Database Search Optimizer

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ABSTRACT: ***Database Search Optimizer which maintain the records of different modules like Student and Teacher. Through this website the modules can easily access the information. The main goal is to reduce paper work. Only the authorized user can access as well as modify the data. Using this system student can know the details on attendance and marks with respective staff from anywhere. Administrator can modify and update the details given by the Teachers and students. It also facilitates us to explore all the events organized in the college. There is a total wastage of stationary products and more human resources and manpower efforts is required. This system has easy interface and powerful data management. The student web portal enables huge storage of data and easy retrieval.***

KEYWORDS *: JAVA,STRUTS 2,JRE,SEARCH OPTIMIZER,JSP,HTML.*

INTRODUCTION:

The title of project is "Database Search Optimizer" which manages the records of students and faculty. This project uses a web application concept to facilitate the department system in educational institutes. This project introduces a manageable and systematic approach of maintaining student records. The design and implementation of a comprehensive Database Search Optimizer and user interface is to replace the current paper records.

This project usually contains attendance records, events details, staff details, student details, training placement officer information, Alumni Details. Only the legitimate users can access the system through which they can acquire information as per their needs. This Database Search Optimizer project is developed using JAVA programming language and the front end is developed using JSP,CSS,HTML.. The web server would be Tomcat 8 version. Server have Tomcat as web server is required to start working on this project environment like Java Runtime Environment (JRE) The data are stored securely in database.
The project is split into following modules every scenario will be developed independently. And data of Java with oracle10g is fascinating to execute this project.

OBJECTIVES:

- Easy online interface for teaching staff and students.
- Increasing the efficiency of department record system.
- Decrease as much as paper work regarding of faculty and students.
- To make the system more reliable.

DATA FLOW GRAPH:

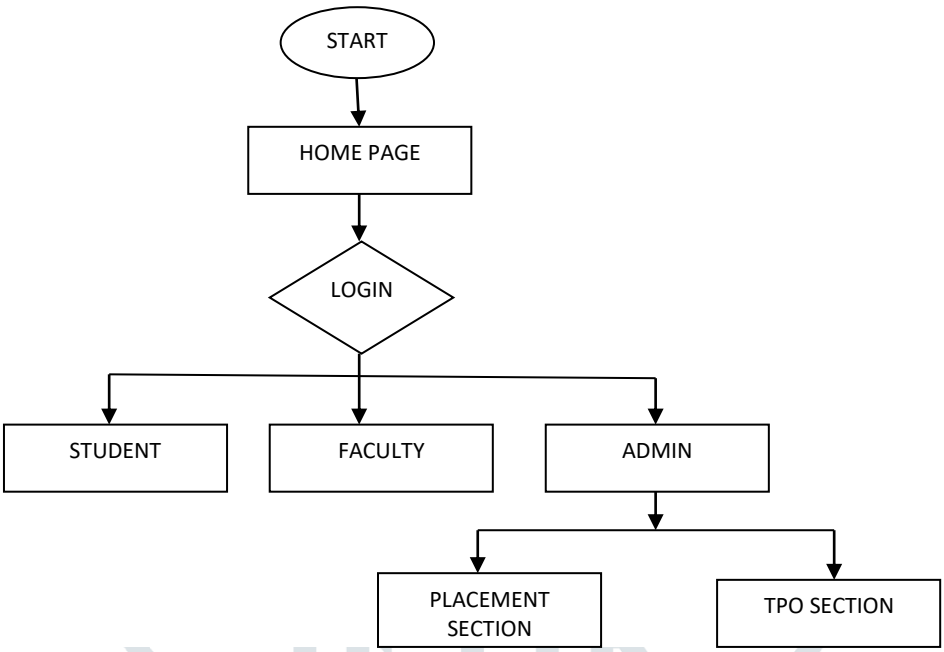

Fig. 1 Data Flow Diagram

1. ADMINISTRATOR

The admin will Update, Delete, Add and manages the student accounts. The admin will also Update, Add, Delete and manages the faculty accounts. The admin will also update events details which are organized in college. The admin will also update the information of students which are placed in the company. Admin will also update the upcoming company drives information which will be display to student and faculty panel.

