



ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANIZATION OF ISLAMIC
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Gazipur-1704, Dhaka, Bangladesh



CSE Automation System

(E-Learning Web Application)

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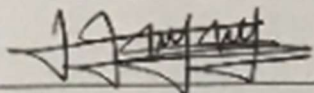
Gazipur-1704, Dhaka, Bangladesh

March-2021

CERTIFICATION

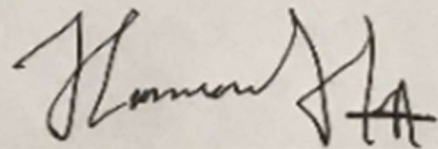
This is to certify that “**CSE Automation System**” is the outcome of hard work of **Abdel Karim Mounkambou** and **Hayatou Amadou** as their final year project of Bachelor of Science in Technical Education (BScTE) in computer science and engineering at the Islamic university of technology (IUT) Dhaka, Bangladesh.

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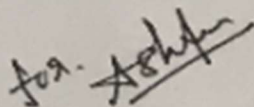
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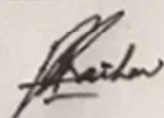
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Abstract

The COVID-19 pandemic has affected educational systems worldwide, leading to the near-total closures of schools, universities and colleges. Most governments decided to temporarily close educational institutions in an attempt to reduce the spread of COVID-19. As of 12 January 2021, approximately 825 million learners are currently affected due to school closures in response to the pandemic. According to UNICEF monitoring, 23 countries are currently implementing nationwide closures and 40 are implementing local closures, impacting about 47% of the world's student population. Based on these facts we intended to provide a web platform on which teachers and students can interact without a risk to attract COVID-19.

We used a model view controller (MVC) architecture and various web technologies such as html, CSS and JavaScript for front-end, and php for back-end using Laravel framework. The use of this platform can make significant contribution in helping, students to engage, to plan, execute, and assess a specific learning process.

DEDICATION

This project is wholeheartedly dedicated to our beloved parents, who have spared effort to ensure our success, and have been continually providing us their moral, spiritual and financial support.

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Chapter 1 – Introduction

1-1 Overview

A learning management system is a software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs. The learning management system concept emerged directly from e-Learning. The main objective of the LMS is to host and track online learning. Providing a virtual hub where learners can access training resources, an LMS aims to make training accessible for remote learners and provide a central location for training across an institution or organization. CSE Automation System consists of different modules such as student, faculty, admin etc. Where our main purpose is to create a software, which will manage the working of these different modules.

In the following lines we will try to explain the architectures, various components, and various features of this system.

1-2 Problem Definition

Using manual system to manage the students which are records all information and, in the book, or paper was causing the job of the teachers becomes more troublesome. The CSE management has to handle records for many numbers of teachers and students and maintenance was difficult. Though it has used an information system, it was totally manual. Hence there is a need to upgrade the system with a computer-based information system.

1-3 Main objectives

- ❖ To reduce the paper work
- ❖ Eliminate manual processes
- ❖ Save significant staff time
- ❖ To reduce errors

1-4 System descriptions

We have three users in system:

- ❖ Admin: Can manage teachers and students, assign courses, manage access.
- ❖ Teacher: Can take attendance, enter marks, view statistic, upload material etc.
- ❖ Student: Can register to the courses, view marks, view attendance, view result etc.

1-5 Requirements

- ❖ The system should be user friendly and intuitive such that it can be understood and use by any student or teacher.
- ❖ Users should have full control on their accounts.
- ❖ The system should be responsive.
- ❖ The system should be secured and protect against attacks such as cross site request forgery and SQL injection.

Chapter 2 – Diagrams

2-1 Architectural Diagram

The system is based on Model view controller.

