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A Survey on E-Resource System

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ABSTRACT: E-Resource system defines the most helpful means to gain access over the documents, articles, books which are provided by the means of internet in the easiest manner. In day to day life every individual seeks for the precise search related to their subject relevant resources, And many of the E-resource systems like Tutorials Point, N-LIST, w3school, Jayakar etc. cater the needs of the individual in need. These E-resource providers make available a wide range of complete subject books to the users. But considering the customized need by the student for their respective syllabus, the result of the E-Resource is limited. Moreover these e-resource systems does not provide any user to share the part files from whole subject which can help other individual, seeking for more topic centred search and results equivalently. Here this paper proposes a survey of E-Resource providers and their limitations. Furthermore defines a customized system which could overcome the limitations of traditional E-resource systems

KEYWORDS: E-resources, Recommendations, Link Prediction, Custom Portal.

I. INTRODUCTION

Electronic resource systems have become the most useful and significant stuff since they have been came into existence. In Day to day life, E-resources are used by different users from diverse streams. These E-libraries helped to easily serve and manage all information in the form of electronic resources, especially internet-based resources such as electronic journals, databases, and electronic books. The development of Electronic resource system became necessary in the early 2000s as it became clear that traditional library catalogs and integrated library systems were not deliberate to handle large metadata for resources and as mutable as many online products are. These E-Resource systems proved to be a significant cure for the traditional problems of library. The E-Resources with their features helped the growth in popularity and innovations equivalently.

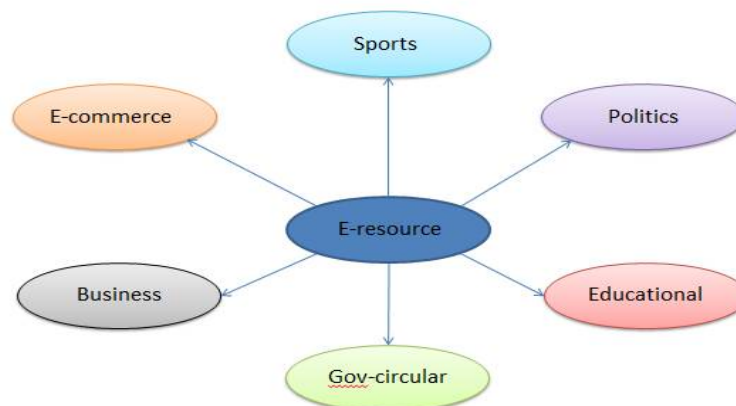


Fig.1.Types of E-resources

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In the means of Educational resources provide services are:-

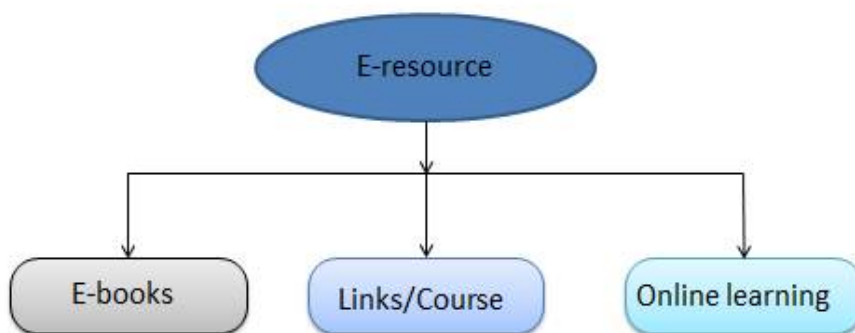


Fig.2 Type of educational resources services

A. *Features of E-Resource system include:*

- Acquires, manages and serves e-resources.
- Provides licensed and unlicensed e-Documents.
- It can be either a standalone system or may be integrated by other library system modules
- Have a public interface, either separate or integrated
- Allowing the user to surf subject, topic, discipline wise content.

B. *Existing E-Resources system are:*

1. W3School
2. TutorialsPoint
3. Jayakar Library
4. PupilGarage

C. *What they serve:*

1. W3Schools:-

W3Schools is a web information and developer website, with tutorials and references relating to web development topics such as HTML, CSS, JavaScript, PHP, SQL, and JQuery. The site provides a reference manual covering many aspects of web programming.

2. Tutorials Point:-

Tutorials Point is a website which provides Online Free Technical Tutorials relating to all major computer languages like Parrot, C, C++, PERL, MySQL, Pro*C, PL/SQL, VBScript and other popular concepts like Object Oriented Programming, E-Commerce, Billing Systems, Compression Techniques.

3. Jayakar:-

Jayakar library is a part of Universal Digital Library program since 2002 and is affiliated with SPPU. This gives access to number of journals from different backgrounds and disciplines



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4. PupilGarage:-

Provides Free Books for Computer Science, Electronics, Communications, Electrical, Mechanical, Chemical, Civil, English, Literature, Mathematics, Engineering, Instrumentation and also provides Computer, Engineering, Technical, Medical and Management books available online for free download.

II. RELATED WORK

E-learning environments are mainly based on a range of delivery and interactive services. It is single access point to all relevant information, resources and applications in the education process.

Different students use different way to go to their desired page in searching and finding the content they need. Some students need to spend time by going page by page in finding the appropriate page. This behavior in using E-learning portal will lead to inefficiency and not practical system when doing teaching and learning process[3].

