ASSIGNMENT-3
EXAM ANALYZEMENT SYSTEM

Hosting link:

OBJECTIVE:

The primary objective is to obtain a comprehensive understanding of students' knowledge and skills on a department-by-department basis. This initiative is driven by the belief that such insights can yield valuable benefits for the academic institution as a whole, contributing to the growth of departments, enhancing staff performance, and offering students a clear view of their departmental position over time.

In summary, this objective is a multifaceted approach to enhancing the educational experience within the institution. By assessing students' knowledge and skills departmentwise, it allows for a more precise evaluation of their performance and development. Simultaneously, it enables the institution to track the growth of each department, ensuring that they are adequately supported and resourced. Moreover, this initiative aims to improve staff performance, which directly benefits students by providing a higher quality of education. By offering students statistical information about their departmental position, the institution empowers them to make more informed decisions about their academic journey. All of these components are underpinned by the collection and utilization of statistical data, which serves as the foundation for evidence-based decision-making. In this way, the institution strives for excellence and continuous improvement in its educational offerings.

SCOPE:

The scope of this project “examination Analyzement system” website is to provide an information about the student marks as well as the statistical information about the average marks scored by the departments. The main scope of our mini project is to provide a clear vision about marks scored by the departments by our website student as well as staff will come to know which department has high average for past years. It will help to know the improvement of students based on departments not only marks,placement statistics also we will show in our website.

So it will help us to motivate the juniors who wants to get placements with high package.

The scope of our project, the "Examination Analyzement System" website, is welldefined and serves as a valuable tool for both students and staff.

Our website will provide information about individual student marks, making it easy for students to access their academic performance data. This will help students and staff understand which departments have consistently performed well over the past years.

This information can be instrumental in recognizing departments that have improved or need improvement. Our project's insights into departmental performance and placement statistics can serve as a source of motivation and guidance for students.

Overall, our project aims to provide a holistic view of the academic and placement performance within our educational institution. It has the potential to serve as a valuable resource for students, staff, and especially junior students looking to achieve academic excellence and secure lucrative job opportunities. By presenting this information in a clear and accessible manner on our website, you are contributing to the educational and career development of our institution's community.

REQUIREMENTS ANALYSIS:

Certainly, a requirements analysis for an exam analyzement system for both teachers and students might involve the following features:

System Overview:

1. User Authentication:
- Login for teachers and students with secure authentication methods.

2. Teacher's login:
- Access to student records.
- Upload and manage exam results.
- Generate reports and analytics.

3. Student's login:
- View personal exam results.
- Course progress tracking.

Functional Requirements:

1. Result Management:
- Ability for teachers to upload, update, and delete exam results.
- Automatic calculation of overall grades or marks.

2. Result Access:
- Students should be able to view their individual results.
- Privacy settings to control who can access specific data.

3. Course Information:
- Display courses students are enrolled in.
- Provide detailed information on each course.

4. Analytics and Reporting:
- Generate performance reports for individual students and classes.
- Visual representation of statistics (charts, graphs).

Non-functional Requirements:

1. Security:
- Secure data transmission and storage.
- Role-based access control to manage data visibility.

2. Scalability:
- Ability to handle a growing number of users and data.

3. User-Friendly Interface:
- Intuitive and easy-to-navigate design for both teachers and students.
- Responsiveness across various devices (desktops, tablets, mobile).

4. Performance:
- Fast loading times and minimal system downtime.

5. Accessibility:
- Compliance with accessibility standards for users with disabilities.

Technology and Implementation:

1. Web Development:
- Front-end: HTML, CSS, JavaScript for the user interface.
- Back-end: Framework like Django, Node.js, or Flask for server-side operations.
- Database: MySQL, PostgreSQL, or MongoDB for data storage.
- API integration for any additional functionalities.

2. Testing and Maintenance:

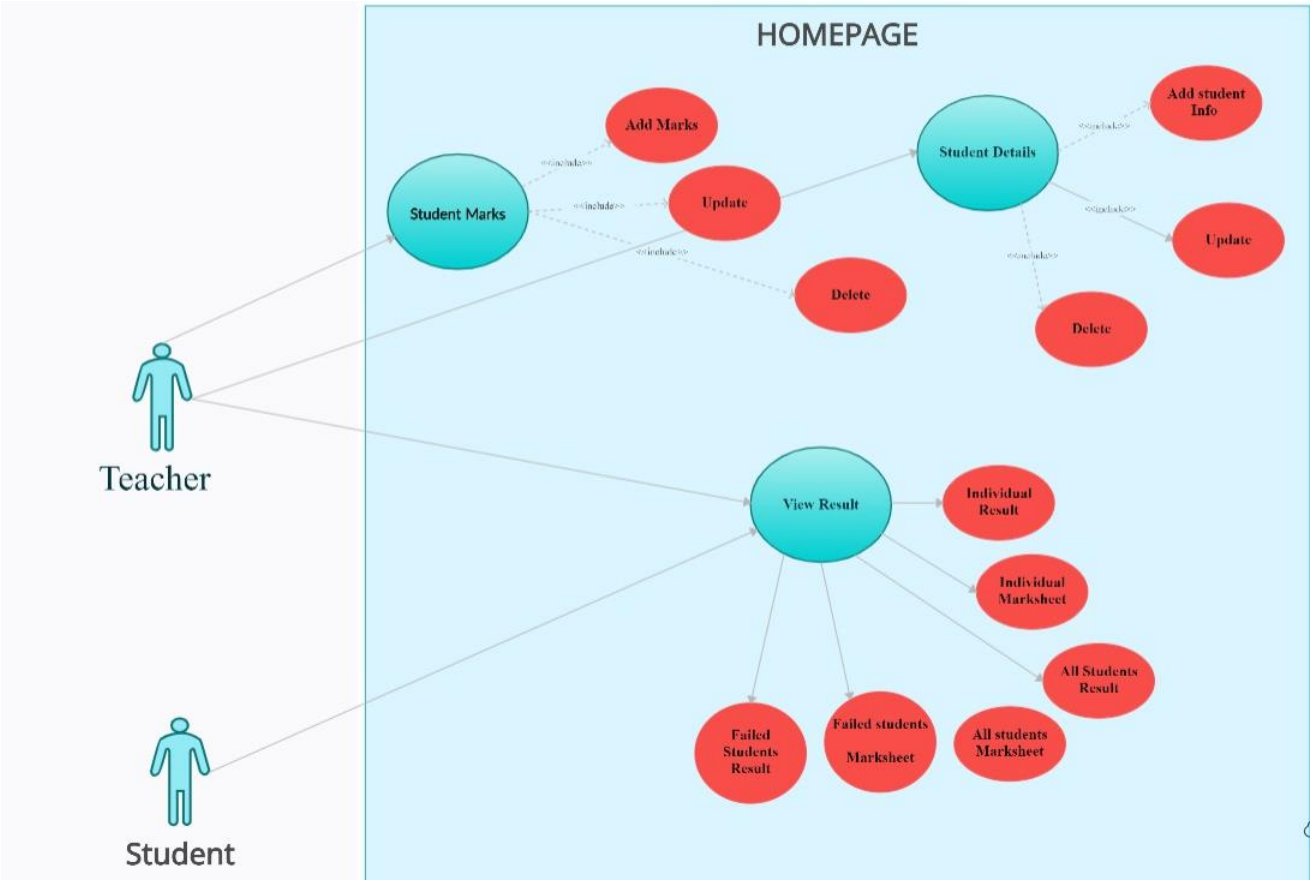
- Regular testing for bugs and issues.
- Planned maintenance and updates.