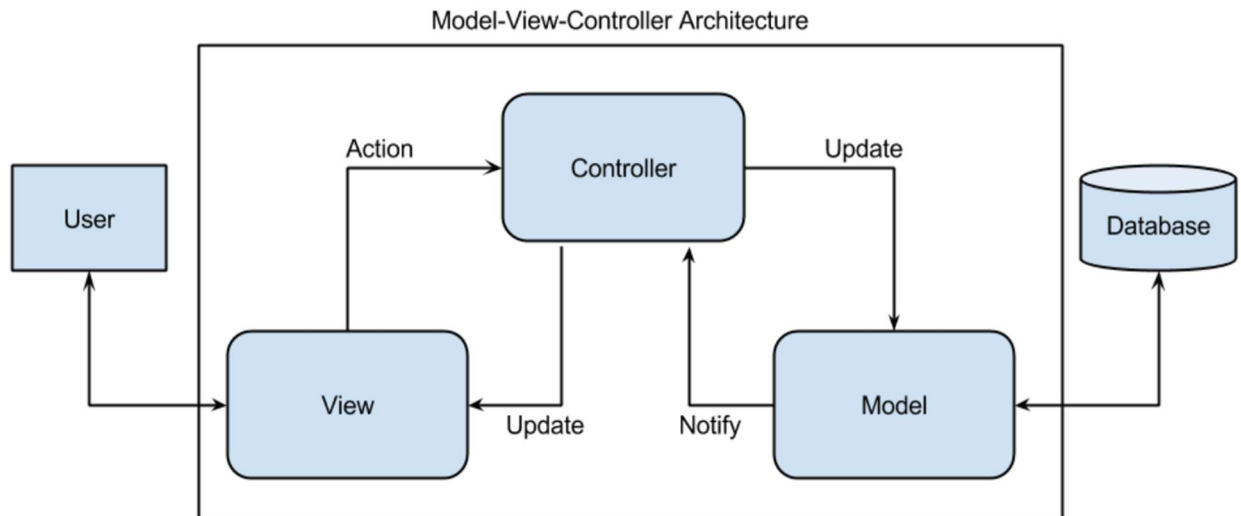


Figure 1: Architectural Diagram

2-1-1 The Model

Implemented using php, it interacts with all the system related data and entities. It connects to the database to provide data to the controller and the view.

2-1-2 The Controller

Implemented using php it represents all the business logic of the system and act as an intermediary between the model and the view.

2-1-3 The View

Implemented using HTML, CSS and JavaScript it is responsible for presentation and formatting of data sent to and from the controller or the model.

2-2 Modeling Diagram

2-2-1 Context Diagram

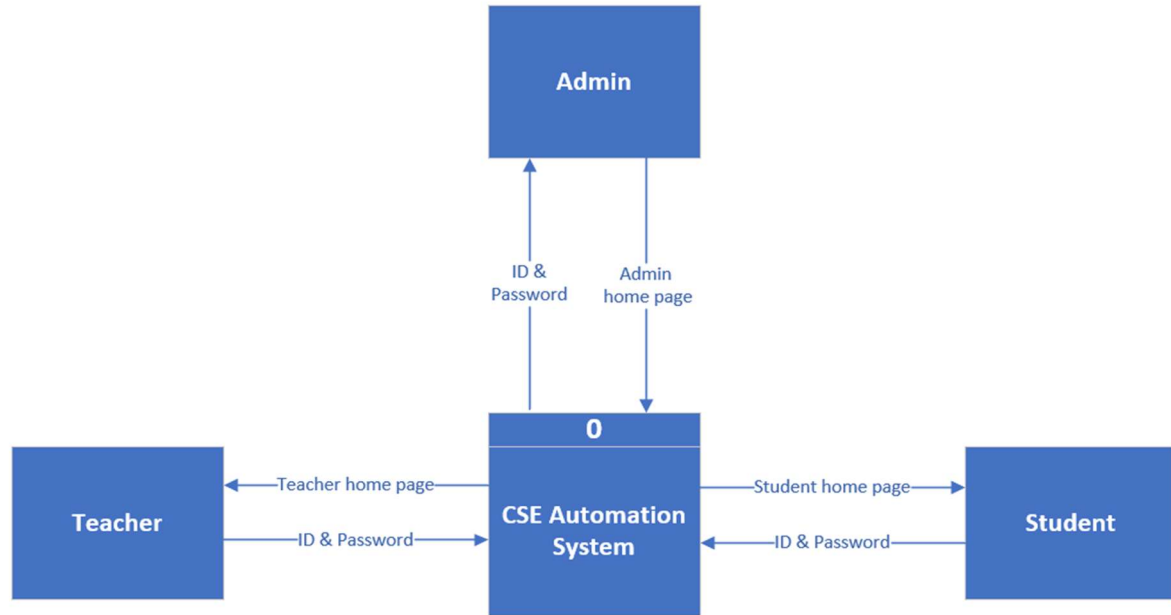


Figure 2: Context Diagram

Description

The context diagram contains:

- ❖ The main process which is the system name (CSE Automation System).
- ❖ And three entities:
 - Administrator who monitor and manage the activity of the system.
 - Teacher who browse and do almost anything within a course, including adding or changing the activities and grading students.
 - Student will who browse and takes responsibility for what is learned and be accountable for the results of the learning process.

