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A project report on
"ONLINE EXAMINATION SYSTEM"
Database Management Systems
20IS520

Bachelor of Engineering
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ONLINE EXAMINATION SYSTEM

The Online Examination System database for college is a system that is designed to manage and also enable the administration and delivery of tests and quizzes over the internet. The system can be used for various types of assessments, such as academic exams, certification tests, and job-related assessments. In your project, you have developed an online examination system that allows for the creation, administration, and grading of exams online. The system includes features such as question bank, time limits, and automatic grading. It also offers different types of questions like multiple choice, true/false and short answers. Additionally, the system can be accessed remotely by students, employees, or other individuals, providing a convenient and efficient way to assess knowledge and skills. The implementation of this online examination system can be used in education, corporate or any other sector where assessment of knowledge is required. It can be used as a tool for online learning, online certification or online recruitment.

Our DBMS project includes several important tables such as admin, branch, Exam_answers, Exam_attempt, Examinee, Exam_question, Exam and Feedback which are used to store, manage and retrieve data related to the administration, branches, examination answers, examination attempts, examinees, examination questions, examination and feedback of the system.

Admin

This table is used to store the login credentials of an administrator. The "admin_id" is a unique identifier for each administrator, "admin_user" is the username, and "admin_pass" is the password.

Branch

This table is used to store the information of different branches of the system. The "branch_id" is a unique identifier for each branch, "branch_name" is the name of the branch. It can be used to identify the location or department.

Examinee

This table is used to store the information of different examinees. The "exmne_fullname" is the full name of examinee, "branch_id" is the id of the branch where the examinee belongs, "exmne_gender" is the gender of the examinee, "exmne_birthdate" is the birthdate of the examinee, "exmne_year_level" is the year level of the examinee, "usn" is the unique student number of the examinee, "exmne_password" is the login password of the examinee and "exmne_status" is the status of the examinee.

Exam

This table is used to store the information of the different exams that are available for the examinees to take. The "ex_id" is the primary key, "branch_id" references the branch of the exam, "ex_subject" is the subject of the exam, "ex_time_limit" is the time limit for the exam, "ex_questlimit_display" is the number of question for the exam, "ex_description" is the description of the exam and "ex_created" is the timestamp of when the exam was created. This table can be used to manage the exams available to the examinees, and to keep track of the different subjects and time limits for the exams, as well as the number of questions and a description of the exam.

Exam Questions

This table is used to store the information of the different questions for the exams. The "eqt_id" is the primary key, "exam_id" is the id of the exam, "exam_question" is the question, "exam_ch1","exam_ch2","exam_ch3","exam_ch4" are the choices, "exam_answer" is the correct answer, and "exam_status" is the status of the question, defaulted to "active". This table can be used to manage the questions for the exams, and to keep track of the questions and choices for the exams, as well as their status.

Exam Answers

This table is used to store the answers of the examinee for the exams questions. The "exans_id" is the primary key, "axmne_id" is the id of the examinee, "exam_id" is the id of the exam, "quest_id" is the id of the question, "exans_answer" is the answer given by the examinee, "exans_status" is the status of the answer, and "exans_created" is the timestamp of when the answer was created. This table is used to keep track of each individual answer given by an examinee for a particular exam and question. The data stored in this table can be used to evaluate the performance of the examinee and generate reports on the overall results of the exam.

Exam Attempts

This table is used to keep track of each attempt made by an examinee for a particular exam. The data stored in this table can be used to restrict the number of attempts an examinee can make for a particular exam, and to track the progress of the examinee.

Feedback

This table is used to keep track of feedback provided by examinees, which can be used to improve the overall experience of the examinee and the examination system. The data stored in this table can be used to generate reports on the feedback provided by examinees and to track the progress of the examination system.
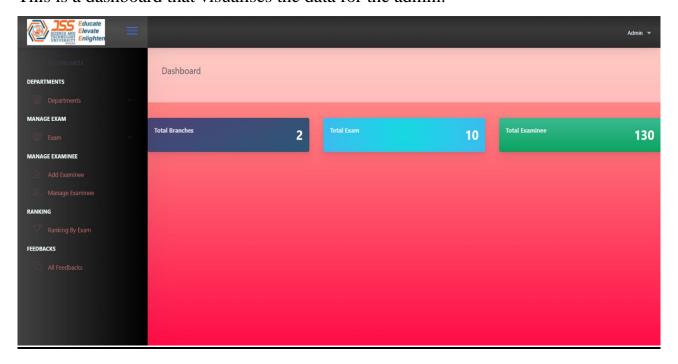
Admin Interface

