

COURSE REGISTRATION AND CREDIT CALCULATION SYSTEM

A MINI PROJECT REPORT

Submitted by

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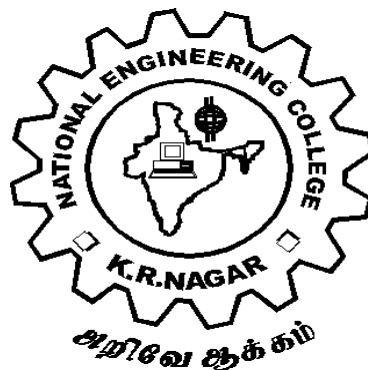
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of

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(An Autonomous Institution, Affiliated to Anna University, Chennai)

K.R. NAGAR, KOVILPATTI - 628 503.

NOVEMBER 2022

BONAFIDE CERTIFICATE



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on.....

INTERNAL EXAMINER

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ABSTRACT

This project is about the course registration website, which helps to know about the courses the students have registered for. Students can register for the courses they want to learn for their respective semesters. Students can also register for their elective courses and non-cgpa courses. Admin can get the information about the courses registered for all semesters in an excel sheet, and they can also view the enrollment history of every student in this software. Admin can check the students' total enrollment history and non-cgpa courses. Admin can also add courses for registration with regulation, making it easier to identify the regulation of the course in enrollment history. Admin can add students along with their batch year, making it easier for admin/staff to check the student's enrollment history only for particular batch students. This will be more useful for the faculty members to calculate the no. of students registered for a specific course. They can also verify the number of particular batches of students registered for a specific course. This will make the admin easy to work on allocating course instructors for the respective courses with the help of the enrollment history of the students. Tutors can check the academic progress of their tutor-ward students. Admin can check the credits earned by each student in all eight semesters. This makes it more accessible for the faculties to verify whether the student has enrolled for the courses with sufficient credits. This software will be more efficient in the credit calculation process.

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LIST OF ABBREVIATIONS

ABBREVIATION	EXPANSION
PHP	Hypertext Preprocessor
PC	Personal Computer
SQL	Structured Query Language
HTML	Hyper Text Markup Language
CSS	Cascading Style Sheet
XML	Extensible Markup Language
JS	JavaScript
OS	Operating System
RDBMS	Relational Database Management System
CGPA	Cumulative Grade Point Average

CHAPTER 1

INTRODUCTION

The online course registration system is a web-based application. Educational institutes or colleges can use it to maintain student records easily. It also provides less time for viewing, adding, editing, updating and deleting the course registered details of the students. The online course registration system will allow online submission of student course registration, student registration, extracting the records as an excel sheet, storing records, and updating student profiles. As the information needed is large, achieving this using a manual process of google forms is difficult. It can be redundant, and collecting relevant information may be tedious and time-consuming.

The Online Course Registration System consists of an enhanced Student module for Course Registration, My Profile, View enrolls history, and Change Password. This project provides facilities like online course registration, credits registered details and enrollment history of the students for reducing paperwork and automating the course enrollment process in an educational institution. Online Course Registration system is used for viewing the enrollment list of students, storing enrollment results, manage students. This Course Registration System will store all the details of the students, including their academic details like credits registered and all the information related to their course registration process.

The main objective of this project is to make students register for their respective courses and extract the enrollment history of the students in excel format to reduce the workload of the faculty members from a manual procedure.

1.1 System Specifications

1.1.1 Requirements

WampServer

WampServer is an application which consists of the Apache web server, MySQL database and PHP programming language. It is a windows web development environment that allows the creation of a website with an apache server, MySQL database and PHP.

Apache

Apache is software that is used to serve web applications. It delivers web content through the Internet. It is the most used server, one of the most popular web servers worldwide.

MySQL in Wampserver

MySQL is an open-source relational database management system. It is used to store information in a table in the database, and it associates with keys like primary key, foreign key etc.

PHP in Wampserver

PHP is known as hypertext preprocessor, a scripting language used to develop dynamic websites. It was a server-side language that could be embedded into HTML, making it easier to provide new functionality to web pages without needing to call external files for data.

Browser

A web browser is needed to open the website and to create a database in wamp servers such as a chrome browser or server.

HTML

The Hyper Text Markup Language or HTML is the standard markup language for document design which will be displayed in browsers. It can be done properly by the help of Cascading Style Sheets and scripting languages like JavaScript.

CSS

Cascading Style Sheet is a style sheet which is used for describing the presentation of a document in HTML or XML. CSS is used for the decoration purpose of the webpage we can add color and size for all the elements used in a web page design.

PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

MySQL

MySQL is an open-source relational database management system. It is used to store the information in the tables inside a database and it connects with the keys like primary key, foreign key etc.

JavaScript

JavaScript is also called as JS, is a programming language that is one of the important technologies of the World Wide Web, along with HTML and CSS. It is used to create dynamic web content to make application or browsers.

1.1.2 Non- functional requirements:

The non-functional requirements of the course registration system are listed below:

1. The course registration system should have a user-friendly interface which is easy to use.
2. Inputs that require authentication should be handled appropriately.
3. It should provide relief to users from the old system.
4. The course registration system should be compatible with windows, mac or Linux.

CHAPTER 2

LITERATURE SURVEY

Yu Peng proposed that the web course registration system is the central part of the educational administration system, which consists of registration controlling, undergraduate course registration, graduate course registration, retaking and retesting, dropping the course within the middle phase, etc. By registering the course voluntarily, the new system improved the registration mechanism, implemented course registration of standard classes for undergraduate and graduate students, and supported teaching activities across spring, summer, and fall semesters [1]. Abzetdin Adamov presented that U.M.I.S. design and development is a complex and lengthy process that involves many areas of computer engineering and science. The main emphasis has been made on database design practice which is the primary aspect of the project's success [2].

