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Student Project Repository Using OPAC

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Abstract
Web OPAC (online Public Access Catalogue) is widely being used to access E-learning. In this project, our aim is to provide a platform for users to gain references of projects which is already being exist in the library. A desired outcome is providing a complete insinuation of the extant project, by the organization through the OPAC. The users can also upload enunciate of their project and also examine the existed projects. Therefore, the intend of this paper is to provide an extensive information resources of projects which is needed in the progress of designing the target project.

Keywords: *Web OPAC, Repository.*

1. Introduction
A Project is an individual or collaborative activity which is carefully planned in order to achieve a particular goal, especially in education. In other words, a set of pertinent tasks to be executed over a period of time and possibly involving research or design for target project and it is gone through many different phases in which each phase is completely explained by objective and outcome. An OPAC is an online bibliography which is adhered by a group of libraries. It helps user to cite the earlier projects for their reference. Being a good designer the idealized framework of the modules that they see into is not effective they need to process what they have known. This project presents planning, designing and implementation of desired problem which provide learners a good advancement in experiencing a realistic application of the studies which have been pursued by many years and it helps to capture better performance. The projects are very unlikely to be possible, because there are too many practical complications. The projects produced by students are sometimes incomplete and deployed rarely. This stream is accomplished to get rid of the following insecurities overcome by students while deploying their projects:

- Impoverished specifications authority, modelling and verification.
- Inadequate of projects for suspicious timetable.
- Absence of teamwork.
- Impoverished corroboration and communication.

So, we are providing a modern OPACs to get over the projects without the intervention of the secretariat.

Students are subjected to empower their educational expertise in the fields of concerned interest, working with productive ideas, problems, institutions, and mankind by adopting this application. Recent OPACs have different access points that concern the similar catalogues. A keyword search box is probably the most common one to practice and acts as a default search interface. people can able to go through the website directly by signing once and it is a secured way to publish their own projects and best way to help others and our system is interactive and user friendly.

2. Literature Survey
[1]. Nevzat Ozel , Tolga Cakmak"Users' expectations on reconstructing OPACs through network application" determines that users areallow access to information resources in a frequent interval of time, make a judgment on the method of defining the necessary information resources and allow effective use of OPACs, this case endow us to conquer thebasic significance of preferring web appears that reaches each and every users' expectations by granting access to obtain required information.

[2].Wang Yue ,Yang Zhimin"The study on priority-based location display in OPAC system" examine to provide users with a more precise book position by means of dynamic 3D graphics, highlighting the bookshelf and defines the quality of the target book can only be reviewed by user who has priority. By this report instead of priority-based location displaying we have used a database retrieval system where multiple users can retrieve the information at the same time.

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[3]. Danny C.C.Poo ; Min-yen Kan "Detecting and supporting known item queries in online public access catalogue" convey information that when an end user wants to discover any resource in a digital library, they generally find the resources in the form of queries through library catalogue. So, we thought of making end users to find the material for their required project, which may give the specific knowledge for their projects. End users can give required string for which they are searching. They can get the required material for their reference.

[4].Padmashree Desai , G.H. Joshi , M Vijayalaskhmi "A Novel approach to carrying out mini project in computer science and engineering" determines that student projects which were completed in engineering experience from difficulties such as poor management, poor design and no testing. To overcome above complications, we thought there should be a success in everyone's project. Students can go through the preceding projects and get a proper reference of it which assist their venture.

[5].Vijaykumar Bhajantri C.Sujatha, YShilpa, Manjula Pawar "Experiential Learning: Learning through Projects said that hypothetical foundation of the educational program that they experience isn't adequate they have to rehearse what they have comprehended. In order to train as an engineer, students must be exposed to a range of projects that include complex problems, along with the complexity of issues that affect these problems. In our project we enhanced the author's point. To create a front end to get the details about the various projects from the database so that it is easy to get a reference for their project.

[6].Andriy Andrukhiv , Dmytro Tarasov "The system of information of educational process in university" determines providing information support with usage of modern information technology and the integration with information-analytical system will establish ease of access to necessary information with reliability and quality of received information this approach strength us to develop the same in our application.