Login page
This panel is used by the admin to log into their account.
They have to enter their unique username and password.
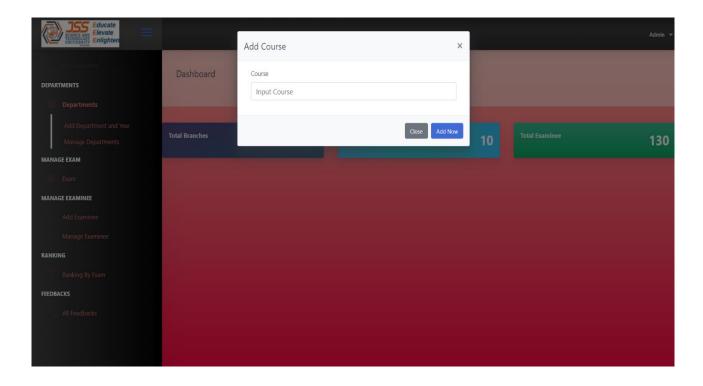The password is secured by md5 algorithm.

Dashboard

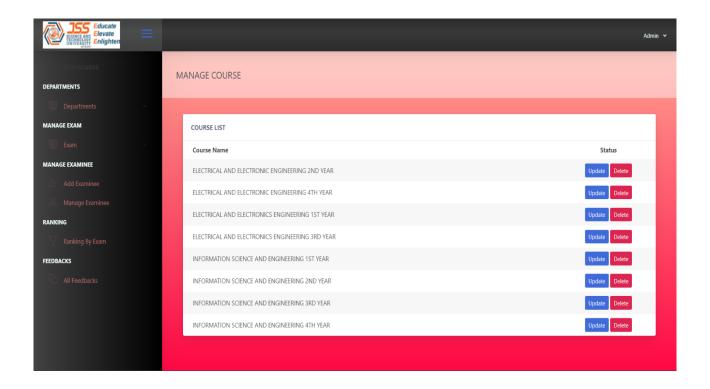This is a dashboard that visualises the data for the admin.

Department

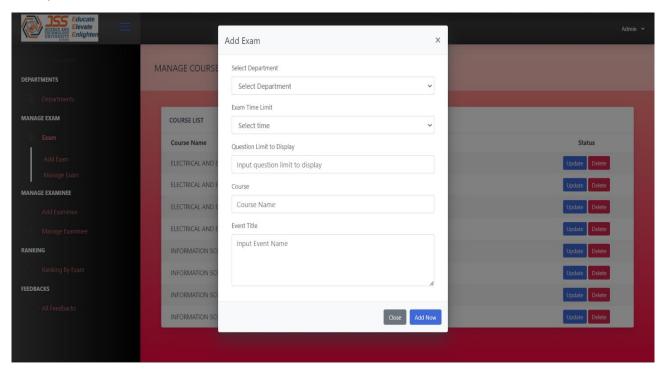In this section we can add department by specifying its name.

Manage Department

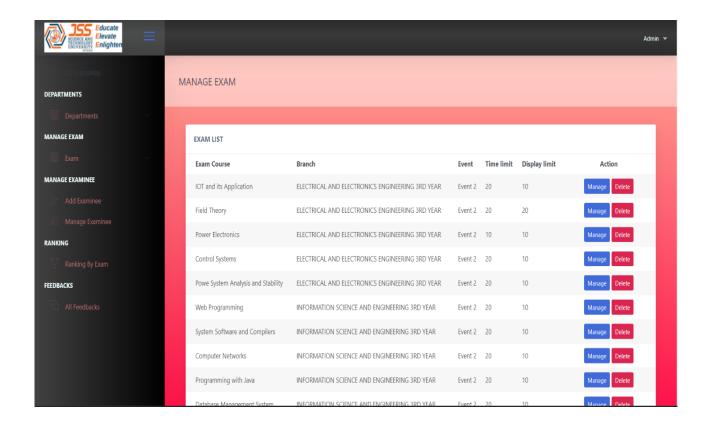This section has the details of all the departments.We can update department details and also delete departments.