3. Documentation:

- Detailed system documentation for future reference and troubleshooting.

This analysis serves as a foundation to understand the features and functionalities needed for the exam result system, both from the perspective of the teachers and the students. It's crucial to further refine these requirements, considering specific user needs and feedback throughout the development process.

BLOCK DIAGRAM:



LIST OF MODULES:

CSS
Image.jpeg
about.html
add_classes.php
add_results.php
add_students.php
admission.css
admission.html
app.js
contact.html

Course.css
Course.html
Dashboard.html
Dashboard.php
Event.css
Event.html
Footer.css
Func.php
Gallery.html
Head.css
Index.html
Init.php
Login.html
Login.php
Logout.php
Main.css
manage_classes.php
manage_results.php
manage students.php
session.php
signup.html
student.php

EXPLANATION OF MODULES:

In an exam analyzement system, modules represent different sections or functionalities within the system.

1. about.html: This file likely contains information about the system, providing details about its purpose, features, and maybe information about the developers or contributors.
2. add_classes.php: This file is probably responsible for adding new classes or courses to the system. It might include a form for inputting class details.
3. add_results.php: This file likely handles the addition of exam results. It could have a form where staff members can input student grades and other related information.
4. add_students.php: This is likely where new student information is added to the system. It might include a form for entering student details during the admission process.
5. admission.css: This stylesheet is probably responsible for styling the admission-related pages, ensuring a consistent and visually appealing design.
6. admission.html: This page might contain information and forms related to student admission, allowing potential students to apply to the institution.
7. app.js: This is a JavaScript file, and it's likely responsible for adding dynamic behavior to the web pages. It could handle things like form validation, interactive features, etc.
8. contact.html: This page likely provides contact information for the institution or the system administrators. It could include a contact form for users to reach out.
9. Course.css: This stylesheet probably handles the styling for pages related to courses or classes, ensuring a cohesive design across the site.

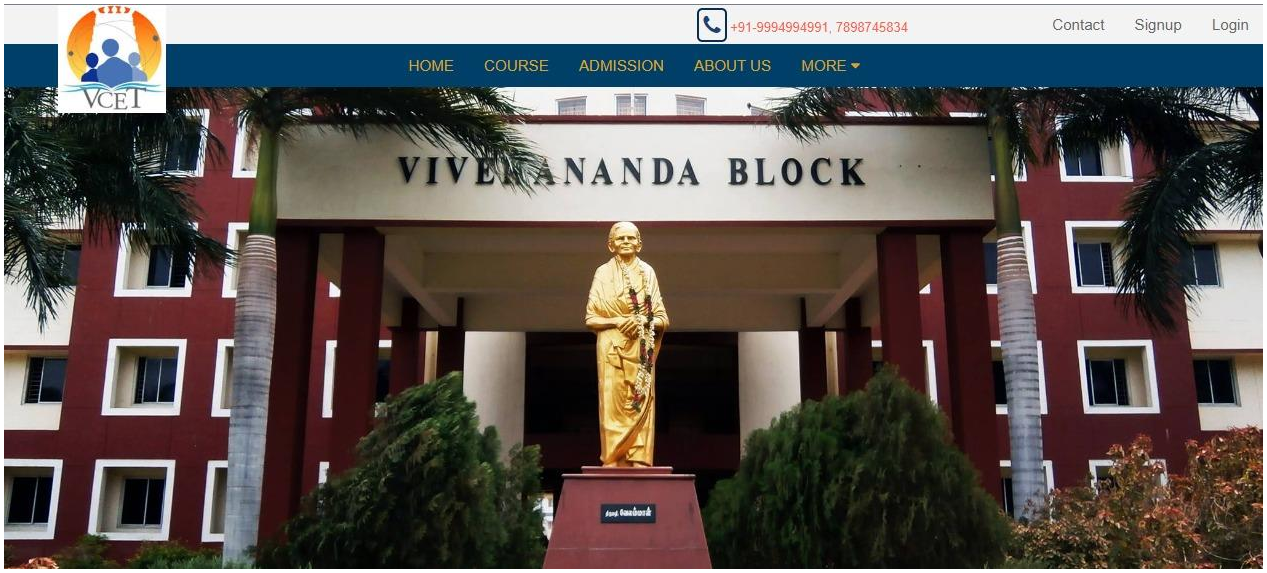
10. Course.html: This page may provide information about different courses offered, including details about each course.
11. Dashboard.html: A dashboard page is generally a central hub for users. It likely provides a summary of key information and links to various sections of the system.
12. Dashboard.php: This PHP file likely handles the backend logic for generating the dashboard, retrieving and displaying relevant data.
13. Event.css: This stylesheet probably styles pages related to events, ensuring a visually consistent design.
14. Event.html: This page may contain information about upcoming events or activities within the institution.
15. Footer.css: A stylesheet specifically for styling the footer section of the web pages, ensuring a consistent look and feel.
16. Func.php: This PHP file likely contains various functions used throughout the system. It could include functions for database connections, data processing, etc.
17. Gallery.html: This page might display a gallery of images related to the institution, events, or other relevant content.
18. Head.css: This stylesheet probably handles the styling for the head section of the HTML pages, ensuring consistent design for headers and other top sections.
19. Index.html: The main landing page of the system, providing an entry point for users and possibly featuring highlights or important announcements.
20. Init.php: This file likely contains initialization code for the system, setting up essential configurations, and connecting to the database.
21. Login.html: The login page, where users enter their credentials to access the system.
22. Login.php: This PHP file probably handles the backend logic for user authentication, verifying login credentials.
23. Logout.php: This file likely handles user logout functionality, ensuring a secure way for users to end their sessions.
24. Main.css: A central stylesheet that might include styling rules applying to various elements across multiple pages, ensuring a consistent overall design.
25. manage_classes.php: This file likely provides functionality for managing (viewing, editing, deleting) classes or courses.
26. manage_results.php: This file probably provides functionality for managing exam results, including viewing, editing, or deleting existing records.
27. manage_students.php: This file likely handles the management of student records, allowing staff to view, edit, or remove student information.
28. session.php: This file might handle session management, ensuring user authentication and security throughout the user's session.
29. signup.html: The page where new users can sign up for an account, providing necessary information for system access.
30. student.php: This file likely represents the student profile page, displaying individual student information, grades, and other relevant details.
These files collectively form the structure of the web development project, each playing a specific role in creating a comprehensive exam analyzement system.

