

JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING
JSS Technical Institutions Campus, Mysuru – 570 006



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

Bachelor of Engineering
in
INFORMATION SCIENCE AND ENGINEERING

Submitted by,

NAME	USN
Punya Keshav	01JST20IS035
Suhas M S	01JST20IS045
Ramesh B S	01JST20IS058
Gagan Gowda L	01JST21IS400

Submitted to,

Dr. R J Prathibha
Associate professor
ISE Department

JANUARY 2023

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.



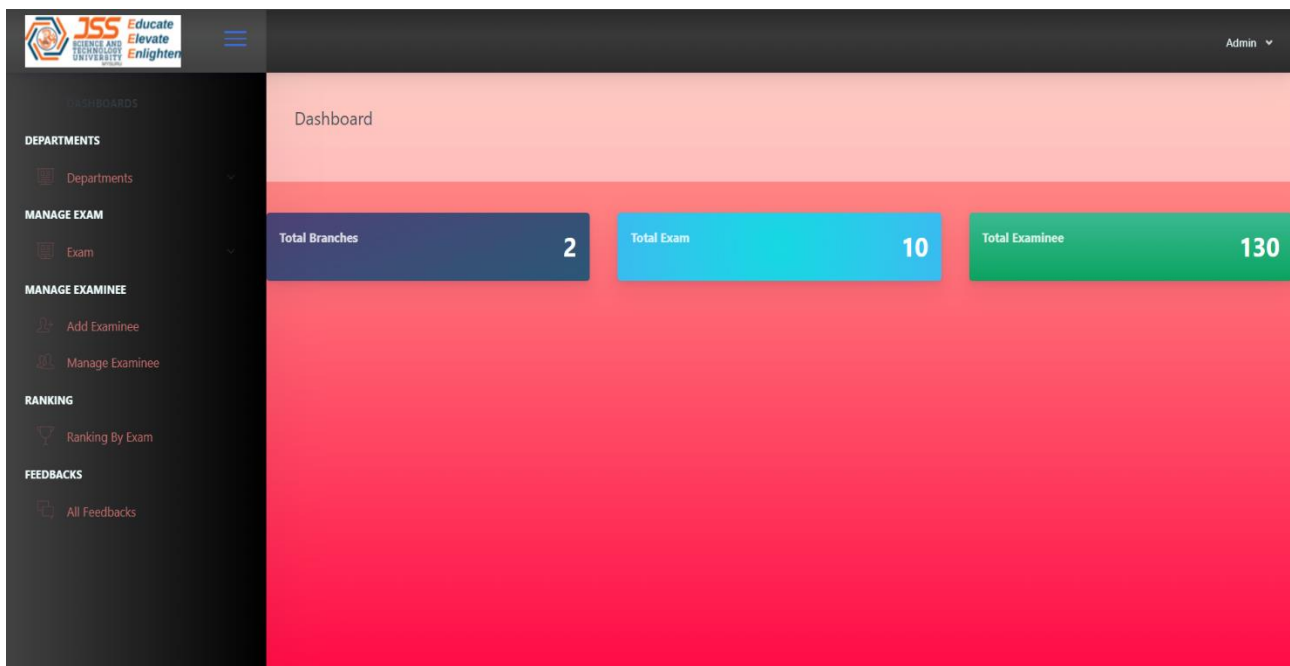
Username

Password

Login

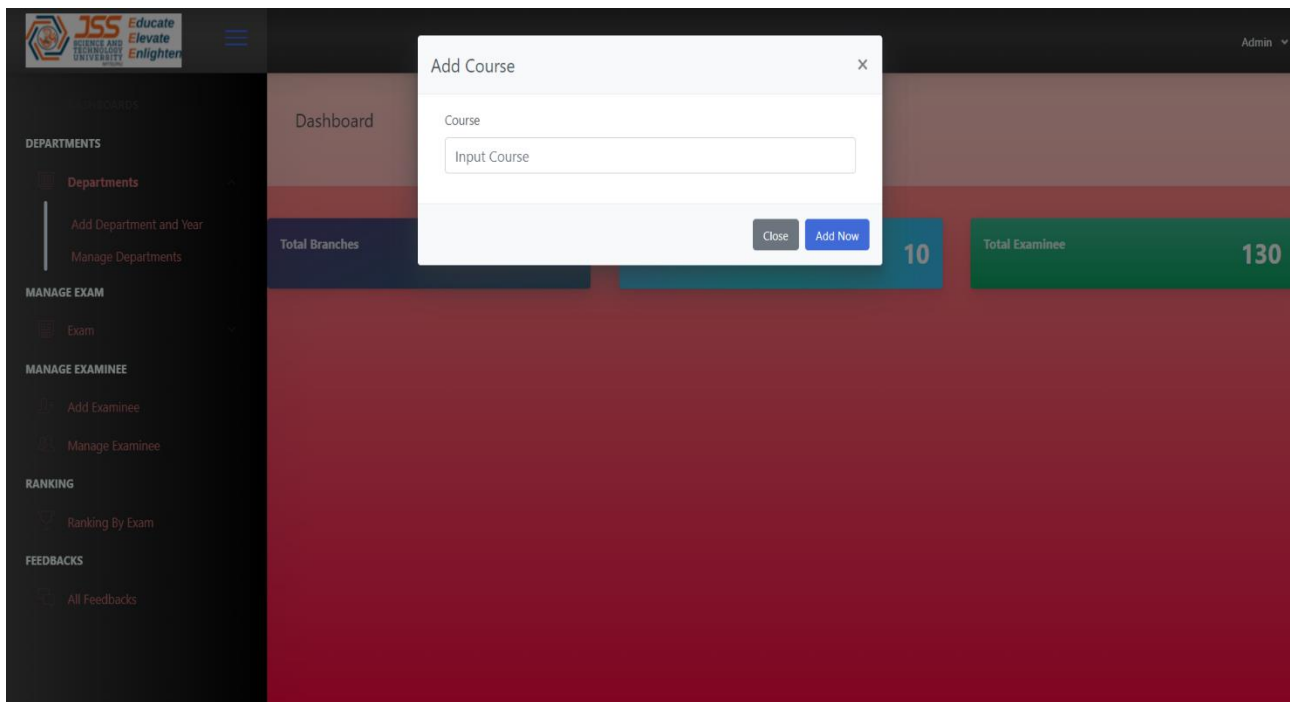
Dashboard

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



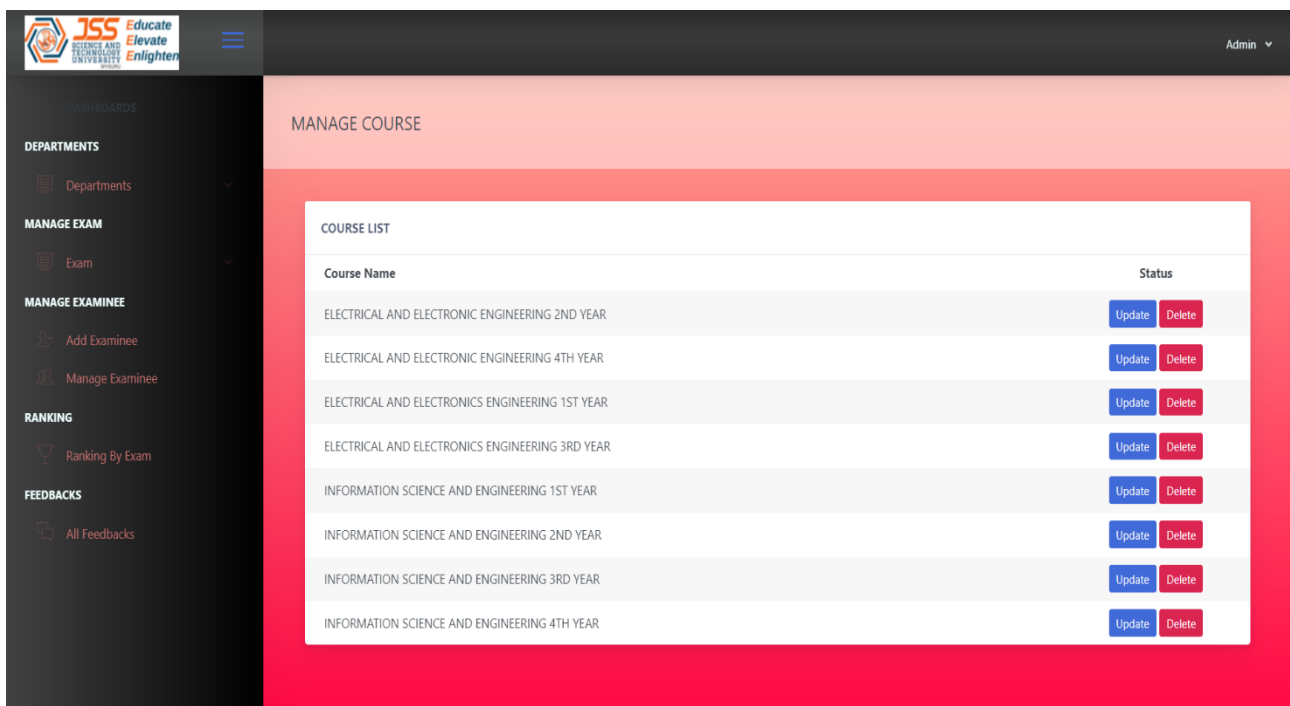
Department

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.