Adigun Abimbola implemented the Mobile Application-Based Course Registration Platform (M.A.B.C.R.P.) to facilitate the method of students' course registration within a University system. This was intended to function as an alternative to the web-based and online course registration system currently being used by most universities. This wants to bring course registration closer to scholars who are vastly great users of mobile devices [3]. The amount of students joining both undergraduate and graduate studies is increasing fast through most universities. Manual registration leads to crowding a vast number of students inside the registration halls. Registration employees are suffering plenty. Accessing online through the Internet becomes a prolonged and tedious process. Maged Fahmy introduced automated student course registration using computer-telephony integration [4].

V. karpagam designed this Application for an alternate process of a web-based application for an online course registration system. This Application helps us to bring the course registration system closer to scholars who are great users of mobile devices [5]. The college student course registration process involves filling out registration forms manually, getting them signed by respective subject teachers, and then getting

the documents acknowledged by the concerned Advisors, College Deans, and Accounts Officers, respectively. Finally, the registration forms are submitted to the Administrative Branch. As is evident, this process is highly laborious and time-consuming. Rattan Singh developed the Online Student Course Registration System has been developed to simplify the current manual procedure [6].

YousifAl-Bastaki described and implemented a WAP-based course registration system. The framework will support many opportunities for applying WAP-based technology to several services, such as wireless commerce, cashless payment, and location-based services [7]. Ruben Estevez presented web-based course registration systems to look for, select and register for courses. During this project, the authors assessed the usability of a web-based course registration system, proposed an improved model for such systems, and evaluated the model [8].

Course registration would be more tedious for the FCFS-based registration as it involves opting for multiple course instructors offering various courses. Parthiban K developed a Service Oriented Architecture by integrating the curriculum, Instructor management, and timetable management and delivering a highly available, reliable online course registration platform for scholars [9]. Anju Padia presented a university management registration system that empowers colleges and educators to manage regular tasks such as campaigns, student enrolment, admissions, course registration, etc. Registering for courses while taking admission to a university is the most crucial step as it lays the foundation for an entire semester. This technique can be an integrative tool for many colleges and can be modified according to a college's requirements. This technique is much quicker and more efficient [10].

Mr. Pharaoh Chaka described that web-based services offer users convenient access and, therefore, the ability to manipulate information that concerns such services. The appliance will allow students, department members, faculty members, and, consequently, the registry members to view and make changes to course registration-related issues for a specific semester. The system will be developed using a Service-Oriented Architecture (S.O.A.), which involves grouping components into web

services [11]. Richard K. Bemile presented the research and findings of a student registration system. It has been discovered that students must be physically present on their campuses to register for the semester after paying fees. With the varied alternatives in technological choices, this research sought out which option would help eliminate the current difficulties students go through to register for the semester. This paper analyzed this existing system using the waterfall model, leading to a design and development of an online registration system that does not require the physical presence of students on campus but to register remotely [12].

Rajab Philip Muchiri described that the quantity of students joining universities is increasing fast, congesting existing registration systems. Online registration with student web portals common in many learning institutions was adapted to unravel this problem. Online registration alleviated a variety of these problems. However, it is only partially eradicated the problem. Long queues and delays are still experienced during registration exercises. Accessing the web through the Internet becomes a slow and tedious process [13]. Yinh Liu proposed the Student Registration System for Universities (S.R.S.U.) is to do the statistics on the student's basic information, registration information, and payment information and provides the results of the analysis. The subject's background is analyzed in the paper first, and thus the technologies used in the development are introduced [14]. Swapnali Avhad proposed developing a college student information system to manage college management. This Application contains robust data and has a straightforward interface. The foremost objective of this Application is to reduce the paperwork and time used for manual processing. An Education system in India has become so advanced because of the development of technology. This Application will help the institute to manoeuvre forward quickly, fulfil its vision and attain its goals [15].

CHAPTER 3

PROPOSED METHODOLOGY

The proposed course registration system is a 3-tier web-based client/server Architecture in which the user interface, system data storage, and system data access are developed and maintained as independent modules, most often in different platforms, shown in fig 3.1.

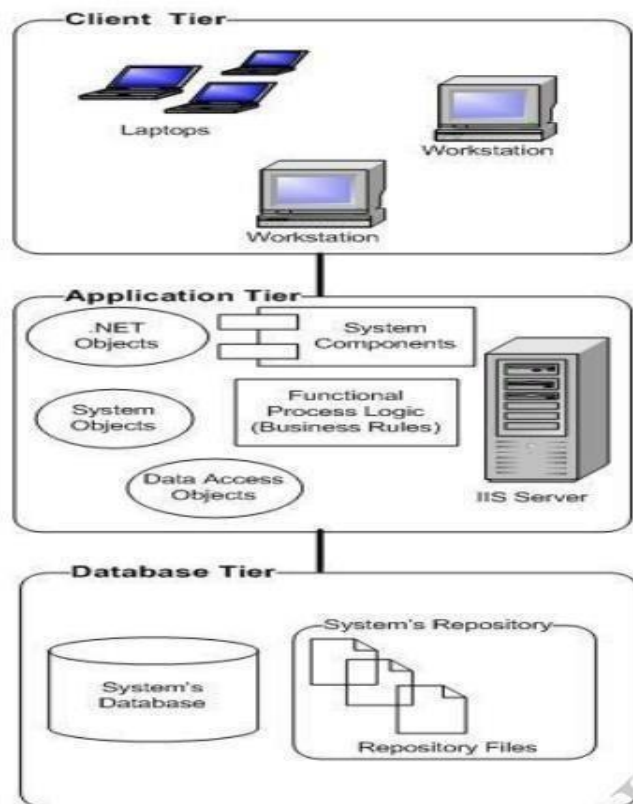


Fig 3 .1 3-tier architecture

3.1 Client Layer

The client must have a P.C., preferably running Windows as an operating system, with Internet Explorer, which enables users to browse the website over the Internet. The code was made using Mozilla Firefox, so it works very well. It is a web-based application; all processing is done on behalf of the users' computers on the server hosting the system. Other operating systems, such as Linux, Mac OS, etc., might be acceptable as client machines.