2-2-2 Diagram Zero

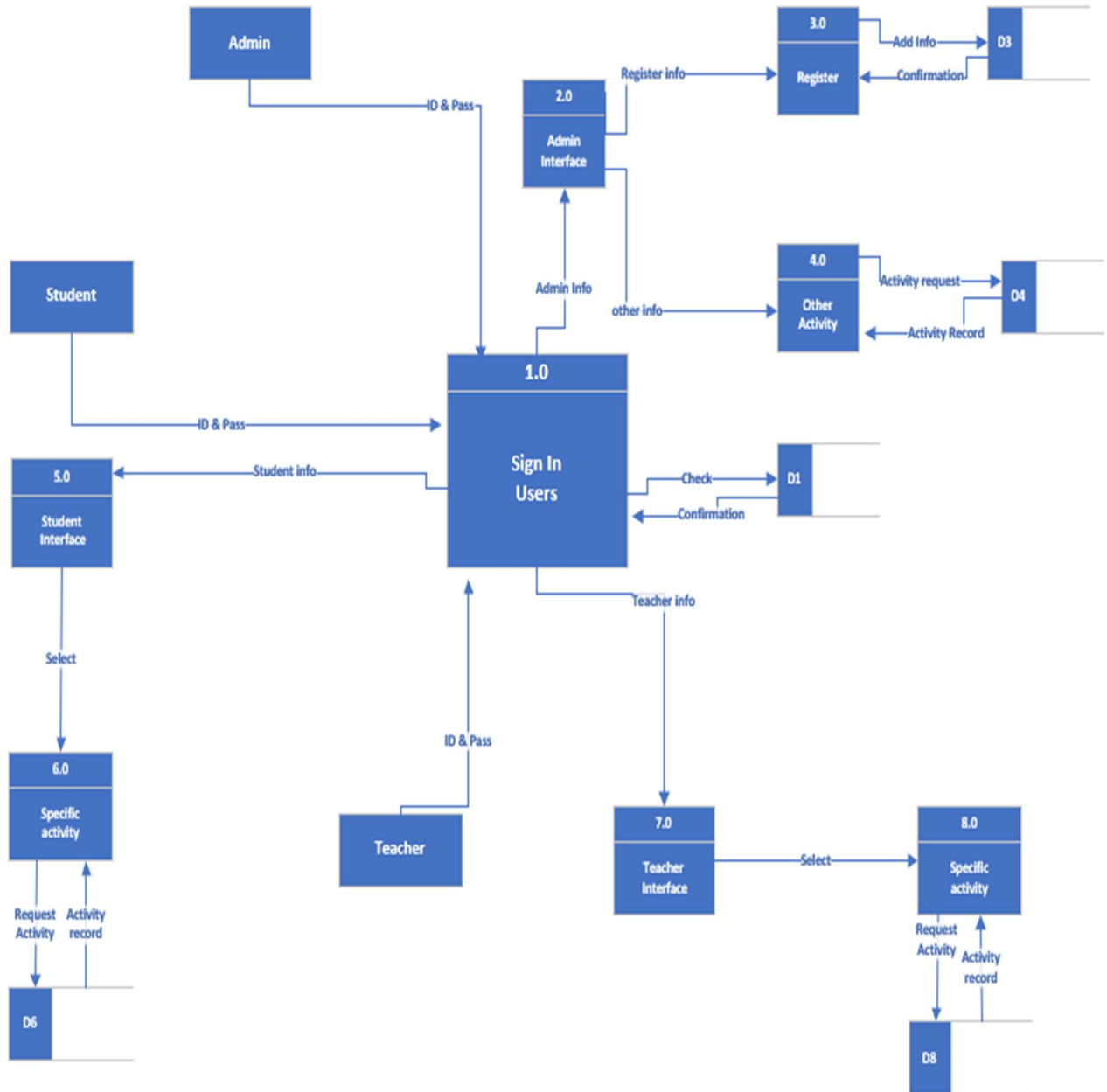


Figure 3: Diagram 0

Description:

The diagram 0 is the expansion of the context diagram showing main process of the system:

❖ Eight (8) process:

- 1. Sign in user
- 2. Admin Interface
- 3. Register
- 4. Admin Other Activity
- 5. Student Interface
- 6. Student's Specific Activity
- 7. Teacher Interface
- 8. Teacher's Specific Activity

❖ Five (5) data store:

- D1- Authentication master
- D3- Student and Teacher master
- D4- Admin master
- D6- Student master
- D8- Teacher master

❖ Three (3) entities:

- Admin
- Student
- Teacher

2-2-3 Activity Diagram

In this diagram we show the flow of data when a user login into the system and make a change of an activity.