OVERALL OUTPUTS:

Home page(index.html)

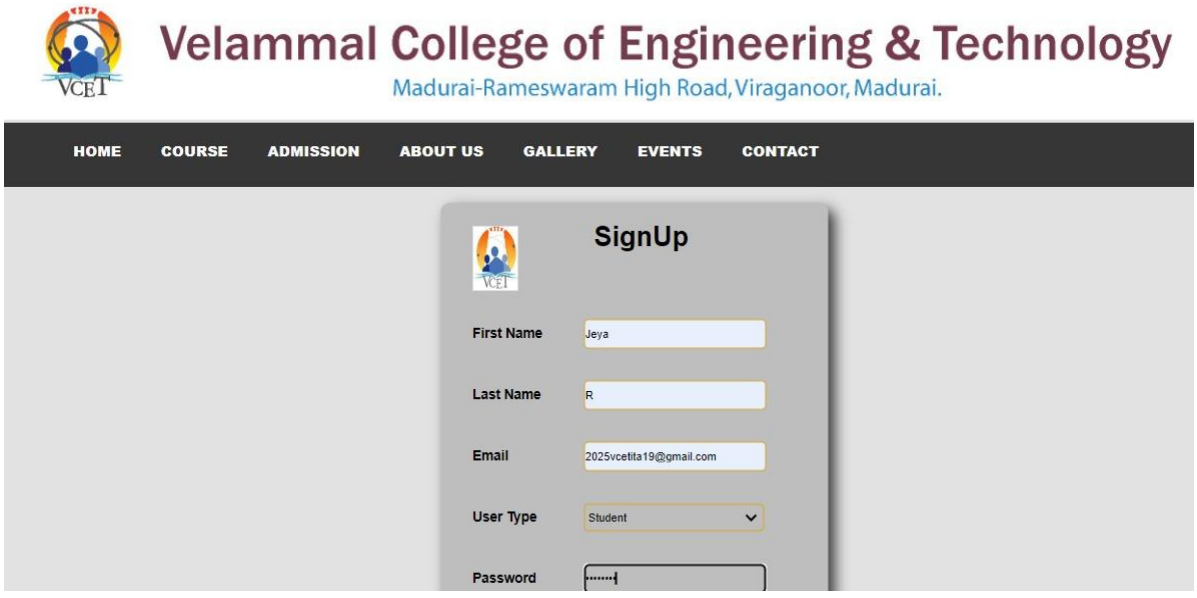
This page consist of details of our college. It includes Home, Course, Admission, About us, More. The Signup helps to include new students or faculties. It links to login page of Admin.

It consist of some hover effects and some html and CSS properties



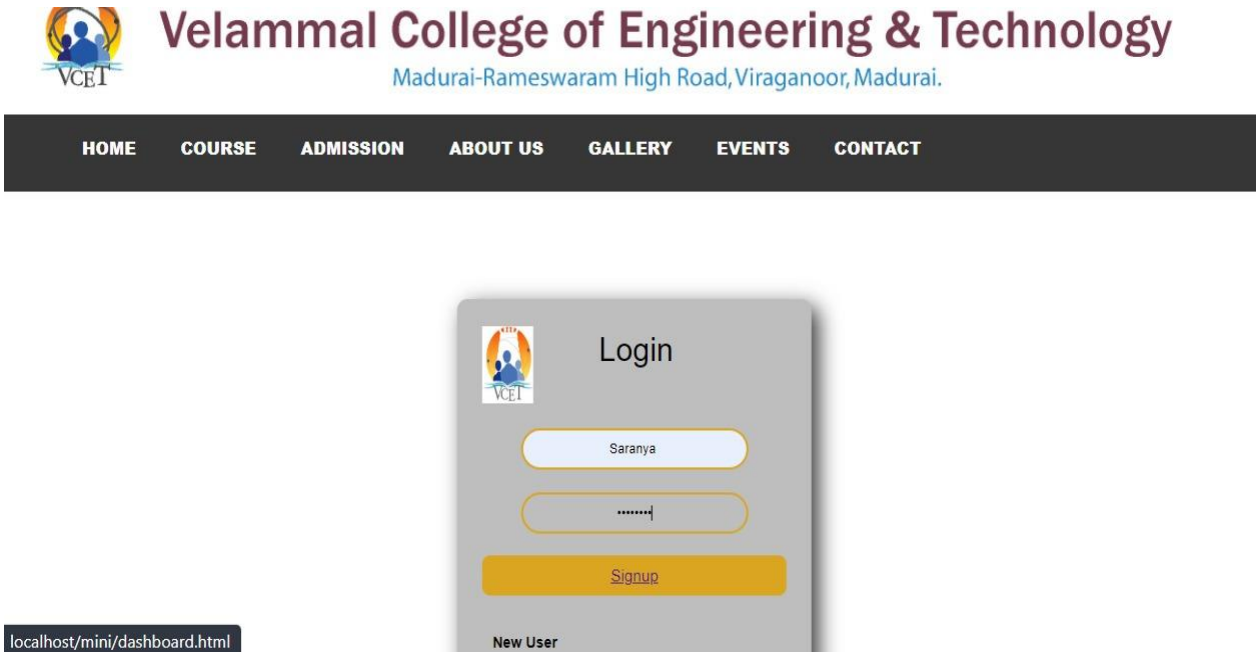
Signup page (sigup.html)