3.2 Application Layer

The application layer consists of the user interface, business rules and data access component. All accessing data code and business rules implementation are developed using PHP. Code is written in files, each containing one or more classes to handle the functionality of web forms designed using PHP.

3.3 Database layer

The database of the proposed system is implemented using the MySQL server. This layer provides high connectivity and availability and allows system developers to easily administer and manage their databases using its Management Studio graphical user interface. In addition to allowing developers to create their stored procedures or use built-in systems.

Using MySQL Server as a full-resolution relational database management system allows the user to create server-side cursors to work through different table records and manipulate them sequentially programmatically. During development, developers may need to process the resulting documents on the server without using another programming language, i.e. through the built-in functionality of the RDBMS. Remember to use triggers.

To perform operations on data during insertion, deletion or update. All the previously mentioned features make MySQL Server an excellent environment to host a computer's database.

3.4 System Architecture:

The architecture comprises various modules, as given in Fig 3.2. The three major categories in this system are admin, tutor and student. Admin's role is to create students and tutor and manage them. Management, developing courses, checking to enroll history with credit details, and reviewing student logs. The tutor's module consists of assigning students,

checking their students' enrollment history, and updating profiles. Students' modules include registering for courses, requesting to re-register, and updating their profiles. The three tiers comprise the presentation, application logic, and data layers.

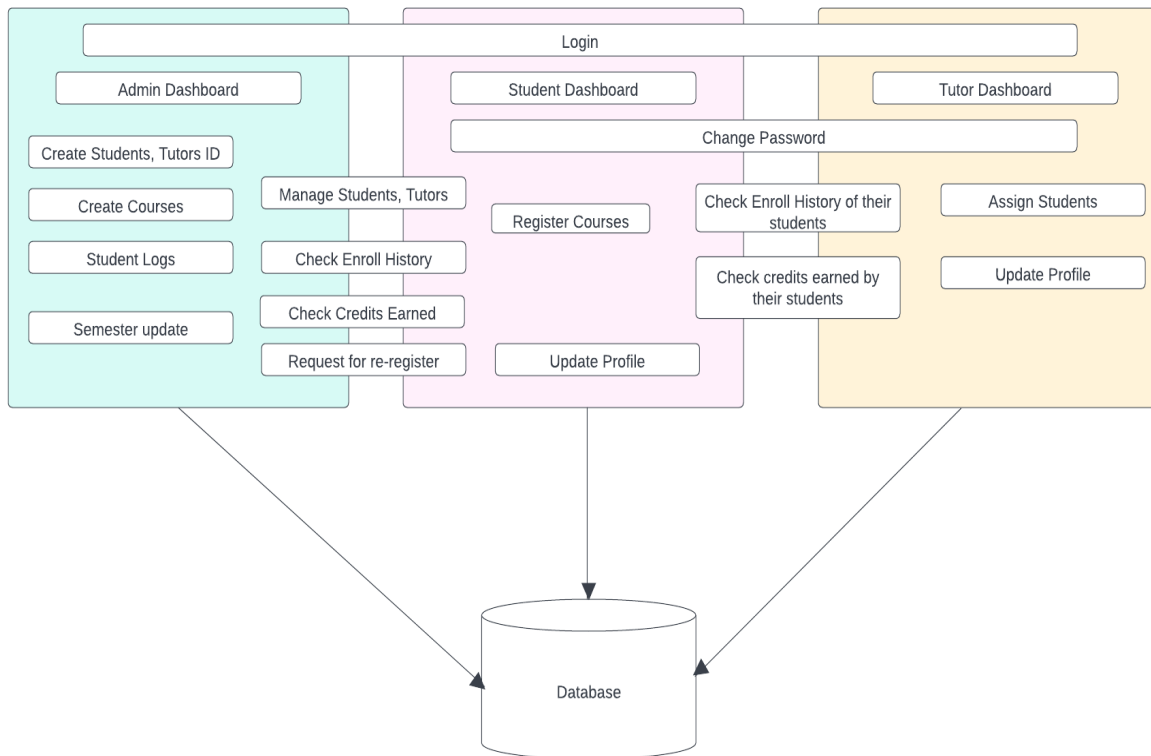


Fig 3.2 System Architecture

3.5 System Flow Chart:

Students can enroll for their respective courses, view their enroll history, check, update profile and change their password which is shown the below fig 3.3.