Thus Currently there is need in the development of adaptive e-learning system by integration of adaptation services and existing e-learning management system[2]. E-learning resource adaptation is reflected in: adaptation of presentation materials, methods of searching results and collaboration, according to requirements and characteristics of students[2]. There a personalized learning recommender systems can, as a kind of services in E-learning environment, provide learning recommendations to students[1]. Which will help students find, learning materials they would need to read. The implementation of this proposed personalized learning recommender system can support students online learning moreefficiently

III. PROPOSED WORK

Sr. No.	E-Resources	Served Services	Limitations
1	W3school	<ul style="list-style-type: none">Provides online accessOpen for all	<ul style="list-style-type: none">Custom searchUploadDownloadRecommendation
2	Tutorial point	<ul style="list-style-type: none">Open accessProvides download optionLogin provide	<ul style="list-style-type: none">Custom searchRecommendation
3	Jayakar Library	<ul style="list-style-type: none">Subject wise resourcesLibrary subscribed databasesLogin provideProvides Downloading	<ul style="list-style-type: none">UploadRecommendation
4	Pupil garage	<ul style="list-style-type: none">Different discipline oriented resultsOpen accessProvides downloading	<ul style="list-style-type: none">Custom searchUploadRecommendation
5	Custom E-Resource portal	<ul style="list-style-type: none">Custom searchUploadDownloadLogin provideDisciplinerecommendation	



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A. The Existing Systems

1. *W3schools*: W3schools tends to be a very user centered site with respect to catering the web development needs of the learner. The common yet exceptional functionality provided by w3schools is the online editor. This online editor lets you debug and execute the code online. This system gives open access to all the learner, where user can surf over number of web technologies and their given examples.
2. *Tutorialspoint*: Tutorialspoint have been the another, most visited site among technology people where they can view tutorials regarding numerous technologies. Apart from viewing and reading the tutorials online, tutorialspoint provide the e-book download facility giving all the content as pdf. This system provides user accounts to subscribe their newsletters whereas the downloadable content is open for all.
3. *Jayakar Library*: Jayakar Library is affiliated to Pune university and provide numerous learning material regards to different stream which are been taught in it. It includes Online union catalogues of books, theses and serial publication as a part of E-resource provision. Web-links are provided to various National Libraries, open access resources of variety of subjects and databases as a part e-learning process. The said portal is accessible through Internet and it is very useful to students, staff, researchers and general public and libraries of the affiliated colleges of the university.
4. *PupilsGarage*: The site provides different e-resource material with respect to different disciplines under one roof. There are different books and contents available on internet which give the subject relevant contents may it be a book, theses, article and customized document. This site provides e-resources related to engineering, management, mathematics and etc.

B. Limitations

- *Customized file upload*: The Systems doesn't support to upload the file from the user which are customized with respect to their need and later can be made available to the other users. Thus any other user seeking for the specific topic can have access to the uploaded partial file. The documents provided by the E-Resources system are complete topic covering material, thus any individual seeking for a single topic has to download the whole copy.
- *Recommendations*: The Systems doesn't provide recommendations to the user based on their recent views or the details they possess.
- *Downloadable content*: Some of the systems doesn't provide the contents to be downloaded and instead the online editor.
- *Syllabus Relevant Search*: These Portals provide the subject associated materials which cover the regular topics regardless of background discipline of the user.

C. Need Of Custom E-Resource

- Different students use different way to go to their desired page in searching and finding the content they needed. Some students need to spend time by going page by page in finding the appropriate page. This behavior in using E-learning portal will lead to inefficiency and not practical system when doing teaching and learning process. Thus, there needs a Custom search to allow student to reach their need specific results quickly.
- With respect to the student learning in a university, an E-resources Portal doesn't provide discipline and subject related resources under one roof. There is need of custom e-resource portal that can make available the personalized resources for the student which is in need of the same. This will allow the student from the same university to have access over their syllabus oriented content, and also will save the space and time by not downloading the whole book.
- Many a times the students have to search topic, subject, author and publication year wise every time they log in to use E-learning system, this makes them to pass through different pages taking time. This becomes a frantic task as going to single page is always convenient than to travel from page to page. To overcome this, the prediction can be provided by considering his/her background information. This will surely minimize time in comparison the hopping off page to page.
- For accomplishing the custom uploads the custom E-resource System may help to keep the distinguished access right records with respect to the type of user i.e. a student or a Teacher.



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IV. CONCLUSION AND FUTURE WORK

The existing 'E-resource portals' serve better & easy way to explore among the e-material/ resources. In the above study, we compared different E-Resources with respect to their functionalities such as downloadable content, online editor, discipline based search & results etc. Survey also laid light on services provided and their limitation. Watching their limitations we assumed a customized E-resource portal. The customized E-resource portal which will help user to save time and space with regards to page search & results. With the help of recommendation and custom material uploads the user can get more accurate results as possible. And thus we came to conclusion that the customized E-resource portal overcome the drawbacks of the current systems and can help the same to increase user experience by extending functionalities.

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3. Jayakar library: <http://lib.unipune.ac.in/>
4. Pupilgarage: <http://www.pupilgarage.com/>