Add Exam

Select Department
Select Department

Exam Time Limit
Select time

Question Limit to Display
Input question limit to display

Course
Course Name

Event Title
Input Event Name

Close Add Now

Manage Exam

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

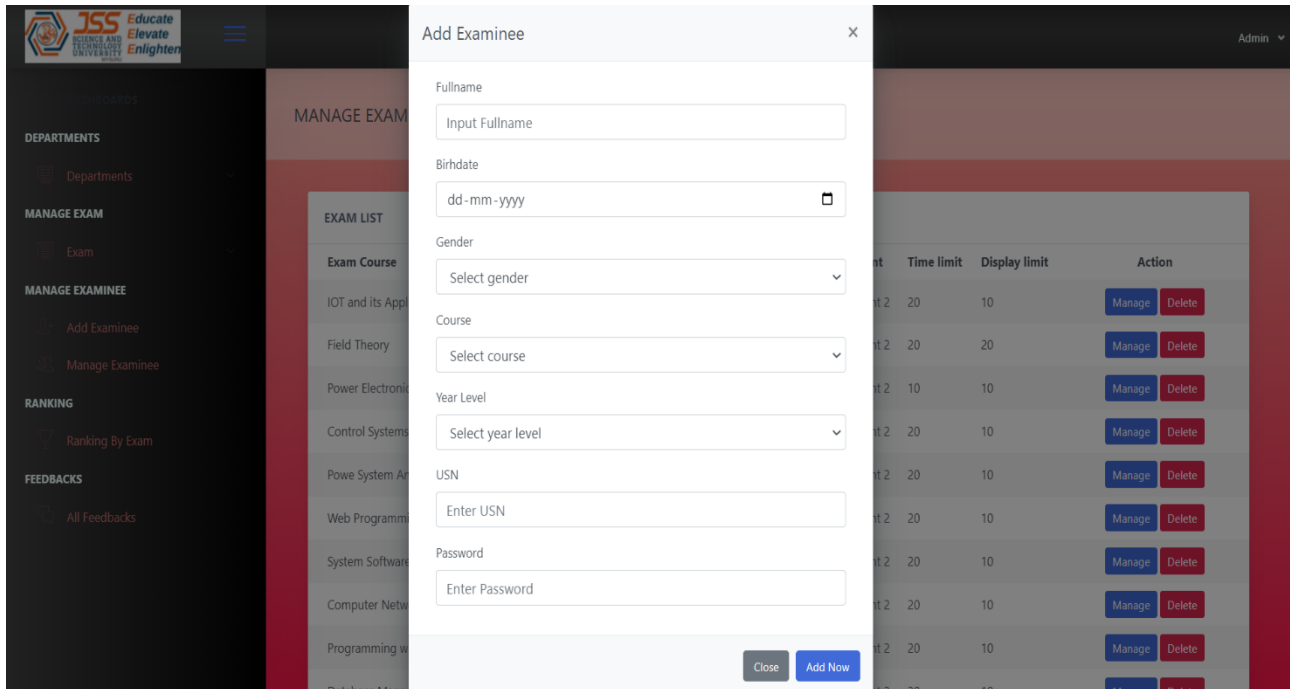
MANAGE EXAM

EXAM LIST

Exam Course	Branch	Event	Time limit	Display limit	Action
IOT and its Application	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Field Theory	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	20	20	Manage Delete
Power Electronics	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	10	10	Manage Delete