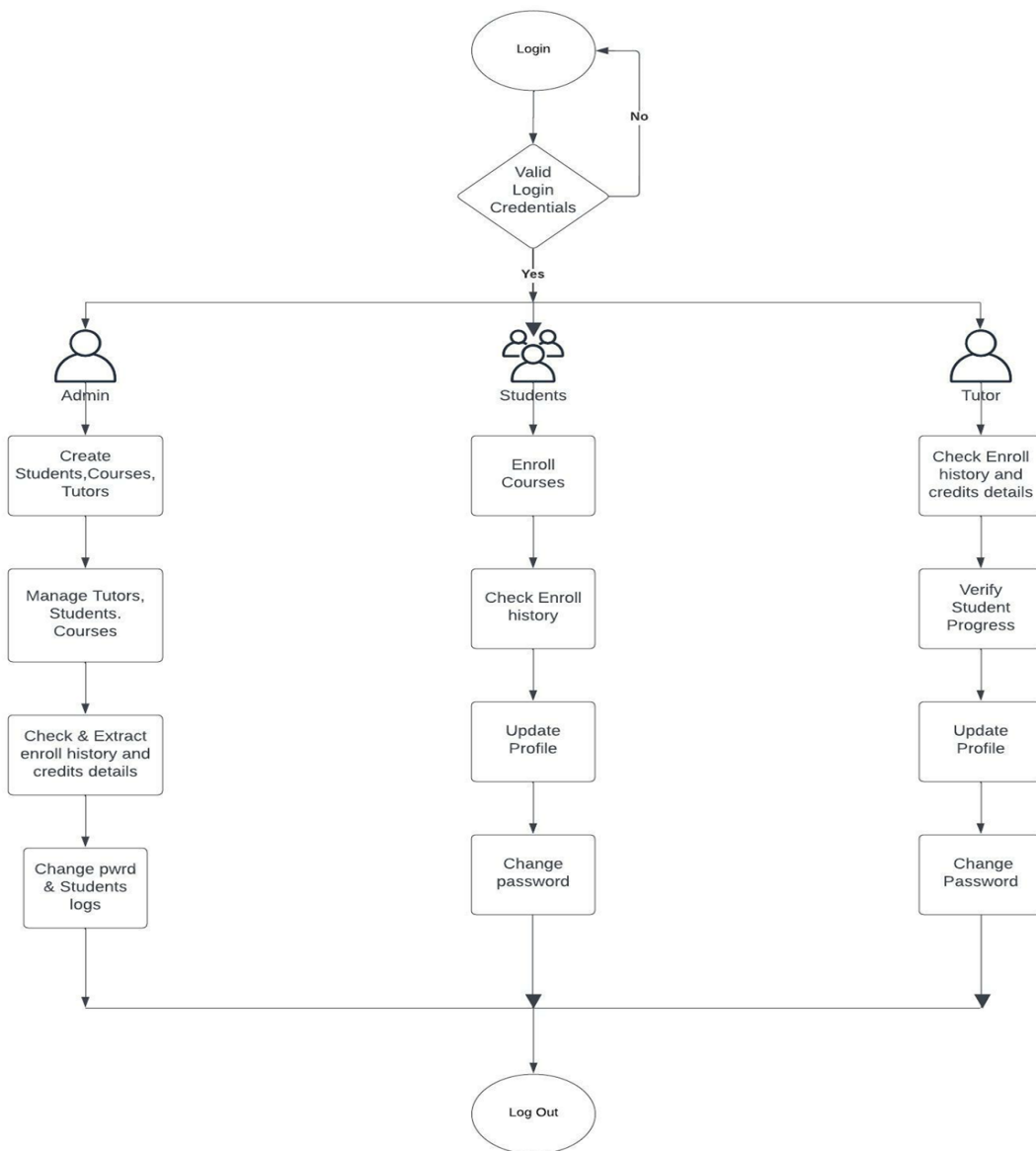


Fig 3.3 System Flow Chart

3.6 Inputs

The following are needed as input within the system

1. Student Registration Number and Password.
2. Student details including name, registration number, year of study and all other student details required for registration.
3. Admin login consists of admin username and password.
4. Tutor login consists of tutor username and password.

3.7 Processes

The system will carry out the following processes:

- Storing student details, Course details, semester details and department details in database.
- Retrieves enrollment history and credit details from the database.

3.8 Output

1. Display relevant details to the courses registered by the students.
2. Extracting the enroll history with credit details of the courses registered by the students in an excel format.

3.9 Modules

Following are the main module of online course registration system.

Student module

Student Module consists of a course registration page, my profile page, a change password page and checks to enroll history page. This module help student with course registration.

Admin Module

This module consists of add semester page, add course page, add department page, add semester page, add student page, manage student page, change Password, page for admin and enroll history verification page. This

module will be helpful for the admin to check the enrollment history of the students.

Tutor Module

The tutors can assign their tutor ward students. They can also check enrollment history with the credit details of their ward students.

3.10 Student module

Student Module consists of course registration page, my profile page, changepassword page and check enroll history page. This module help student for course registration.

Course register page

All students can register their respective courses for which they are going to learn in the upcoming semesters. They can select and register the courses available in that page. It will be displayed according to semester the students currently studying.

My profile page

In my profile page, every student can be able to update their profile. In this page student's details are displayed such as student name, student register number and student photo. If there is any changes in future they can update their student name and student photo.

Change password page

In this change password page, student can be able to change their password. They can change it whenever they want.

Check enroll history

In this enroll history page, students can check their previously enrolled courses list. This page shows the enrolled course details of the student such as the course name, credit value of the courses, department to which the course belong to, semester name to which the course to enrolled and enrolment date of the course which is the date and time at which the course is enrolled by the student.

3.11 Admin Module

This module consists of add semester page, add course page, add

department page, add semester page, add student page, manage student page, change password page for admin and enroll history verification page.

Change password page

In this change password page, admin can be able to change their password. They can change it whenever they want.

Add semester page

In this semester page, admin can add semesters. There will be an action column in the displayed table which has a delete button with the semester details. Admin can use that button to delete a semester which is created already.

Add department page

In this department page, admin can add departments. There will be a text field to add department. There will be an action column in the displayed table which has a delete button with the department details. Admin can use that button to delete a department which is created already.

Add courses page

In this add course page, admin can add the courses for which the students have to register. Here admin can enter all the courses details along with seat limit.

Student registration page

This page is used to add new students into the database which is used to create a new student login.

Tutor registration page

This page is used to add new students into the database which is used to create a new tutor login.

Manage students page

This page is used to manage the student details to update and delete it.

Delete button is used to delete the student id from the database. Reset password button is used to reset the password of the student if the student forgot his/her current password.

Enroll History and credits page

This page is used to check the enroll history of the students. Here the admin can view the enrollment history of the student along with the credits details.