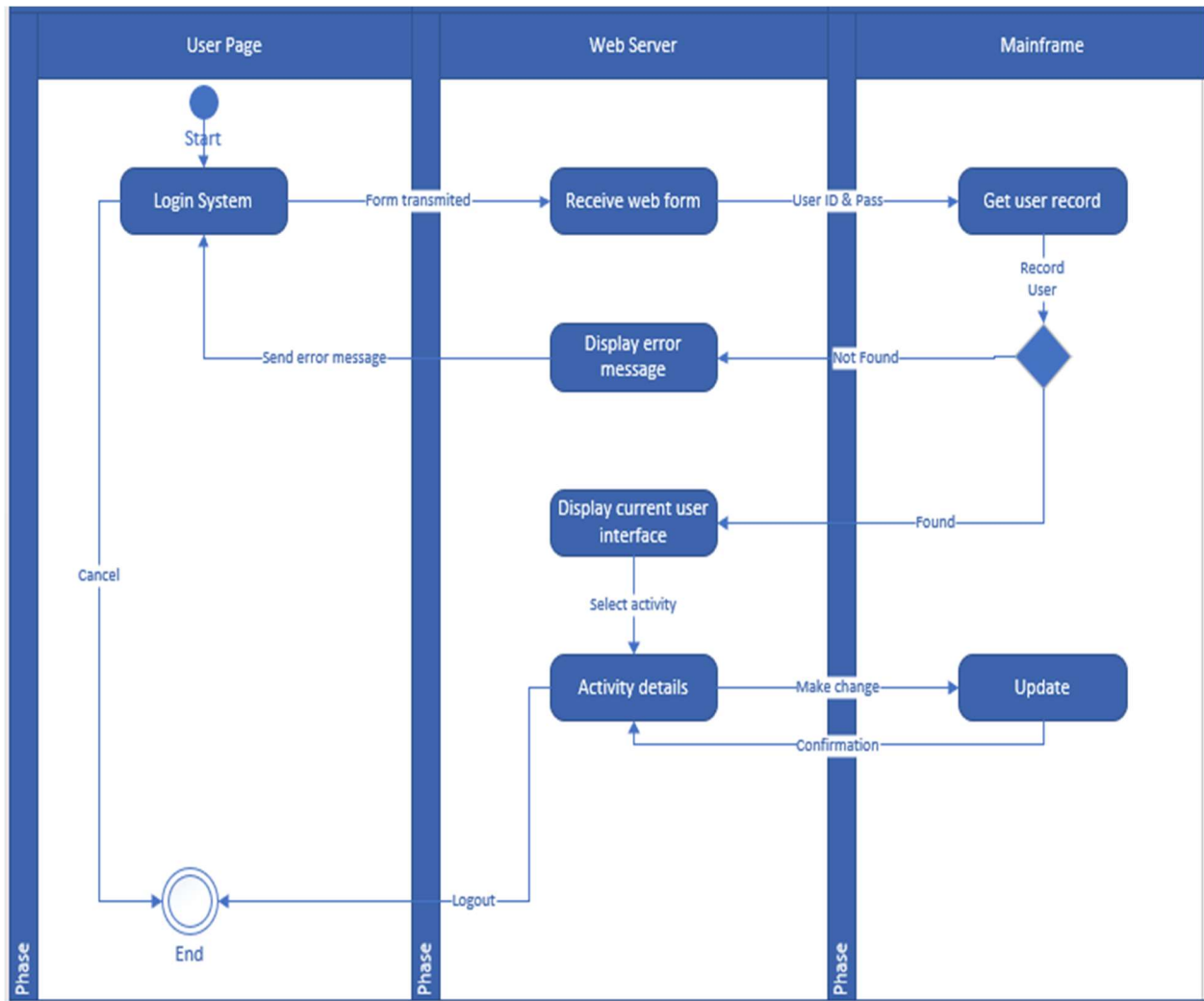


Figure 4: Activity Diagram

2-2-4 Entity Relationship Diagram (ER)

