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An Improved Method for Database Independence Report Generator

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ABSTRACT
In this new era of Science and Technology, computers have become an integral part of our life. Works can be done effectively and efficiently with the help of computer. The proposed system is a project finder application system that will enable the users in increasing the efficiency in retrieving the projects and users can also discuss the code related or technology related updates on the website. The system will be user-friendly, ease to administrate. The objective behind this system is to minimize cd's and hardcopies and are replaced by a central data bank, which is equipped to store and provide information as an when required.

Keywords: project finder application, central databank etc.

INTRODUCTION

For every academic year college personnel should gather the information about the projects done by students and evaluate it manually and store the projects information in records which is not safe and secure. It is also tedious to maintain all the records and retrieving the projects is very difficult. They reside on different systems and gathering them is time consuming process. There is a chance of losing data. Besides that any student if he want to start a project he need to do lot of background work like exploring new ideas for developing a project and after getting an idea he need to check whether that idea is already developed by any one or not .If that idea is already implemented then he need to search for another one which is time consuming process because in existing system all this is manual system. Manual process will take much time to complete this process. So, our project aims to efficiently gather the academic projects information through a fully automated system that not only saves lot of time but also gives fast results. Student who wanted to start a project can search information about projects which already exist in the database so he can go with new project idea. Analysis is very easy in proposed system as it is fully automated. They can also share their ideas related to projects or technology on the website.

PROBLEM STATEMENT

From many years it has been a practice to access the academic projects information by the college personnel, students, and the general users (guests) which has been done by searching them. The result processing takes more time as they reside on different systems. Hence students have to do a lot of background work to check whether his idea is already implemented by someone in his college or not. If his idea is already implemented then he needs to search for new idea and work on it which consumes more time. By using the project finder application system user can retrieve contents of projects like abstract, source code etc., easily with in a short span of time.

PROPOSED SYSTEM

We have developed a web application where cd's and hardcopies are replaced by central databank which stores and provide information to users when required. This improves efficiency as it saves time and human resources.

Benefits and features:

Online based: It is a web-based project. users form different operating environments like Mac, Linux can view this web page.

Time Saver: As retrieving projects from different hard copies requires time, using this project finder application we can retrieve information within a short span of time.

Keyword Density Analyzer: This academic project finder application searches the projects based on the keyword we entered.

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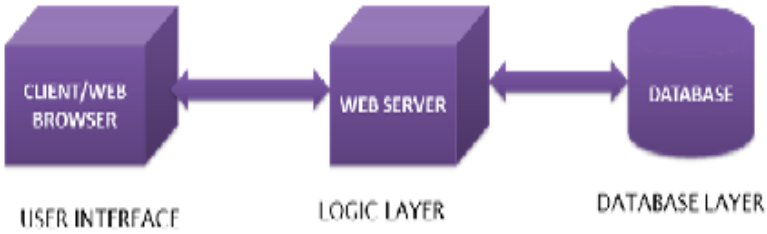
TECHNOLOGIES USED:

- Html
- JavaScript
- Java
- JSP Technology and Java Servlets
- JDBC
- Apache Tomcat Web Server

ARCHITECTURE

Architecture flow:

Below architecture diagram represents mainly flow of requests from users to database through web server. In this scenario overall system is designed in three tires separately using three layers called user interface or web browser, logic layer and data base layer. This project was developed using 3-tier architecture.



User Interface

This layer is also called as client or web browser, comprises of components that are dedicated to presenting the data to the user. For example: Windows/Web Forms and buttons, edit boxes, Text boxes, labels, grids, etc.

In Academic Projects and Discussion Conclave System user interface has Registration pages for the new users, Login page for all users, home page, etc.

Logic Layer

This layer encapsulates the Business rules or the business logic of the encapsulations. To have a separate layer for business logic is of a great advantage. This is because any changes in Business Rules can be easily handled in this layer. As long as the interface between the layers remains the same, any changes to the functionality/processing logic in this layer can be made without impacting the others.

In Academic Projects and Discussion Conclave System business logic layer has .java files which are created using Servlet and JSP technologies.

Database Layer

This layer comprises of the Database Components such as Database files, Tables, Views, etc. The Actual database could be created using MySQL, oracle, MS Access etc.

In Academic Projects and Discussion Conclave System Database layer uses ORACLE as its database and has tables.