Control Systems	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Powe System Analysis and Stability	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Web Programming	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
System Software and Compilers	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Computer Networks	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Programming with Java	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete
Database Management System	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	20	10	Manage Delete

Add Examinee

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

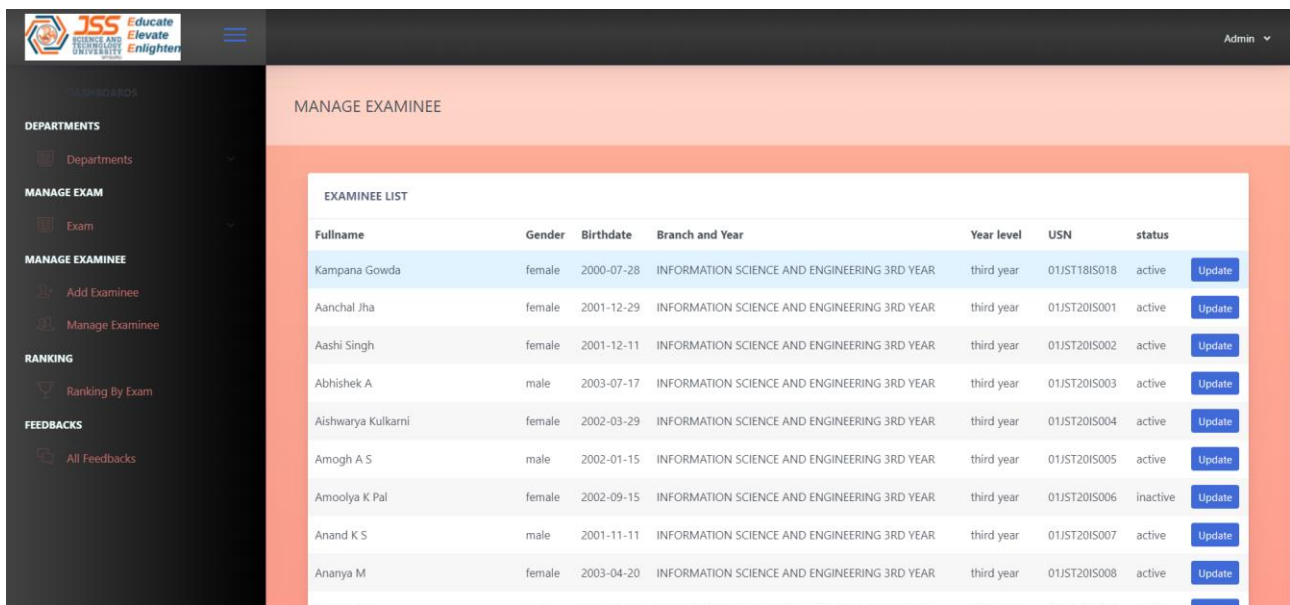


The 'Add Examinee' form is a modal window with the following fields and options:

- Fullname:** Input Fullname
- Birthdate:** dd-mm-yyyy
- Gender:** Select gender
- Course:** Select course
- Year Level:** Select year level
- USN:** Enter USN
- Password:** Enter Password
- Buttons:** Close, Add Now

Manage Examinee

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

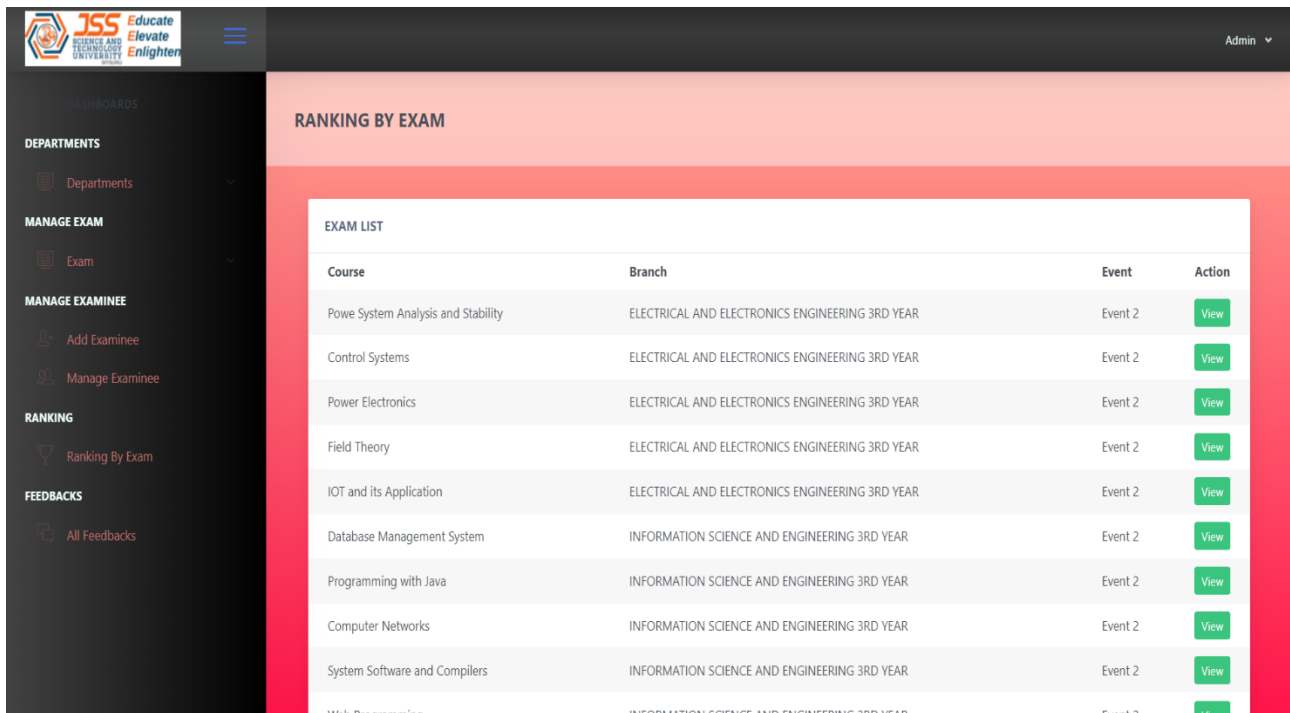


The 'Manage Examinee' page displays a table of examinees with the following columns: Fullname, Gender, Birthdate, Branch and Year, Year level, USN, status, and an Update button.

