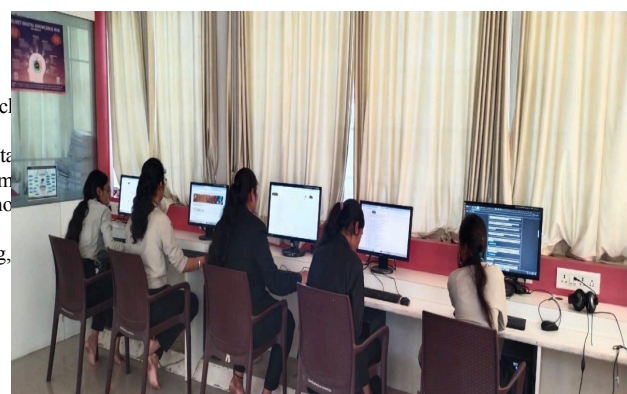
alone as a self-contained review of writings on a subject. In either case, its purpose is to:

1. Place each work in the context of its contribution to the subject under review;
2. Describe the relationship of each work to the others under consideration;
3. Identify new ways to interpret, and shed light on any gaps in, previous research;
4. Resolve conflicts amongst seemingly contradictory previous studies;
5. Identify areas of prior scholarship to prevent duplication of effort;
6. Point the way forward for further research;
7. Place an original piece of research in the context of existing literature.

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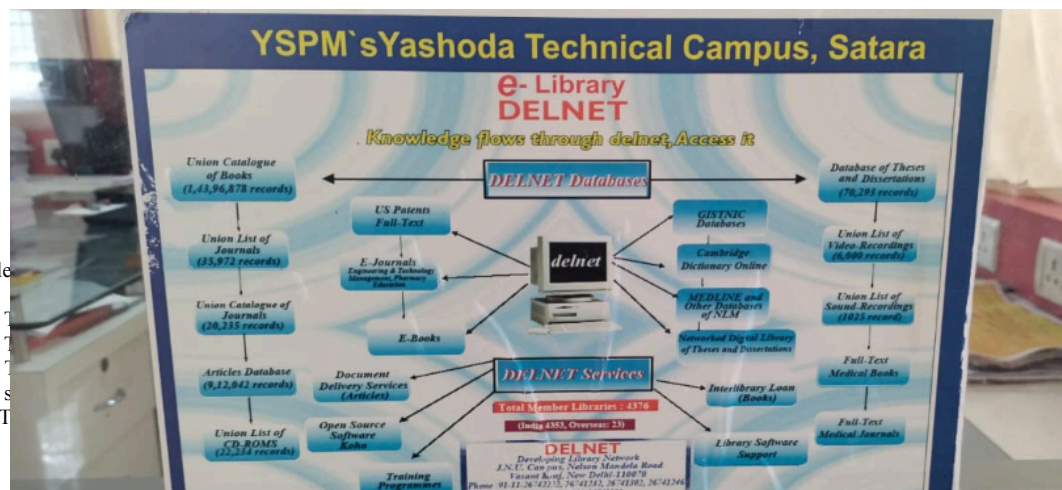
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Students are referring different metrics of Online Journals for finding the problem statement and research gaps

In our central Library, DELNET e-Library has been used. All faculties and students have access to refer different types of journals through DELNET 24x7. It aims to collect, store, and disseminate information besides offering computerized services to users, to coordinate efforts for suitable collection development and also to reduce unnecessary duplication wherever possible.

The Main Objectives of DELNET are:

1. To promote sharing of resources among the libraries by developing a network of libraries, by collecting, storing and disseminating information and by offering computerized services to the users;
2. To undertake scientific research in the area of Information Science and Technology, create new systems in the field, apply the results of research and publish them;
3. To offer technical guidance to the member-libraries on collecting, storing, sharing and disseminating information;
4. To coordinate efforts for suitable collection development and reduce unnecessary duplication wherever possible;



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DELNET – E-Library Profile

Link for DELNET: [DELNET - Home](#)

Students were completely gained the knowledge on art of Literature Review, Analysis of Journal Metrics, Writing research paper and Project Report and Publishing Research papers in quality journals and conferences.

Acknowledgements:

We sincerely extend our heartfelt warmth gratitude to our beloved Chairman, Principal, and Head of Department / CSE, Librarian Staff for their valuable suggestions, consistent motivation and push to do the above mentioned activities beyond their comfortable zone.

Mini Project Coordinator

Head of Department/ CSE

YTC, Satara

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