User log page

In this page the student login related information is displayed. This page consists of a table of student login details such as student register number, login time and log out time. These details will be useful for admin to check who are all using this platform and to know who have completed the course registration work on the given time period.

3.12 Tutor Module

Enroll History and Credits Page

This page is used to check the enroll history of the students. Here the tutor can view the enrollment history of their tutor ward students along with the credits details.

Change password page

In this change password page, tutor can be able to change their password. They can change it whenever they want.

My Profile page

In my profile page, every tutor can be able to update their profile. In this page tutor's details are displayed such as tutor name, tutor register number and tutor photo. If there is any changes in future they can update their tutor name and tutor photo.

Assign Students

In this page, tutors can assign the students for them who are belonging to his/her tutor ward. They can enter the required student details which are asked in the assign students page and they can assign the students belong to his/her tutor ward.

CHAPTER 4

RESULT AND ANALYSIS

4.1 EXPERIMENTAL SETUP

Enroll history page

This page is used to check the enroll history of the students. This page consists of some buttons which are used to know the enroll history and credits details of the students which is shown in the fig 4.1 and the verified enroll history of a particular student is shown in fig 4.2.

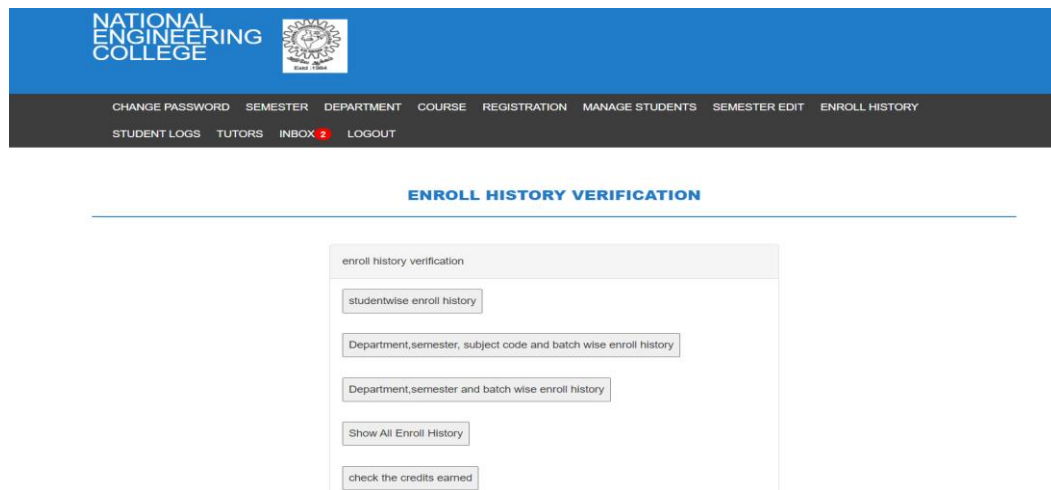
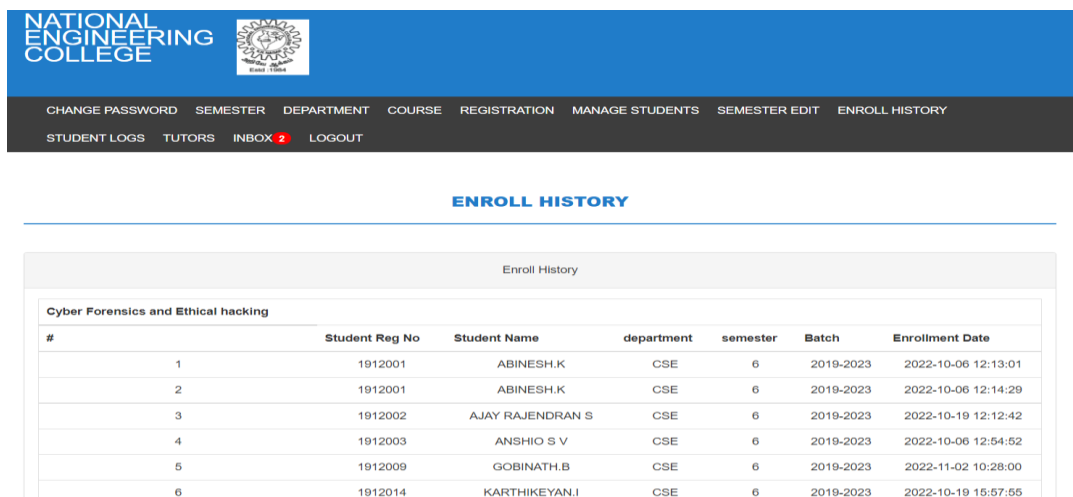


Fig 4.1 enroll history verification page

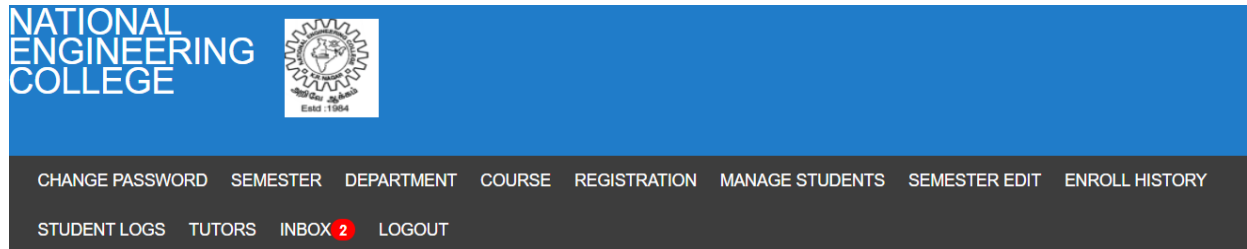


Enroll History						
Cyber Forensics and Ethical hacking						
#	Student Reg No	Student Name	department	semester	Batch	Enrollment Date
1	1912001	ABINESH.K	CSE	6	2019-2023	2022-10-06 12:13:01
2	1912001	ABINESH.K	CSE	6	2019-2023	2022-10-06 12:14:29
3	1912002	AJAY RAJENDRAN S	CSE	6	2019-2023	2022-10-19 12:12:42
4	1912003	ANSHIO S V	CSE	6	2019-2023	2022-10-06 12:54:52
5	1912009	GOBINATH.B	CSE	6	2019-2023	2022-11-02 10:28:00
6	1912014	KARTHIKEYAN.I	CSE	6	2019-2023	2022-10-19 15:57:55

Fig 4.2 after verification enroll history is displayed

Student registration page

This page is used to add new students into the database which is used to create a new student login which is shown in fig 4.3.