Fullname	Gender	Birthdate	Branch and Year	Year level	USN	status	
Kampana Gowda	female	2000-07-28	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT18IS018	active	Update
Aanchal Jha	female	2001-12-29	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS001	active	Update
Aashi Singh	female	2001-12-11	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS002	active	Update
Abhishek A	male	2003-07-17	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS003	active	Update
Aishwarya Kulkarni	female	2002-03-29	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS004	active	Update
Amogh A S	male	2002-01-15	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS005	active	Update
Amoolya K Pal	female	2002-09-15	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS006	inactive	Update
Anand K S	male	2001-11-11	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS007	active	Update
Ananya M	female	2003-04-20	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS008	active	Update
Anudhara	female	2003-12-24	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	third year	01JT20IS009	active	Update

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.



JSS Educate Elevate Enlighten
SCIENCE AND TECHNOLOGY UNIVERSITY
BELLARY

Admin ▾

RANKING BY EXAM

EXAM LIST

Course	Branch	Event	Action
Power System Analysis and Stability	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	View
Control Systems	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	View
Power Electronics	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	View
Field Theory	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	View
IOT and its Application	ELECTRICAL AND ELECTRONICS ENGINEERING 3RD YEAR	Event 2	View
Database Management System	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	View
Programming with Java	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	View
Computer Networks	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	View
System Software and Compilers	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	View
Web Programming	INFORMATION SCIENCE AND ENGINEERING 3RD YEAR	Event 2	View

Feedback

In this section it displays the feedbacks provided by examinee.



FEEDBACKS

USN	Feedback Question	Rating
01JST20IS058	How easy or difficult did you find the test to be?	4
01JST20IS058	Were the test questions clear and easy to understand?	3
01JST20IS058	How well did the test align with the material covered in class?	5
01JST20IS058	Did you feel prepared for the test?	2
01JST20IS058	Overall, how would you rate your experience taking this test?	3

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.



USN

Password

Login

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.

The screenshot shows the JSS (Jawahar Education Society's) results page. The header includes the JSS logo and the motto 'Educate Elevate Enlighten'. The user's name 'RAMESHA B.S.' is displayed in the top right. The left sidebar contains navigation links for 'AVAILABLE EXAM'S', 'TAKEN EXAM'S', and 'FEEDBACKS'. The main content area displays the exam title 'System Software and Compilers' and 'Event 2'. Below this, the word 'RESULT'S' is prominently shown. A box titled 'YOUR ANSWER'S' lists five questions with their respective answers. To the right of this box, two colored boxes show the 'Score' as '10 / 10' and the 'Percentage' as '100%'.

AVAILABLE EXAM'S

- All Exam's

TAKEN EXAM'S

- System Software and Compilers
- Web Programming
- Computer Networks

FEEDBACKS

- Add Feedbacks

System Software and Compilers
Event 2

RESULT'S

YOUR ANSWER'S

- 1.) A program -
Answer : Is a sequence of instructions
- 2.) Assembler is a machine dependent, because of?
Answer : Mnemonics operation table(MOT)
- 3.) Macro processor is an inbuilt function of -
Answer : Assembler
- 4.) Storage mapping is done by
Answer : Compiler
- 5.) Forward reference table(FRT) is arranged like -
Answer : Linked list

Score **10 / 10**

Percentage **100%**

Feedback

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

The screenshot shows a feedback form titled 'PLEASE PROVIDE YOUR FEEDBACK'. It contains five numbered questions, each followed by a text input field labeled 'Enter serial no'. At the bottom of the form is a 'SUBMIT' button.

PLEASE PROVIDE YOUR FEEDBACK

- 1.How easy or difficult did you find the test to be?
Enter serial no
- 2.Were the test questions clear and easy to understand?
Enter serial no
- 3.How well did the test align with the material covered in class?
Enter serial no
- 4.Did you feel prepared for the test?
Enter serial no
- 5.Overall, how would you rate your experience taking this test?
Enter serial no

SUBMIT