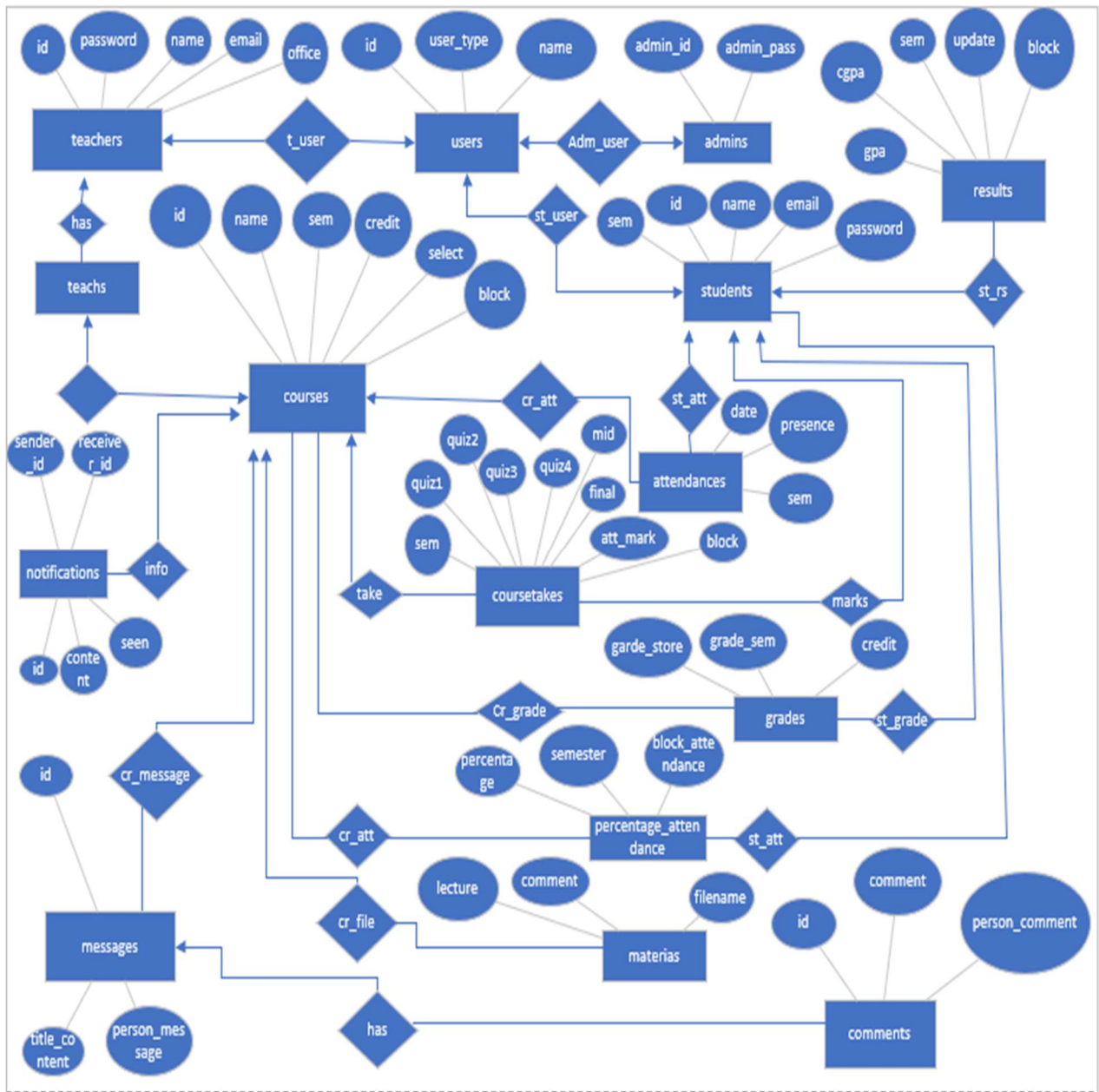


Figure 5: ER Diagram

2-2-5 Sequence Diagram

In this diagram we show the flow of data when a Student login into the system to see his result.