STUDENT REGISTRATION

Student Registration

Student Name

Student Name

Student Reg No

Student Reg no

Password

Enter password

Department

Fig 4.3 student registration page

Add course page

In this add course page, admin can add the courses for which the students have to register. This consists of all the courses details to be needed to store it in the database which is shown in fig 4.4.

[CHANGE PASSWORD](#) [SEMESTER](#) [DEPARTMENT](#) [COURSE](#) [REGISTRATION](#) [MANAGE STUDENTS](#) [SEMESTER EDIT](#) [ENROLL HISTORY](#)

[STUDENT LOGS](#) [TUTORS](#) [INBOX 2](#) [LOGOUT](#)

COURSE

Course

Course Code

Course Name

Type

Department Name

Semester

Fig 4.4 add course page

Change password page

In this change password page, admin can be able to change their password. There will be three text fields which shown in fig 4.5.

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CHANGE PASSWORD SEMESTER DEPARTMENT COURSE REGISTRATION MANAGE STUDENTS ENROLL HISTORY STUDENT LOGS LOGOUT

ADMIN CHANGE PASSWORD

Change Password

Current Password

Password

New Password

Password

Confirm Password

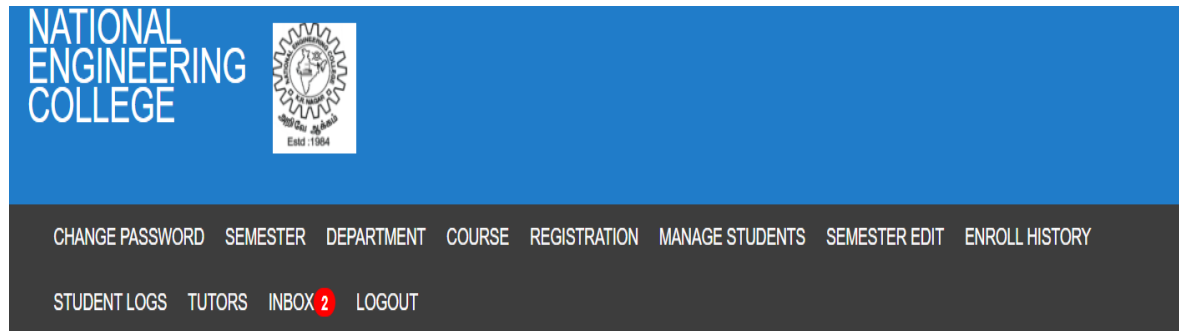
Password

Submit

Fig 4.5 change password page

Add semester page

In this semester page, admin can add semesters. There will be a text field to add semester shown in fig 4.6.



SEMESTER

Semester

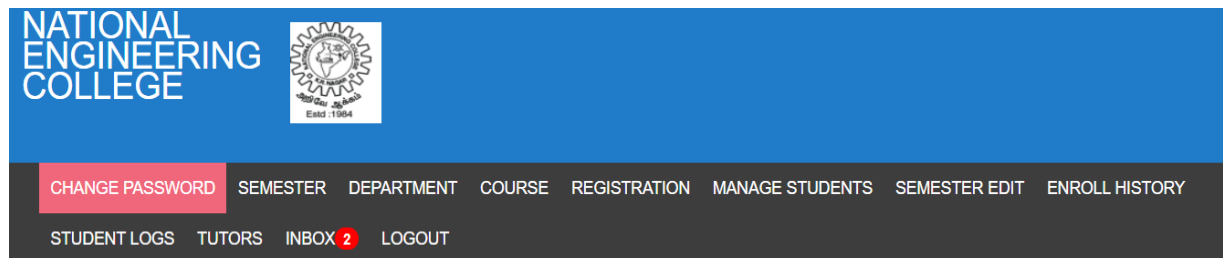
Add Semester

Submit

Fig 4.6 add semester page

Add department page

In this department page, admin can add departments. There will be a text field to add department is shown fig 4.7.



DEPARTMENT

Department


Add Department

Fig 4.7 add department page

Manage students page

This page is used to manage the student details to update and delete it. This page has a table which consists of student register number, student name, registration date in which a particular student id is created and an action column is shown in fig 4.8.

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CHANGE PASSWORD SEMESTER DEPARTMENT COURSE REGISTRATION MANAGE STUDENTS SEMESTER EDIT ENROLL HISTORY

STUDENT LOGS TUTORS INBOX 2 LOGOUT

STUDENTS

Manage students

#	Reg No	Student Name	Reg Date	Action
1	1912001	ABINESH.K	2022-08-08 22:57:54	<div>Delete</div> <div>Reset Password</div>
2	1912002	AJAY RAJENDRAN S	2022-08-08 22:58:37	<div>Delete</div> <div>Reset Password</div>
3	1912003	ANSHIO S V	2022-08-08 22:59:21	<div>Delete</div> <div>Reset Password</div>
4	1912004	BENAZIR.M	2022-08-08 22:59:54	<div>Delete</div> <div>Reset Password</div>
5	1912005	BHUVANESWARI.M	2022-08-08 23:00:35	<div>Delete</div> <div>Reset Password</div>

Fig 4.8 manage students page

User log page

In this page the student login related information is displayed. This page consists of a table of student login details such as student register number, login time and log out time is shown in fig 4.9.