2. *FACULTY*

The faculty can update the records of student attendance and can also update the internal marks of each students. Faculty can also view the information of particular students whenever they required. Teachers can also be generate the defaulter list of students. Faculty can add their information which will be also displayed to the student panel as well as admin panel. Faculty can also upload the notices for the students which will be displayed to their student panel. Faculty can also contact student personally through E-mail.

3. *STUDENT*

Student can Add, Update, Delete the information. Student can view the each faculty details like email id, contact number, name and for which subject the faculty is teaching. Students can also upload marksheet which will be refer by teacher. Students can also apply for company drives and can view the company details, eligibility criteria and time and date the drive have been arranged. Students can also make a leave note and the leave note will be generated to the teacher panel. Students can also view his attendance records. Student can also view the details of students who have been placed in the company.

PLACEMENT RECORDS

Information of last year students who got placed in the companies.

5. TRAINING AND PLACEMENT OFFICER

Under the training and placement officer section the placement officer will update the placement related information like job profile, eligibility criteria, name of the company. Interested student can apply for the drives.
The placement officer will update the list of the student who got placed in the company.

REQUIREMENT ANALYSIS:

The basic necessities for the planning of the Database Search Optimizer are:

- Every student and teacher should have their unique own identity Login .
- Student can update his or her personal information and also can view the notice, results ,placement and exam section updates etc.
- Teacher, training placement officer and admin sections can update any of the information.

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SCOPE FOR DEVELOPMENT OF THIS PROJECT

- Database Search Optimizer deals with all fairly student, instructional connected reports, staff, and completely different resource connected details too.
- The progress at intervals the completed semesters years, returning semester year details, test details, project or the other assignment details, test result, and every one these are accessible for future references too.
- The details like staff details, student details, training placement officer data, Alumni Details. case of manual system can needed longer, personnel etc. Here virtually
- All work is computerized that the accuracy is maintained. Maintaining backup is incredibly simple. It will do with in an exceedingly couple of minutes.
- The above mention points are the enhancement which can be done to increase ability and usage of this project.

PRE-REQUISITES:

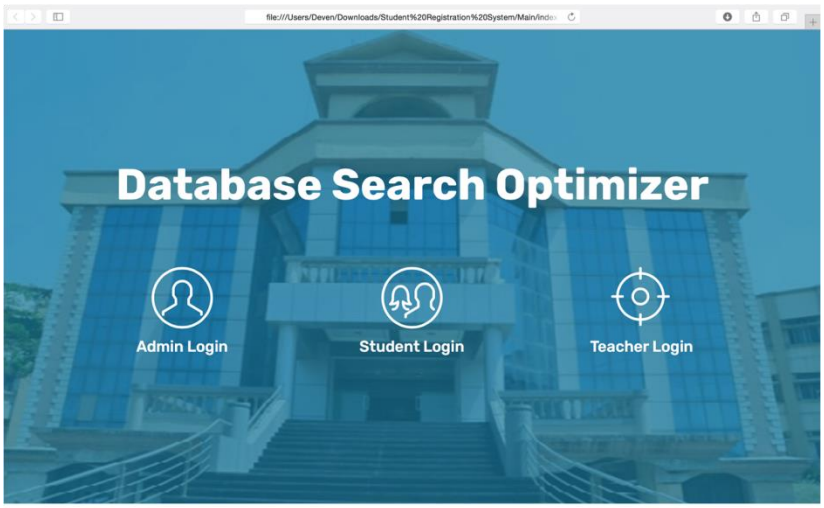
- Database Search Optimizer requires Java JRE 1.8 or higher. Since Database Search Optimizer is written in Java, it will run on any platform that supports the Java runtime environment 1.8 or higher. The compiled files are contained in Java Archives (JAR's) and ought to be outlined within the class path environment variable.

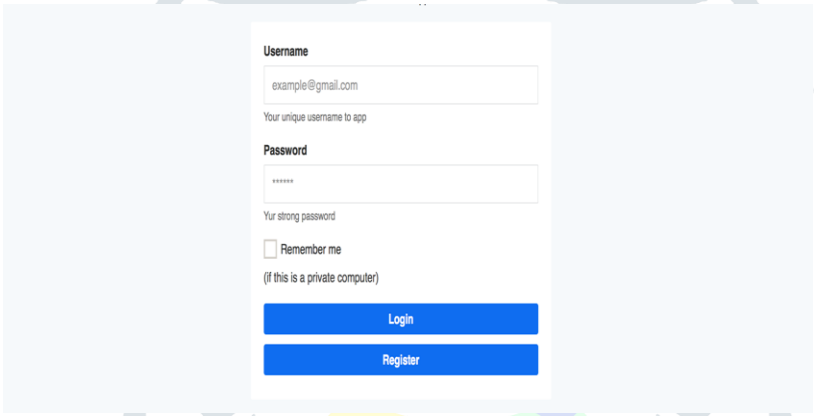
- JSP : Java Server Pages(JSP) is used to create web application. JSP page contains tags like HTML
  It also contains addition features expression language, custom tags etc. Advantages of JSP are easy to maintain, less to code, fast development.