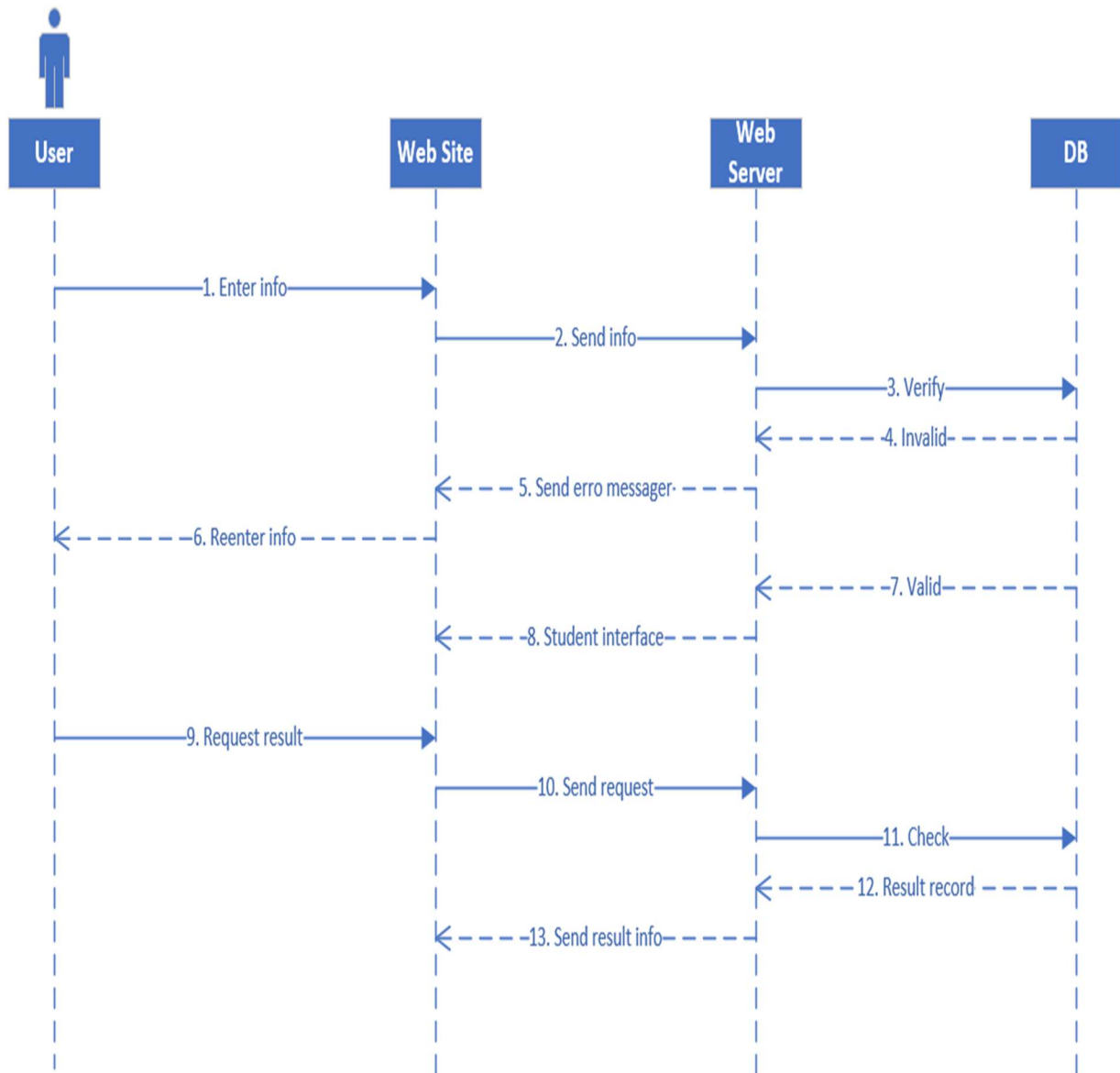


Figure 6: Sequence Diagram

Chapter 3 Features

3-1 Admin Features

The administrator of the system can:

- ❖ Add and manage teacher
- ❖ Add and manage student
- ❖ Add and manage courses
- ❖ Manage access to some courses and results
- ❖ See attendances according to the percentages
- ❖ See the results according to the semester

3-2 Teacher's Features

- ❖ Upload materials
- ❖ Give attendance
- ❖ Give marks to students
- ❖ See the statistic of his specific course
- ❖ Post and comment on the Forum
- ❖ Send a message to a specific student or to all the students
- ❖ Manage his personal information

3-3 Student's Features

- ❖ Download materials
- ❖ See his attendance
- ❖ See his marks
- ❖ See his result
- ❖ Post and comment on the Forum
- ❖ Manage his personal information

3-4 Guest Features

- ❖ See all the information about CSE and all the courses available

Chapter 4 -Technologies and Tools

4-1 Programming Languages

- ❖ Php 8.0.2 use to represent logic.

4-2 Scripting Languages

- ❖ Html 5, CSS3 and JavaScript used in front-end development to represent views.

4-3 Libraries

- ❖ Bootstrap 4.5.0 as CSS library
- ❖ jQuery 3.5.1 as JavaScript library

4-4 Framework

- ❖ Laravel 6.20.2: Laravel is a server-side PHP framework using the model view controller (MVC) architecture.

4-5 Web Server

- ❖ Xampp 7.6.2

4-6 Database Server

- ❖ MySQL

Chapter 5 - User Interface Design

5-1 Home Page

From the home page a user can have all the information about the department and the achievements.