Here student can render their details to get into Vcet family. Over here we have added some JavaScript Validation to make the details secure.



Login page (login.html)

Here student who have already signed up will provide their name and password if they are part of Vcet family. Here too we have validated the following page for safe login.

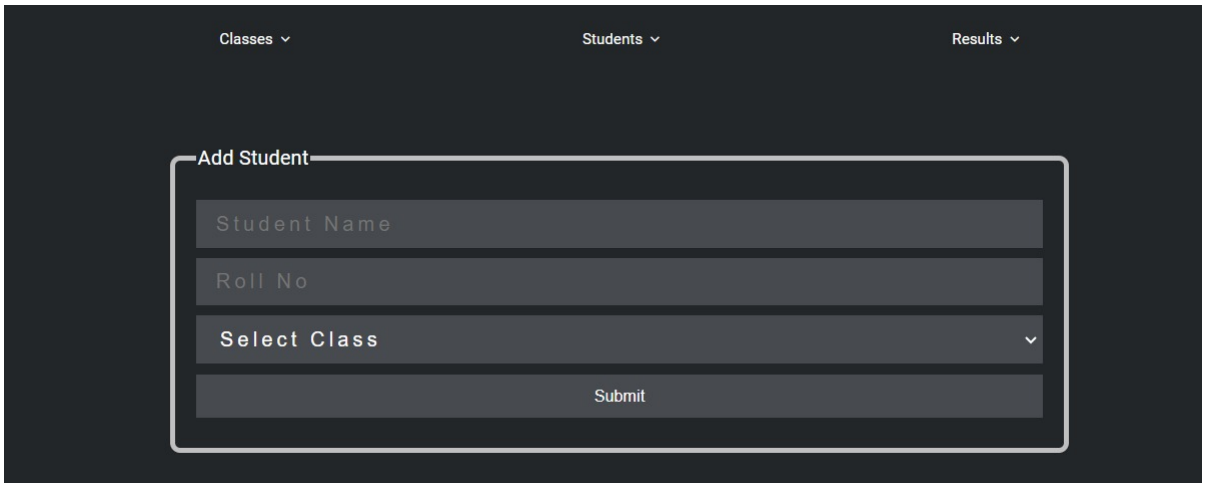


Dashboard page(dashboard.html)

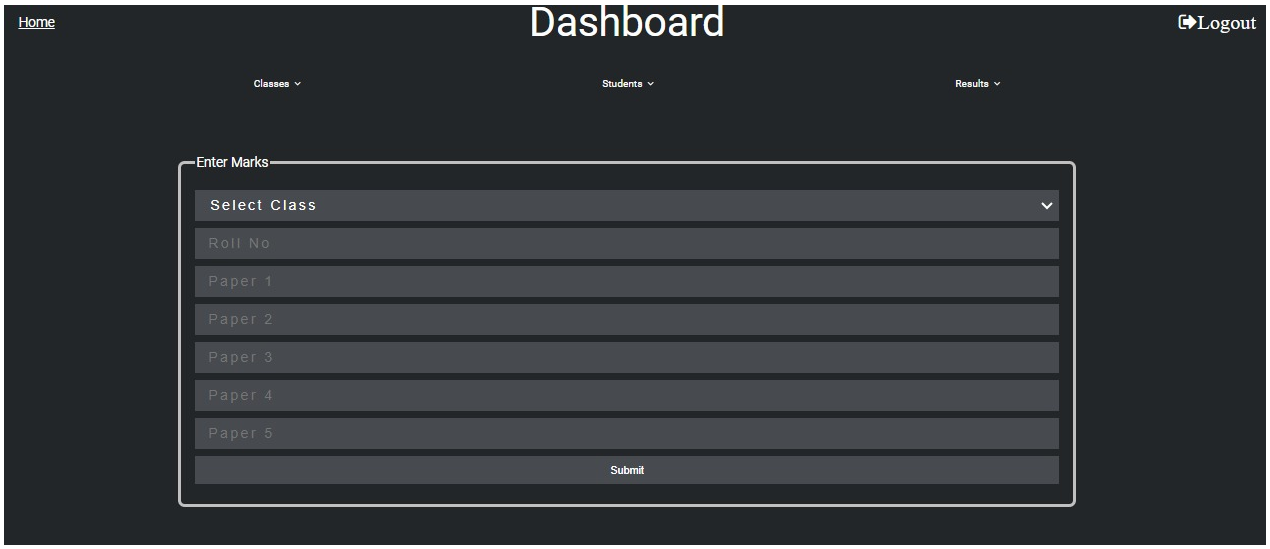
This page is directly viewed to users once they login or signup on this Velammal Website of us. In this AdminLogin, Admin have their own password to get into the page of rendering marks of students or view the student marks.