[7].Kristin wobbe: Arthur Heincher "Mini workshop-Great problems lead to great projects: A first year seminar course" describes first year students with contemporary circumstances, social issues and obligations of human while building skills to promote future research on the project. we would like to come up with a web OPAC so that student can increase his knowledge.

3. Implementation

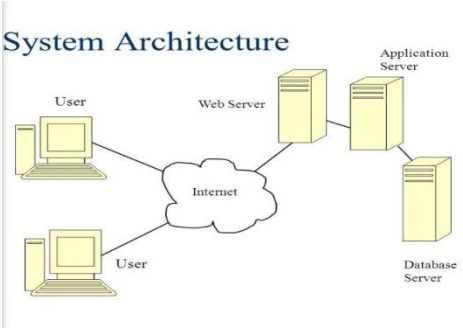
A. Software System Specifications:

System specifications are the necessary features that the computer will provide in order to utilize persuaded hardware or software. Compatible program specifications, facilitates documenting the system's expected behaviour. This conduct can be revealed as a method, device or mission, or which program is expected to execute. A functional specification determines a program or part of that program. It describes the functions which a program is needed to perform. Simply Functional specifications detail what system should be doing, our website has a fundamental characteristic of an education system and it has an effectiveness to maintain project reports. External interface is there so that user is able to use the system. It has a facility to provide authorization to the users. Non-compatible specifications determine the consistency of a software system attribute. It describes a collection of parameters used to determine the particular functionality of a device. A non-functional specification is necessary to guarantee the reliability and performance of the operating framework as a whole. Simply, it describes how system works.an online site includes a partof interactive elements and static attributes related to it, it contains written words, images, multimedia applications and graphics etc.To design a website an essential language which are used are HTML and CSS. The latest version of HTML is HTML5, the DOCTYPEs from older versions of HTML were lengthy because HTML language was SGML dependent and so a connection to a DTD was needed, With HTML5 this is not true anymore and the DOCTYPE is just wanted to empower principles mode for records composed utilizing the HTML language structure. The latest version of CSS is CSS3, this version has presentation-style properties were added in CSS3 that allows you to frame a presentation from documents.

B. System Architecture:

Network Framework Infrastructure defines the relationships between software, middleware frameworks and repositories to ensure that many programs may operate together. Once a person types in a URL and clicks "Go," the client determines the Internet-facing device on which the webpage resides and asks for that specific location.

The server at that point reacts by transmitting records over to the program. After that activity, the program executes those documents to show the mentioned page to the client. Presently, the client gets associate with the site. Obviously, these activities are executed inside a tally of seconds. Something else, Users won't waste time with sites.



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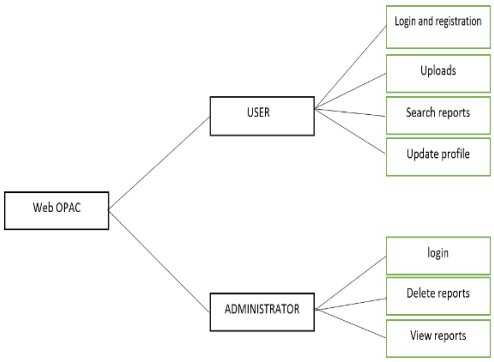
C. System design:

System structure diagram:

Web OPAC is divided into two main categories: [8]OPAC user can uploads, search reports and administrator can view reports, delete reports. As in below figure.

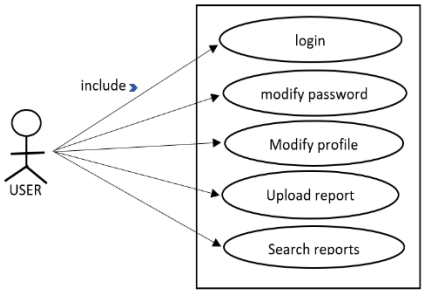


Development of Databases:

This OPAC's context database uses information administration tools including SQL server, MySQL, Oracle, and so on. It is just appropriate to build a database table in the context project of the application. Create user information user_table, report upload information upload_tableto database.