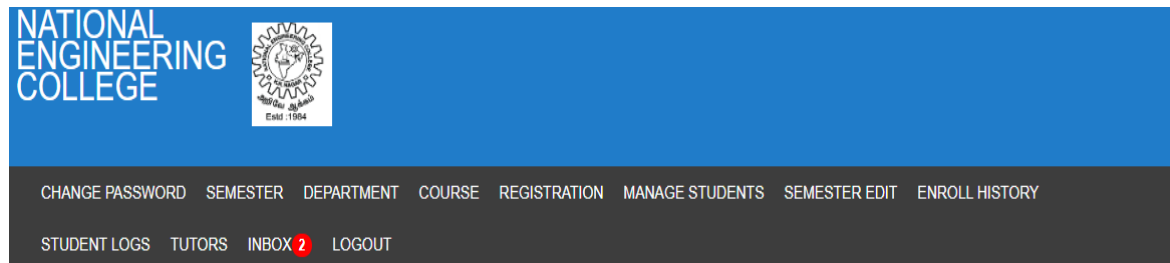
NATIONAL ENGINEERING COLLEGE					
					
CHANGE PASSWORD SEMESTER DEPARTMENT COURSE REGISTRATION MANAGE STUDENTS SEMESTER EDIT ENROLL HISTORY					
STUDENT LOGS TUTORS INBOX 2 LOGOUT					
USER LOG					
User Log					
#	Student Reg no	IP	Login Time	Logout Time	Status
1	1912037	::1	2022-03-07 19:14:35	07-03-2022 07:18:46 PM	1
2	1912037	::1	2022-03-07 19:19:01	07-03-2022 07:52:31 PM	1
3	1912037	::1	2022-03-07 22:02:11		1
4	1912037	::1	2022-03-08 11:37:25		1
5	1912037	::1	2022-03-08 13:38:26	08-03-2022 01:41:10 PM	1
6	1912037	::1	2022-03-08 13:41:19	08-03-2022 01:49:51 PM	1
7	1912037	::1	2022-03-09 19:18:31		1

Fig 4.9 student login info page


Inbox Page

This page consists of the requests by the students for re-registering the courses. It is shown in fig 4.10



ADMIN CHANGE PASSWORD

Notification

 PRASANNA KUMAR A:
request for re-registering course by PRASANNA KUMAR A


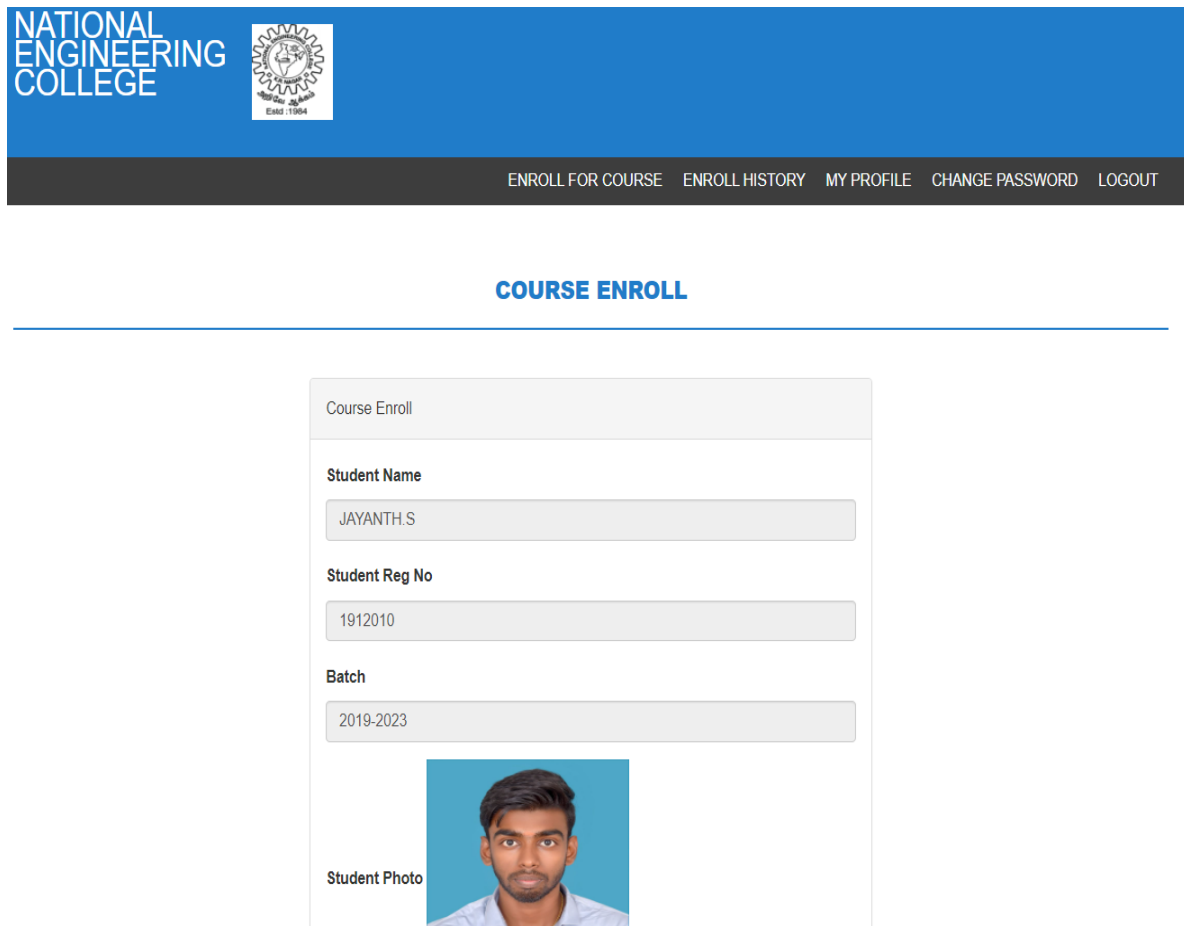
 RAMKUMAR M:
request for re-registering course by RAMKUMAR M

Fig 4.10 Inbox page

Course register page

All students can register their respective courses for which they are going to learn in the upcoming semesters is shown in fig 4.11.