INPUT:

Add student



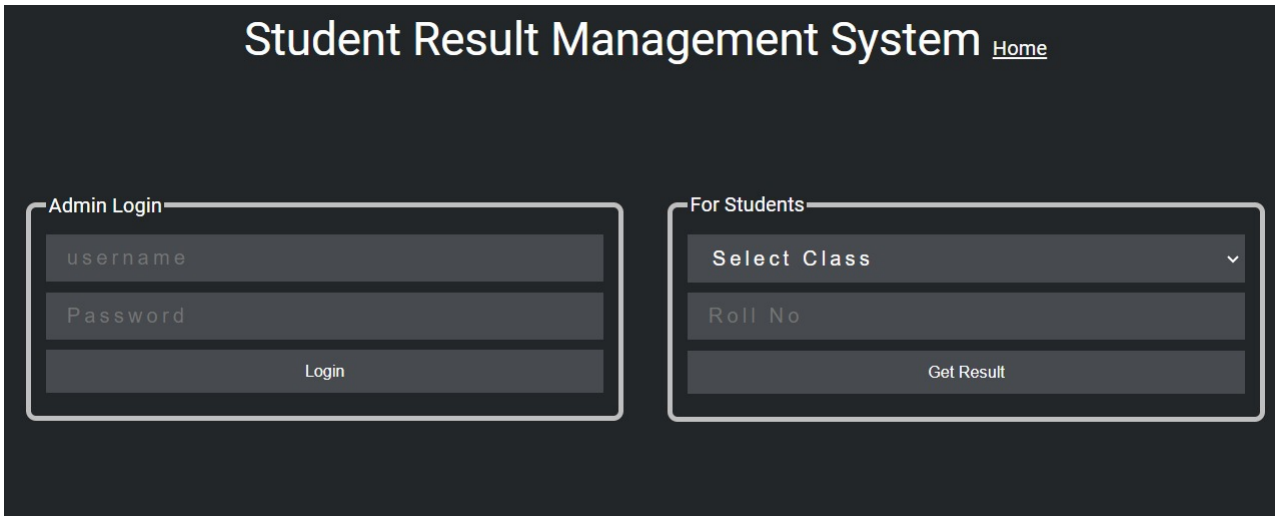
Mark enter page



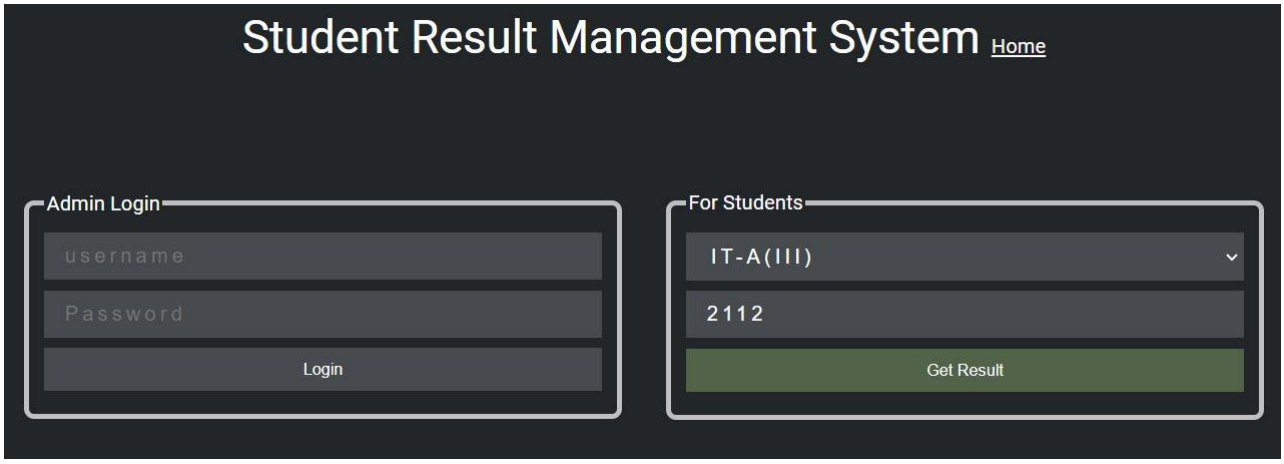
Admin page(login.php)

Admin Login to Render the mark by faculties or Admins.

Students as well as Faculties can view the result of the student in For Student section.



Fetching student details



OUTPUT:

Mark details of the student

Name: Lekha Shri A
Class: IT-A(III)
Roll No: 2112

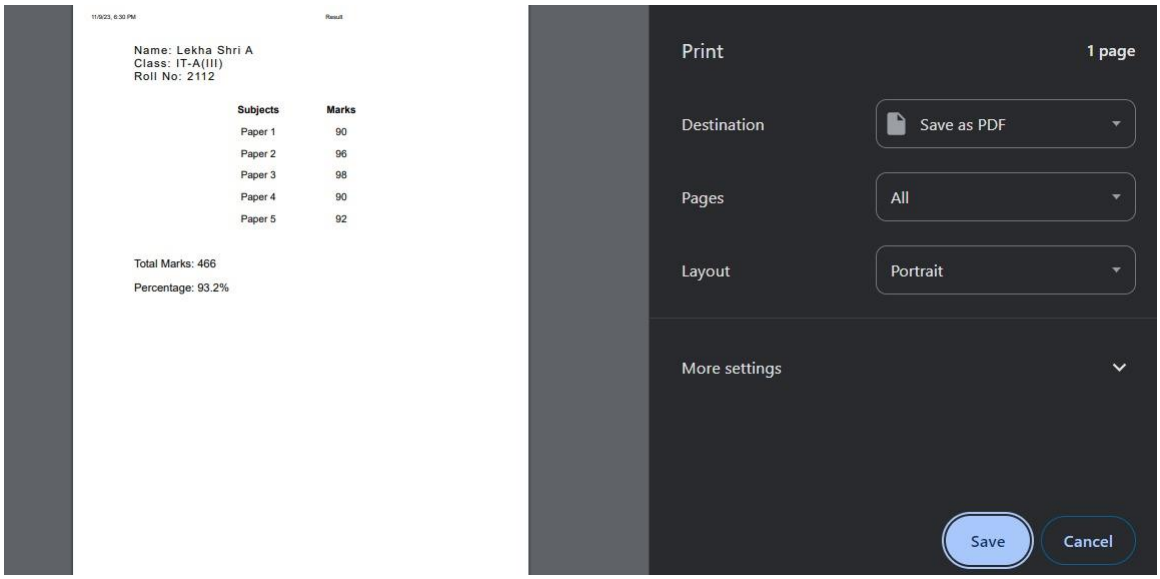
Subjects	Marks
Paper 1	90
Paper 2	96
Paper 3	98
Paper 4	90
Paper 5	92