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IMPLEMENTATION DETAILS

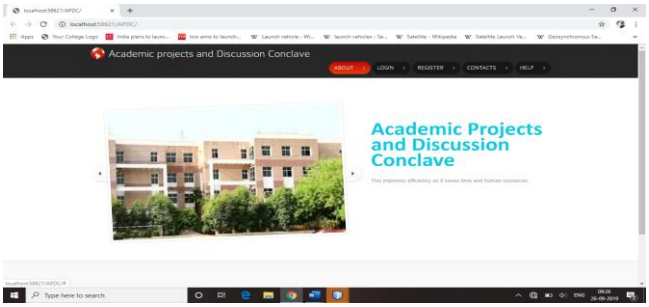

Fig. Homepage

It is the default page displayed when user visit the website.

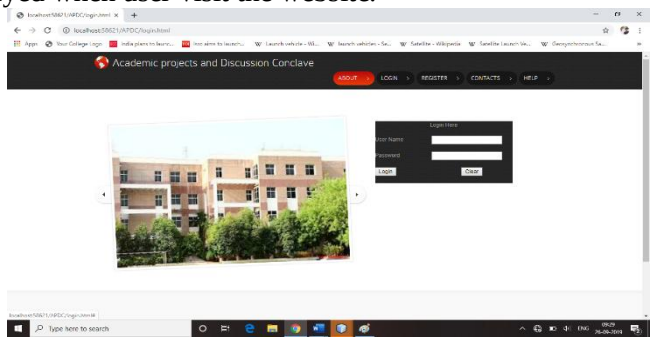

Fig. Login page

Usual login page for the user to authenticate. Admins and students can login with username and password in this page. Only authorized users will be logged into their account.

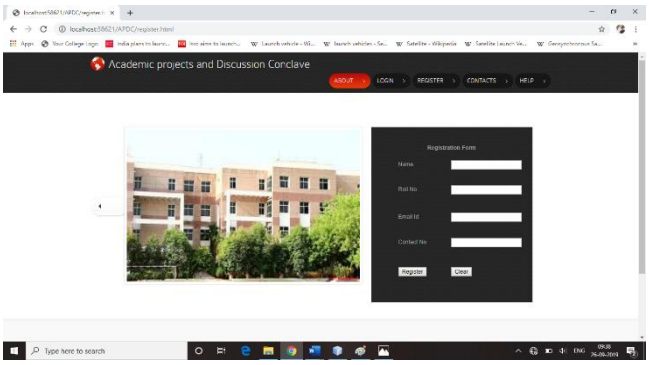

Fig. Registration page

Registration page consists of the data fields which are to filled by the new user in order to gain access to retrieve contents in the website.

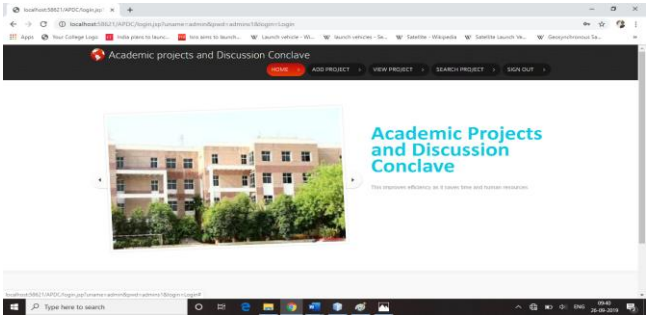

Fig. admin page

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On successful authorization, the admin is taken to the admin page where he can add projects, view projects and search project. He can also search projects by entering project name in the search bar and can also delete the uploaded projects.

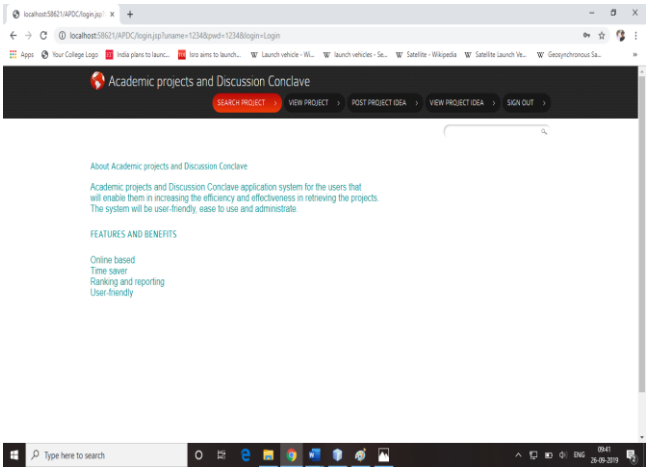

Fig. user page

On successful authorization, the user is taken to user page

where he can search projects, view the projects uploaded by the admin. He can also post the ideas or can also view the ideas posted by the other users. He can also get the entire list of projects uploaded by the admin. He can select his desired project from the list and can download the project related files easily. He can also use the search bar to search project from the entire list quickly.