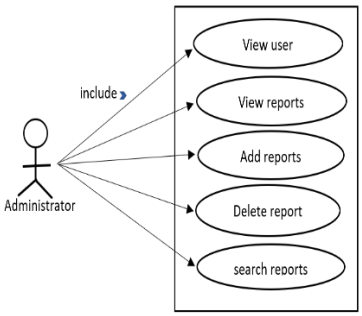
Reason for Program Usage:

1)user's system:
Users can handle their own details in the user module, and the user module uses the case diagram seen in the figure.



User's system use case diagram

2) Administrator module:
In the manager module, Admin can handle reports, see reports and erase reports. Manager module use case outline is appeared in figure.



Administrator module use case diagram

4. Testing

Web testing is a type of software testing to check possible bugs on websites or web applications. It is a complete web-based testing of software before they are rendered operational. Before it goes live for end users, a web-based system needs to go through it completely from end to end. An entity can ensure that the web-based framework is operating properly by conducting website testing which can be approved by users in real time.
1)Unit testing:
The online application may be a collection of small units working together; If you modify one unit, the results of which may be something else. Unit tests can automatically expose the matteratic parts of your code so you'll know where the problem is and what the right behaviour should be.

SL.NO	Input (username)	Input (password)	output	status
1	ABC	abc@123	Yes	Pass
2	XYZ	xyz@123	No	Fail
3	MNO	mno@123	No	fail
4	PQR	pqr@123	yes	pass

These are the test cases of login page in our web page.
2) Integration testing: Integration testing is a software testing where smaller units are combined and tested to verify that they are functioning according to their wish when they are integrated. The main aim of this testing is to test the interface between the modules of web application. So here are some test cases when report is uploaded into the database.

SL. N0	Upload report	Stored in database	status
1	Yes	Yes	Pass
2	Yes	No	Fail
3	Yes	Yes	Pass
4	Yes	No	Fail

5. Experimental Results

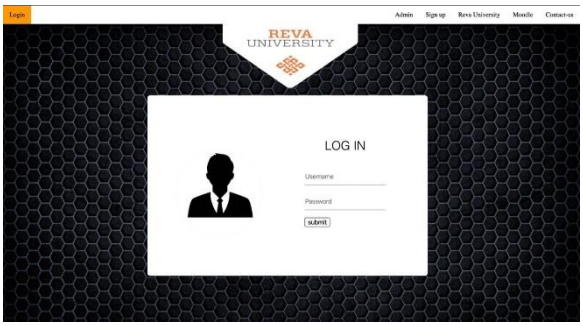


Figure A

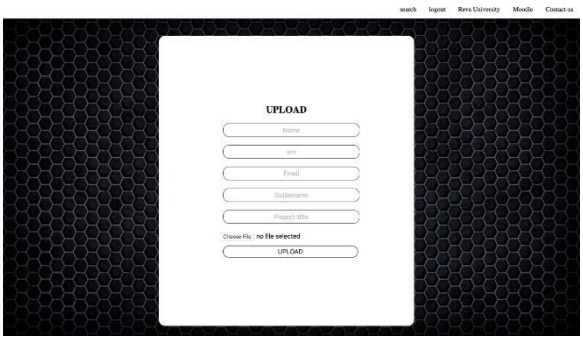


Figure B

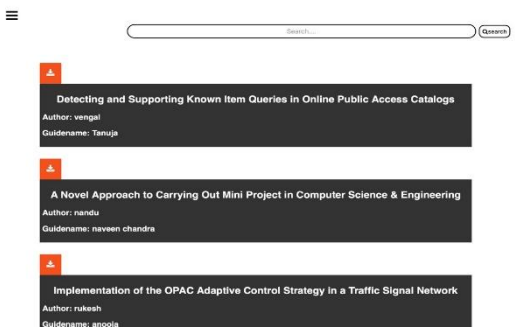


Figure C

These are the results of web OPAC, User should login to the application and they can upload the reports and search for reports [10]. By this research, students can easily get reference to their new ideas, innovations and projects.

6. Conclusion

The methodology adopted reflects a significant reversal in the student's interpretation and project implementation. Students can able to complete their projects on time. Through web OPAC entire projects can be accessible to all students. So, they can still save time and navigate.[9]The key reason for automation is the absorption and contraction of human effort. This can be further broadened to give demos of the projects and usage of cloud services rather than using database.

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