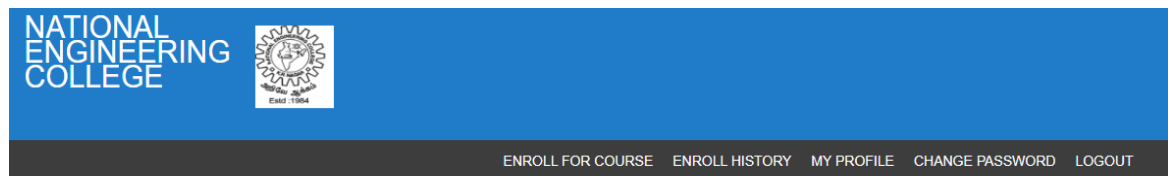


The screenshot shows the 'COURSE ENROLL' page of the National Engineering College website. The header is blue with the college's name and logo on the left, and a navigation bar on the right with links: ENROLL FOR COURSE, ENROLL HISTORY, MY PROFILE, CHANGE PASSWORD, and LOGOUT. Below the header, the page title 'COURSE ENROLL' is centered. The main content area contains a form titled 'Course Enroll' with the following fields: 'Student Name' (JAYANTH.S), 'Student Reg No' (1912010), and 'Batch' (2019-2023). Below these fields is a 'Student Photo' section showing a portrait of a man with dark hair and a beard, wearing a light blue shirt, against a blue background.

Fig 4.11 Course registration page

My profile page

In my profile page, every student can be able to update their profile. In this page student's details are displayed such as student name, student register number and student photo which is shown in fig 4.12.



STUDENT- MY PROFILE

Update Profile


Student Name

JAYANTH.S

Student Reg No

1912010

Student Photo



Upload New Photo

Choose File

No file chosen

Fig 4.12 My profile Page

The results obtained from the survey were as follows for the questionnaires are shown in fig 4.13 and fig 4.14.

1.

Does online registration improve the registration process efficiency
26 responses



Fig 4.13 survey result that shows 100% of the users agreed.

2.

which one is effective for course registration ?
26 responses

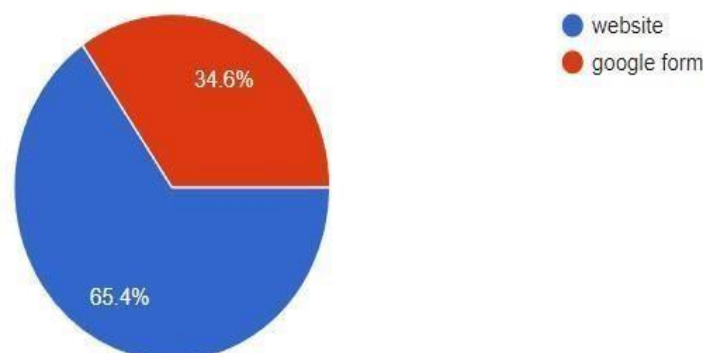


Fig 4.14 survey result that shows 65% of users need website for course registration

CHAPTER 5

CONCLUSION AND FUTURE WORK

5.1 Conclusion

The Online Course Registration and Credit Calculation System will be improving the overall performance of the university as it will provide the enrollment details of the students with their academic details. Online course registration not only helps students to reduce their time but also helps university authorities to improve their operations based on up-to-date records that can generate customized reports. This will bring a positive change in the organization and save a lot of resources.

5.2 Future work

Our future works in this online course registration system may be provide an option to import excel sheet for student registration. We can add a module for open electives viewing options for admin and students. Create an option for admin to view the overall academic progress of a student.

EXPECTED OUTCOME PROOF

Date: 2022-11-24 21:33:50
To: "RAM PRAVEEN" 1912037@nec.edu.in
From: "JCST" jcs2018@rsu.ac.th
Subject: Submission Confirmation for COURSE REGISTRATION AND CREDIT CALCULATION SYSTEM

Dear PRAVEEN,

Your submission entitled "COURSE REGISTRATION AND CREDIT CALCULATION SYSTEM" has been received by journal Journal of Current Science and Technology

You will be able to check on the progress of your paper by logging on to Editorial Manager as an author. The URL is <https://www.editorialmanager.com/jcsat/>.

Your manuscript will be given a reference number once an Editor has been assigned.

Thank you for submitting your work to this journal.

Kind regards,

Journal of Current Science and Technology

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/jcsat/login.asp?a=r>). Please contact the publication office if you have any questions.

APPENDICES

GRAMMARLY CHECK REPORT



Report: Course Registration and Credit Calculation System Mini Project Report

Course Registration and Credit Calculation System Mini Project Report

by cse staff

General metrics

35,226	5,487	587	21 min 56 sec	42 min 12 sec
characters	words	sentences	reading time	speaking time

Score

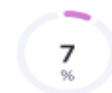


This text scores better than 96% of all texts checked by Grammarly

Writing Issues

122	46	76
Issues left	Critical	Advanced

Plagiarism



21
sources

7% of your text matches 21 sources on the web or in archives of academic publications

Report was generated on Friday, Nov 25, 2022, 12:13 PM

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