Total Marks: 466

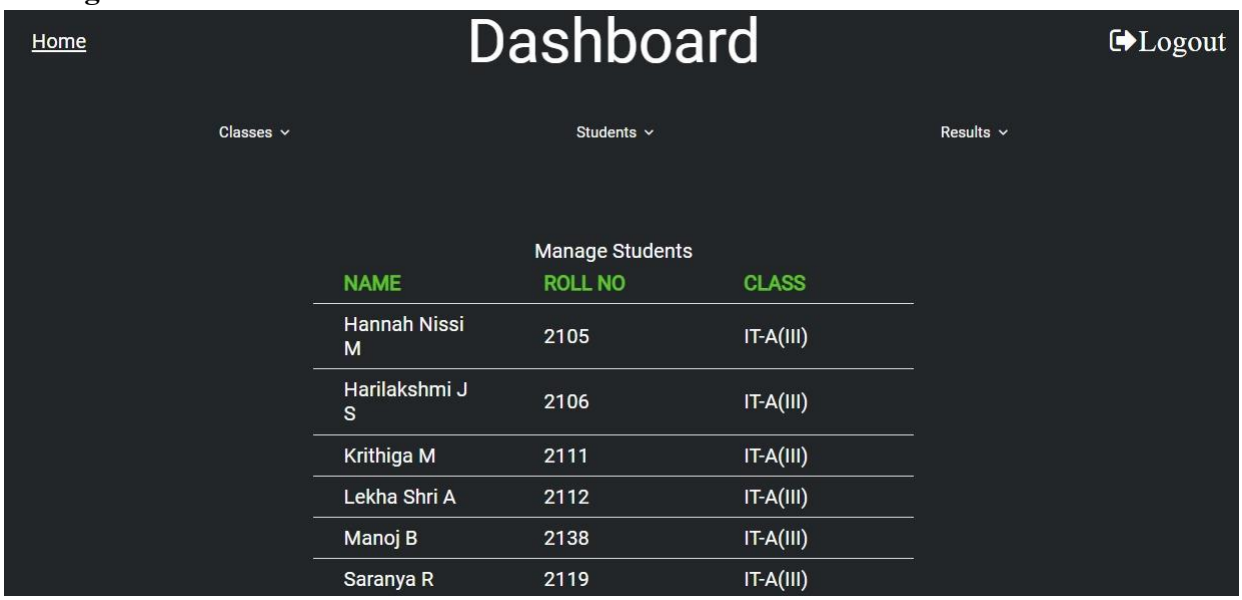
Percentage: 93.2%

Print Result

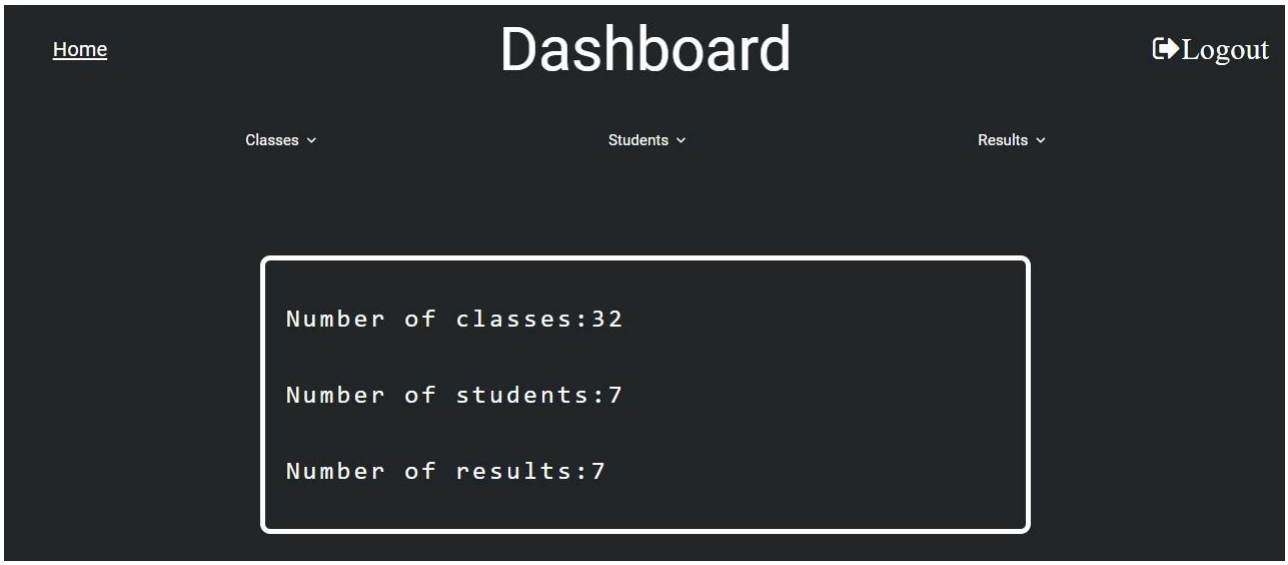
Print pdf



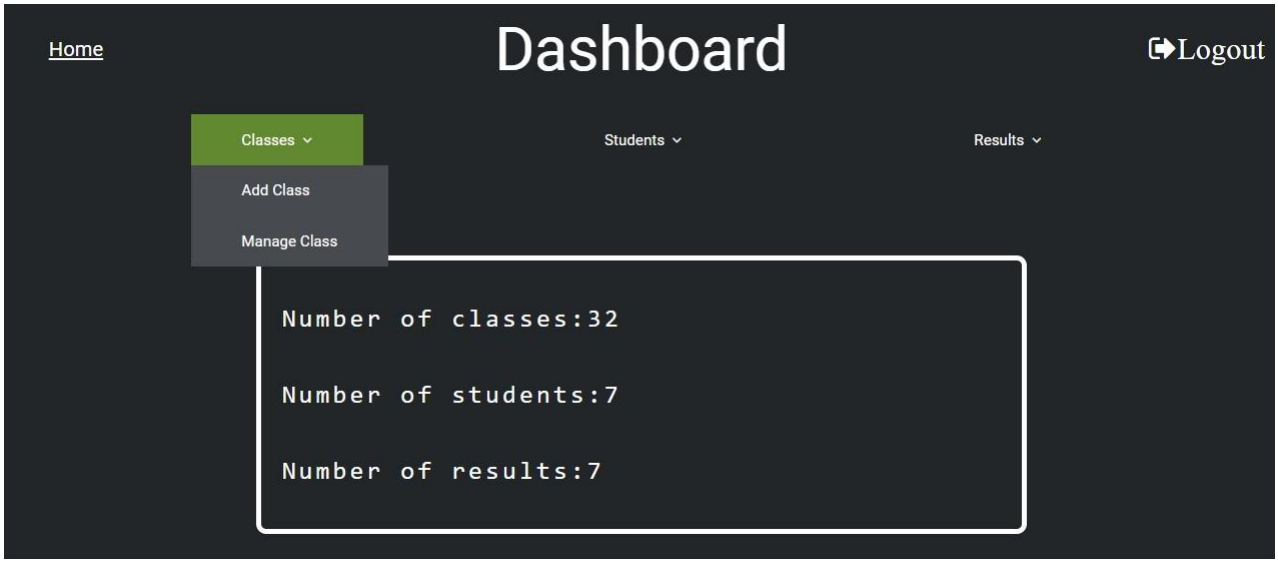