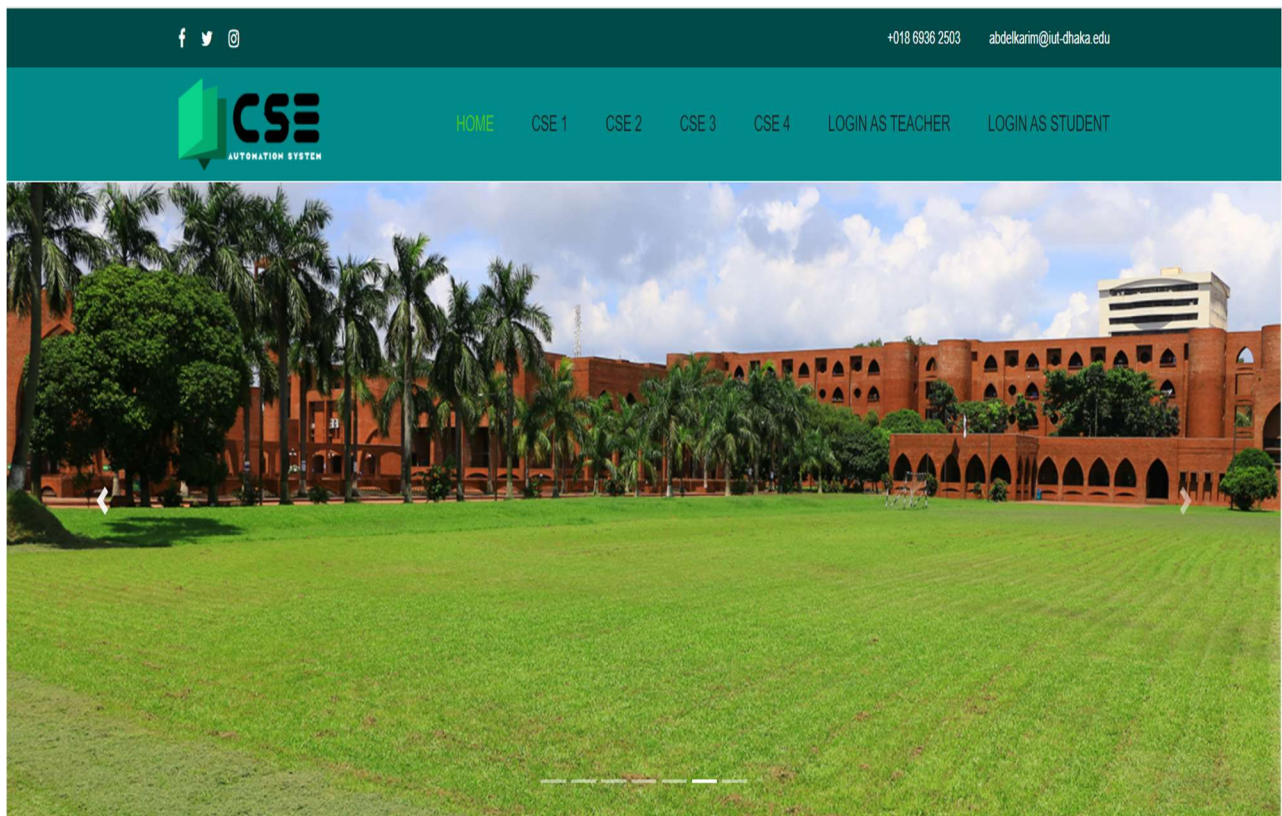


Figure 7: Home Page Background image



Welcome to the Department of CSE

We are delighted to welcome you to the Department of Computer Science and Engineering (CSE) at the Islamic University of Technology (IUT). The Department's long and decorated history is a story of relentless refinement and a never-ending pursuit of academic excellence at the highest level. The department was created with a vision to create a community of scholars and engineers who are equipped with the requisite knowledge and expertise to make meaningful contributions across the many different disciplines within Computer Science and Engineering.

The department has continued to reinvent itself throughout the years. Since its inception, the department has sought to develop a highly qualified pool of faculty members who are capable of guiding students through the many challenges and exciting opportunities inherent in such a fast-changing academic discipline. The department also strives to offer the state of the art in terms of facilities, laboratories, and resources to students with a view to creating more and more possibilities for research and effective learning. Furthermore, the department goes out of its way to arrange workshops, seminars, conferences, and internship programs, to assist in the holistic development of our students. We also seek to collaborate with the industry and other universities, pooling our expertise together to create meaningful and impactful work.

We aim to be a premier research hub, and for the attainment of this goal, we have outlined five different research areas with dedicated labs and associated resources. This includes The Systems and Software Lab (SSL), the Computer Vision Lab (CVLab), the Network and Data Analysis Group (NDAG), the Network Research Group, and the Bioinformatics and Data Mining Research Group (BDMRG). These are active groups that enjoy vibrant participation from both us, the faculty at the CSE department, and also the students who get to explore a unique opportunity to experience research.

This is but a tiny glimpse of what the CSE department has to offer. We implore you to delve into our website and explore in detail the many activities and achievements and the dynamic culture of this department. Feel free to contact us for any further information. Your feedback is highly appreciated.