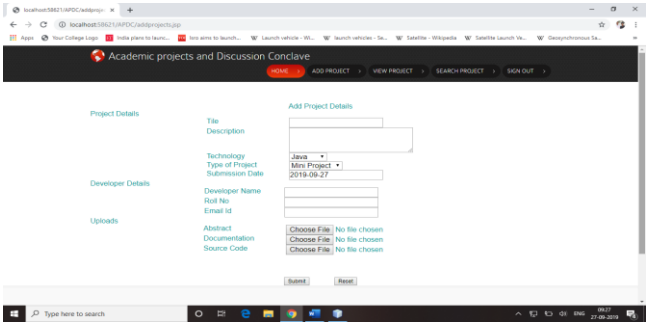

Fig. add project

Admin can upload a new project by filling the text field and uploading project related files. By clicking the submit button the files get uploaded in the database.

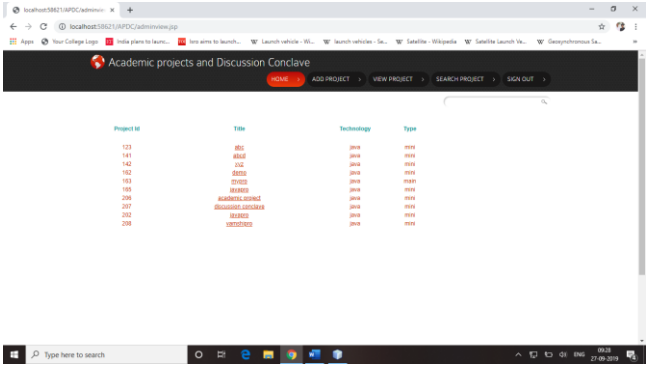

Fig. view project

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The users can view the projects uploaded by the admin. It lists all the projects uploaded by the admin and user select any of projects that he wishes to see.

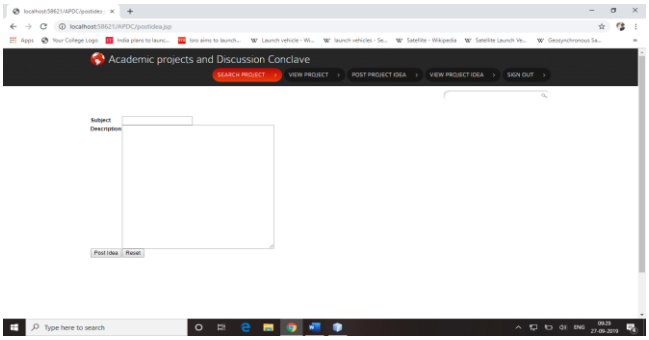

Fig. post idea

The user can post project ideas by filling the contents like subject and detail description of the idea and can submit it by clicking post idea.

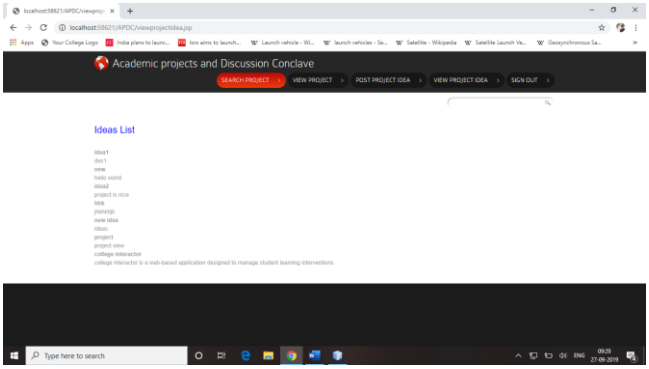

Fig. view idea

The users can view the project ideas posted by others. Project in this page.

REFERENCES

[1] JAVA Complete Reference seventh edition