Manage student



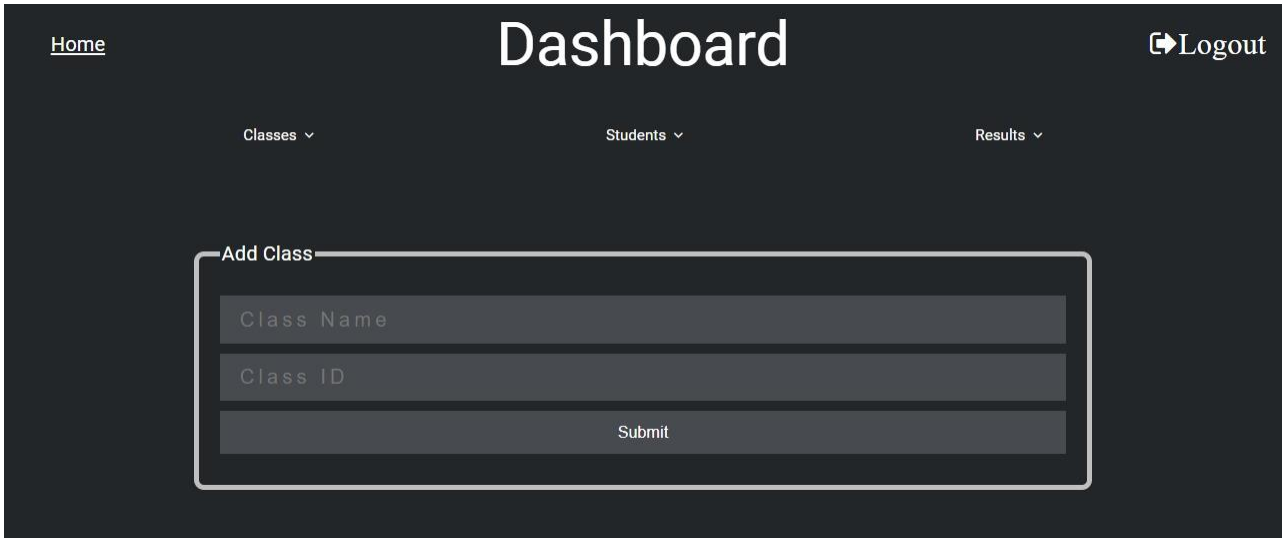
Details



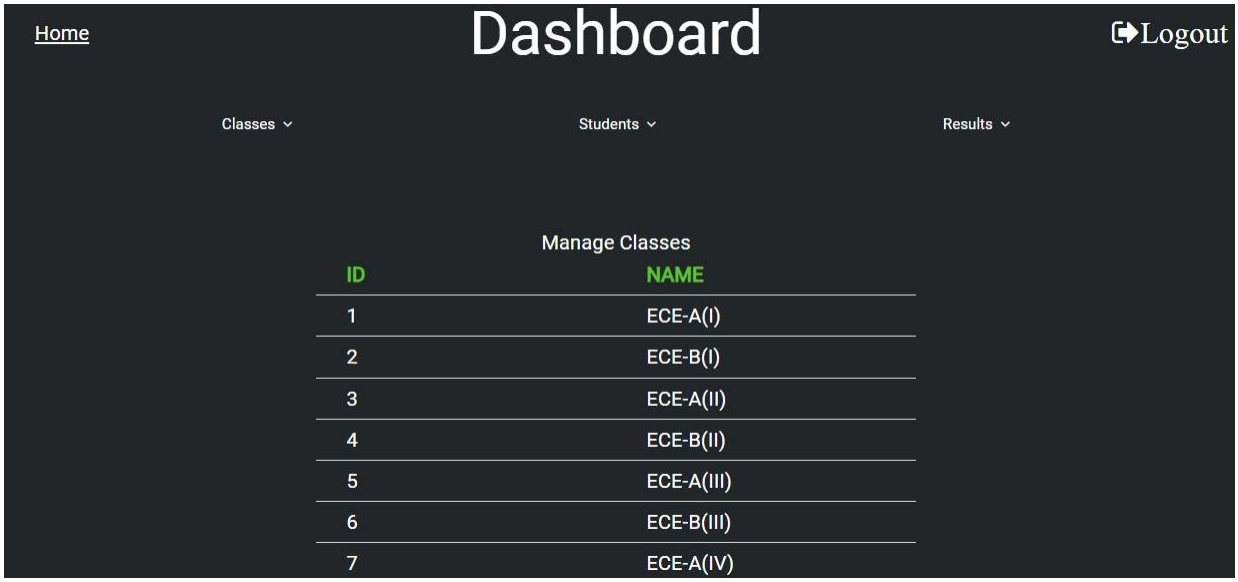
Class page



Add class details



Manage class details page



SAMPLE CODE:

Database connection:

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";
--
-- Database: `srms`
--
-- --------------------------------------------------------
--
-- Table structure for table `admin_login`
--
CREATE TABLE `admin_login` (
  `userid` varchar(30) NOT NULL,
  `password` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 ROW_FORMAT=COMPACT;
--
-- Dumping data for table `admin_login`
--
INSERT INTO `admin_login` (`userid`, `password`) VALUES
('admin', '123');
-- --------------------------------------------------------
--
-- Table structure for table `class`
--
CREATE TABLE `class` (
  `name` varchar(30) NOT NULL,
  `id` int(3) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- --------------------------------------------------------
--
-- Table structure for table `result`
--
CREATE TABLE `result` (
  `name` varchar(30) NOT NULL,
  `rno` int(3) NOT NULL,
  `class` varchar(30) NOT NULL,
  `p1` int(3) NOT NULL,
  `p2` int(3) NOT NULL,
  `p3` int(3) NOT NULL,
  `p4` int(3) NOT NULL,
  `p5` int(3) NOT NULL,
  `marks` int(3) NOT NULL,
  `percentage` float NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- --------------------------------------------------------
```

```
--
-- Table structure for table `students`
--
CREATE TABLE `students` (
  `name` varchar(30) NOT NULL,
  `rno` int(3) NOT NULL,
  `class_name` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
--
-- Indexes for dumped tables
--
--
-- Indexes for table `admin_login`
--
ALTER TABLE `admin_login`
  ADD PRIMARY KEY (`userid`);
--
-- Indexes for table `class`
--
ALTER TABLE `class`
  ADD PRIMARY KEY (`name`),
  ADD UNIQUE KEY `id` (`id`);
--
-- Indexes for table `result`
--
ALTER TABLE `result`
  ADD KEY `class` (`class`),
  ADD KEY `name` (`name`,`rno`);
--
-- Indexes for table `students`
--
ALTER TABLE `students`
  ADD PRIMARY KEY (`name`,`rno`),
  ADD KEY `class_name` (`class_name`);
--
-- Constraints for dumped tables
--
--
-- Constraints for table `result`
--
ALTER TABLE `result`
  ADD CONSTRAINT `result_ibfk_1` FOREIGN KEY (`class`) REFERENCES `class`
(`name`),
  ADD CONSTRAINT `result_ibfk_2` FOREIGN KEY (`name`,`rno`) REFERENCES
`students` (`name`, `rno`);
```

```
--
-- Constraints for table `students`
--
ALTER TABLE `students`
  ADD CONSTRAINT `students_ibfk_1` FOREIGN KEY (`class_name`) REFERENCES
`class` (`name`);
COMMIT;
```

IN DATABASE:

userid	password
admin	123

	name	id
Edit Copy Delete	ECE-A(I)	1
Edit Copy Delete	ECE-B(I)	2
Edit Copy Delete	ECE-A(II)	3
Edit Copy Delete	ECE-B(II)	4
Edit Copy Delete	ECE-A(III)	5
Edit Copy Delete	ECE-B(III)	6
Edit Copy Delete	ECE-A(IV)	7
Edit Copy Delete	ECE-B(IV)	8
Edit Copy Delete	CSE-A(I)	9
Edit Copy Delete	CSE-B(I)	10
Edit Copy Delete	CSE-A(II)	11
Edit Copy Delete	CSE-B(II)	12
Edit Copy Delete	CSE-A(III)	13
Edit Copy Delete	CSE-B(III)	14
Edit Copy Delete	CSE-A(IV)	15
Edit Copy Delete	CSE-B(IV)	16
Edit Copy Delete	IT-A(I)	17
Edit Copy Delete	IT-B(I)	18
Edit Copy Delete	IT-A(II)	19
Edit Copy Delete	IT-B(II)	20
Edit Copy Delete	IT-A(III)	21

Console

name	rno	class	p1	p2	p3	p4	p5	marks	percentage
Saranya R	2119	IT-A(III)	95	90	92	95	90	462	92.4
Krithiga M	2111	IT-A(III)	90	95	92	95	94	466	93.2
Lekha Shri A	2112	IT-A(III)	90	96	98	90	92	466	93.2
Manoj B	2138	IT-A(III)	95	95	92	90	92	464	92.8
Hannah Nissi M	2105	IT-A(III)	90	91	94	95	98	468	93.6
Harilakshmi J S	2106	IT-A(III)	93	95	97	93	95	473	94.6
Vinoth Kannan S	2148	IT-A(III)	90	97	97	91	95	470	94

name	rno	class_name
Hannah Nissi M	2105	IT-A(III)
Harilakshmi J S	2106	IT-A(III)
Krithiga M	2111	IT-A(III)
Lekha Shri A	2112	IT-A(III)
Manoj B	2138	IT-A(III)
Saranya R	2119	IT-A(III)
Vinoth Kannan S	2148	IT-A(III)

CONCLUSION:

In summary, the "Examination Analyzement System" website is designed to offer a comprehensive view of student performance and departmental success. By providing this data, the project aims to motivate and guide students towards achieving higher academic performance and better job prospects. It is a valuable tool for both students and educators to understand and improve educational outcomes.

RESULT:

Thus, the implementation of frond end pages for our project “EXAMINATION ANALYZEMENT SYSTEM” was executed successfully