Add Exam

In this section we can add exam by specifying department name,time limit,question limit,course and exam title.
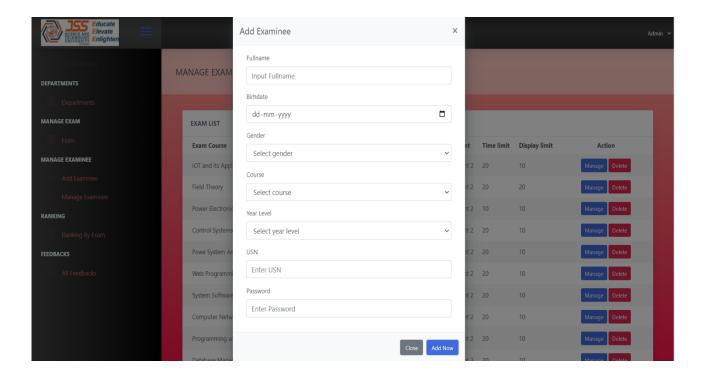

Manage Exam

This section has the details of all the exams.We can update exam details and also delete exam.
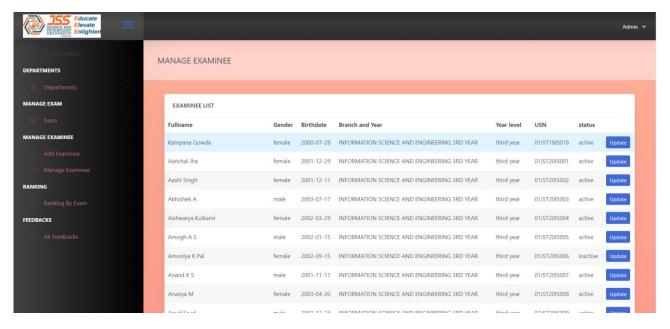
Add Examinee

In this section we can add examinee by specifying Examinee name,DOB,Gender,Course,Year level,USN and Password.
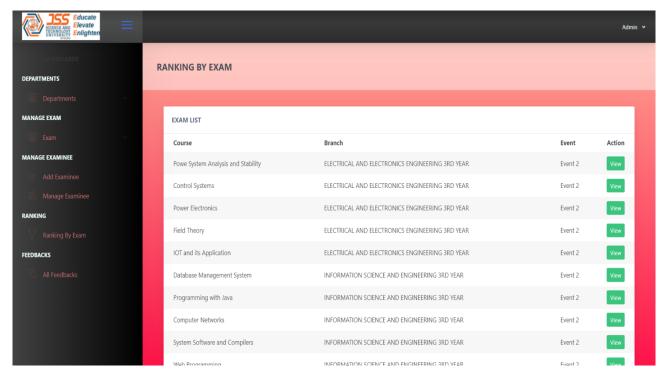

Manage Examinee

This section has the details of all the examinees.We can update examinee details and also delete examinee.

Ranking by Exam

The ranking page of the website displays a comprehensive list of students' ranking for each subject, based on their performance in the examination, which allows users to quickly and easily view the top-performing students in each subject.

Feedback

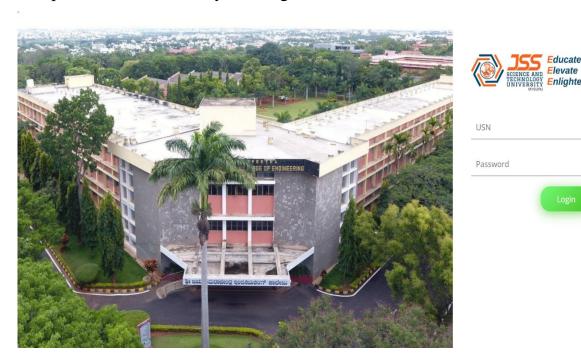In this section it displays the feedbacks provided by examinee.

User Interface

Login

This panel is used by the examinee to log into their account.
They have to enter their USN and password to login.
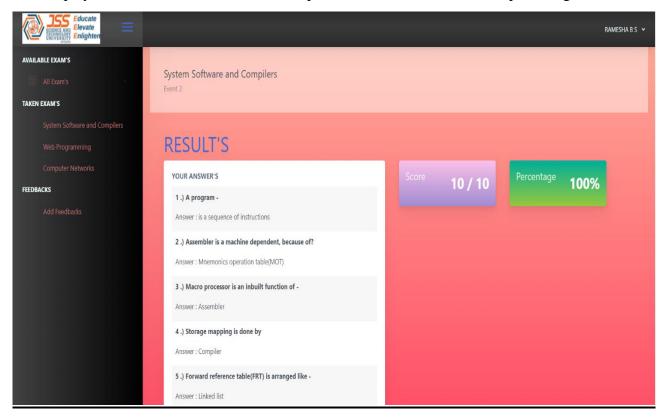The password is secured by md5 algorithm.

Home page

This section displays all the available exams and exams which the user has already taken
and feedback button to provide feedback.

Results page

This displays result to the examinee after completion of exam with score and percentage.

Feedback

In this section examinee can provide feedback by answering certain questions displayed.