- HTML : HTML Hyper Text Markup Language. Using HTML we can create web pages which will be easy to users to interact. In HTML elements are represented by tags and buildings blocks of HTML pages.

- CSS : CSS Cascading Style Sheet. CSS represent how HTML elements are to be displayed on screen. CSS also depends on HTML or vice versa.

RESULTS:


Database Search Optimizer
Admin Login
Student Login
Teacher Login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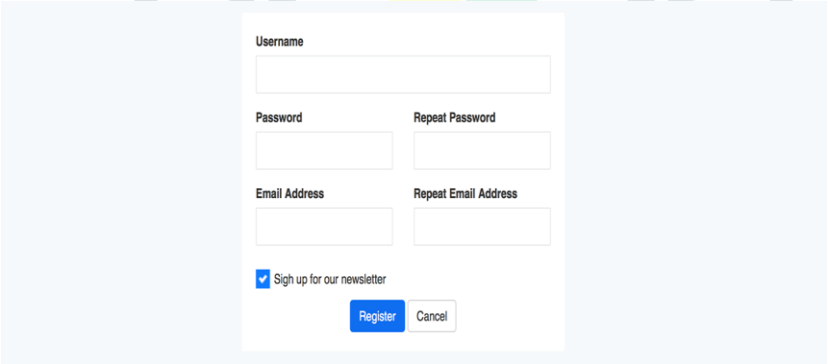
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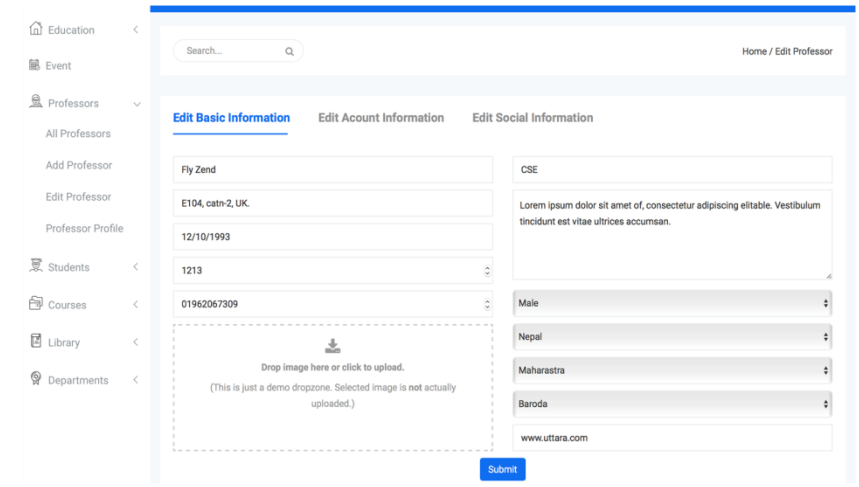
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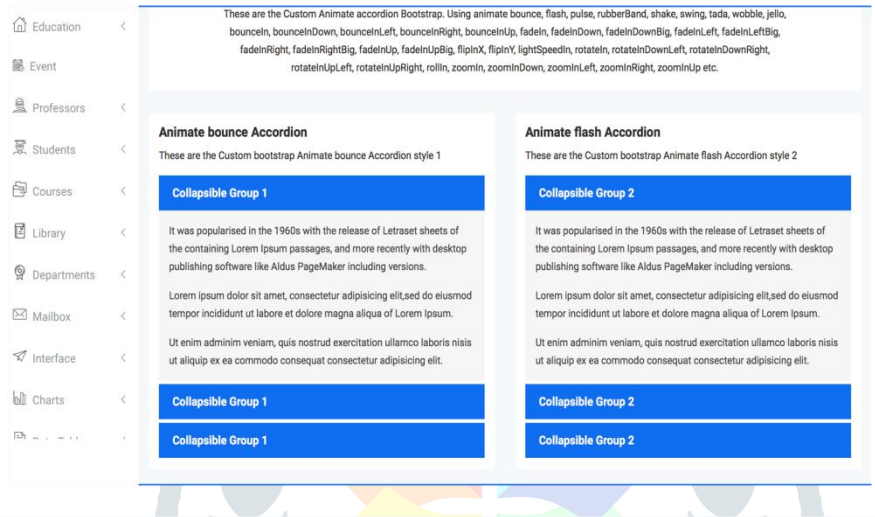
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Animate bounce Accordion
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Collapsible Group 1
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Collapsible Group 2
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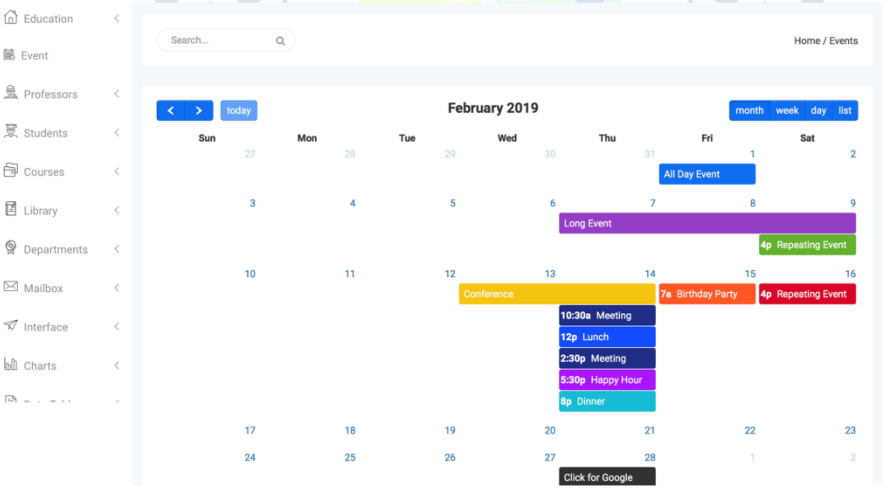
Collapsible Group 2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12p Lunch
2:30p Meeting
5:30p Happy Hour
8p Dinner
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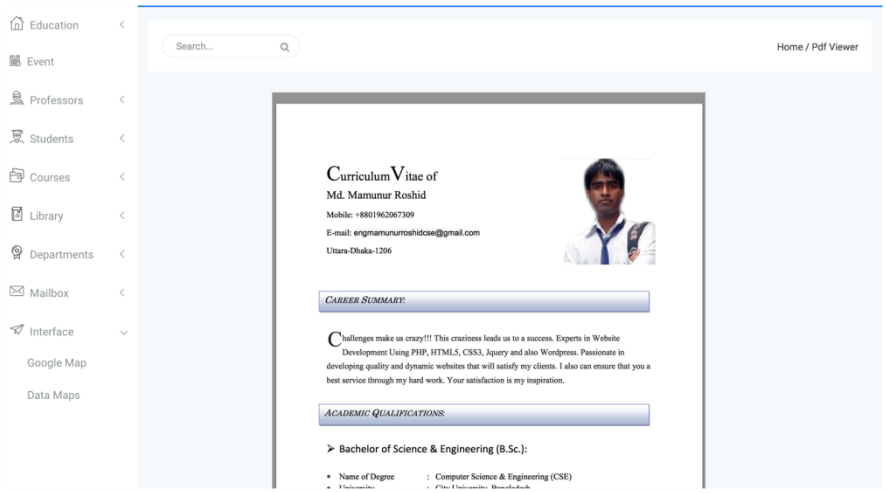

CONCLUSION

The project entitled as Database Search Optimizer is the system that deals with the issues related to a particular institution. This project is with success enforced with all the options mentioned in system necessities specification. The website provides applicable data to users in keeping with the chosen service.

The project is meant keeping visible the day to day issues round-faced by a university.

This paper assists in automating the prevailing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced.

All years along gathered info is saved and might be accessed at any time. The data that is hold on within the repository helps in taking intelligent selections by the management. So it's higher to possess an online primarily based info Management system. All the stakeholders, college and management will get the desired info directly. This system is important within the colleges and universities.

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