Figure 8: Information about CSE Department

Achievements

- SUST CSE Carnival 2017 Programming Contest**
 IUT_Flash is the Champion of SUST CSE Carnival 2017 programming contest beating 165 teams. 'SUST 6th CSE Carnival 2017', was organized by CSE Society of Shahjalal University of Science and Technology.
- European Rover Challenge 2018**
 IUT Mars Rover - Team Avijatrik Stood 14th in European Rover Challenge 2018, Poland. It is also the highest achievement for any team from Bangladesh in ERC 2018.
- 2018 ICPC Asia Dhaka Regional Contest**
 Team IUT_ReverseFlash stood 5th among 300 teams in ACM ICPC Dhaka Regional 2018 which was hosted by Daffodil International University.
- 4th AUW ICT FEST 2018**
 Team Captivators clinched their very first championship prize in the ICT4D(ICT for Development) event in the 4th AUW ICT Fest 2018.

Figure 9: Information about the Achievements

5-2 Course Details

First Semester			Second Semester		
Course Id	Names	Credits	Course Id	Names	Credits
CSE 4104	Engineering Drawing Lab	0.75	Chem 4241	Chemistry	3
CSE 4105	Computing for Engineers	3	Chem 4242	Chemistry Lab	0.75
CSE 4107	Structured Programming I	3	CSE 4202	Structured Programming II Lab	1.5
CSE 4108	Structured Programming I Lab	1.5	CSE 4203	Discrete Mathematics	3
Hum 4142	Arabic I	1	CSE 4205	Digital Logic Design	3
Hum 4144	English I	1	CSE 4206	Digital Logic Design Lab	0.75
Hum 4145	Islamiat	2	Hum 4241	Islamic History Science and Culture	2
Hum 4147	Technology, Environment and Society	3	Hum 4242	Arabic II	1

Figure 10: First and Second Semester Courses details

Third Semester			Fourth Semester		
Course Id	Names	Credits	Course Id	Names	Credits
CSE 4301	Object Oriented Programming	3	CSE 4402	Visual Programming Lab	1.5
CSE 4302	Object Oriented Programming Lab	1.5	CSE 4403	Algorithms	3
CSE 4303	Data Structures	3	CSE 4404	Algorithms Lab	1
CSE 4304	Data Structures Lab	1.5	CSE 4405	Data and Telecommunications	4
CSE 4305	Computer Organization and Architecture	3	CSE 4407	System Analysis and Design	2
CSE 4307	Database Management Systems	3	CSE 4408	System Analysis and Design Lab	1
CSE 4308	Database Management Systems Lab	1.5	EEE 4483	Digital Electronics and Pulse Techniques	3
EEE 4383	Electronic Devices and Circuits	3	EEE 4484	Digital Electronics and Pulse Techniques Lab	0.75

Figure 11: Third and Fourth Semester Course details



Fifth Semester			Sixth Semester		
Course Id	Names	Credits	Course Id	Names	Credits
CSE 4501	Operating Systems	3	CSE 4600	Project or Thesis	3
CSE 4502	Operating Systems Lab	1	CSE 4610	Design Project	1.5
CSE 4503	Microprocessor and Assembly Language	3	CSE 4614	CSE 4614	0.75
CSE 4504	Microprocessor and Assembly Language Lab	0.75	CSE 4615	Wireless Networks	2
CSE 4508	RDBMS Programming Lab	1.5	CSE 4616	Wireless Networks Lab	0.75
CSE 4510	Software Development	0.75	CSE 4617	Artificial Intelligence	3
CSE 4511	Computer Networks	3	CSE 4618	Artificial Intelligence Lab	0.75
CSE 4512	Computer Networks Lab	1.5	CSE 4619	Peripherals and Interfacing	3

Figure 12: Fifth and Sixth Semester Course details



Seventh Semester			Eighth Semester		
Course Id	Names	Credits	Course Id	Names	Credits
CSE 4700	Project or Thesis	3	CSE 4800	Project or Thesis	3
CSE 4703	Theory of Computing	3	CSE 4801	Compiler Design	3
CSE 4709	Machine Learning	3	CSE 4802	Compiler Design Lab	0.75
CSE 4710	Machine Learning Lab	0.75	CSE 4803	Graph Theory	3
CSE 4733	Digital Image Processing	3	CSE 4807	IT Organization and Management	3
CSE 4734	Digital Image Processing Lab	0.75	CSE 4809	Algorithm Engineering	2
CSE 4735	Digital Systems Design	3	CSE 4810	Algorithm Engineering Lab	0.75
CSE 4736	Digital Systems Design Lab	0.75	CSE 4833	VLSI Design and Testing	3

Figure 13: Seventh and Eighth Semester Course details

5-3 Admin Panel

5-3-1 Admin Login

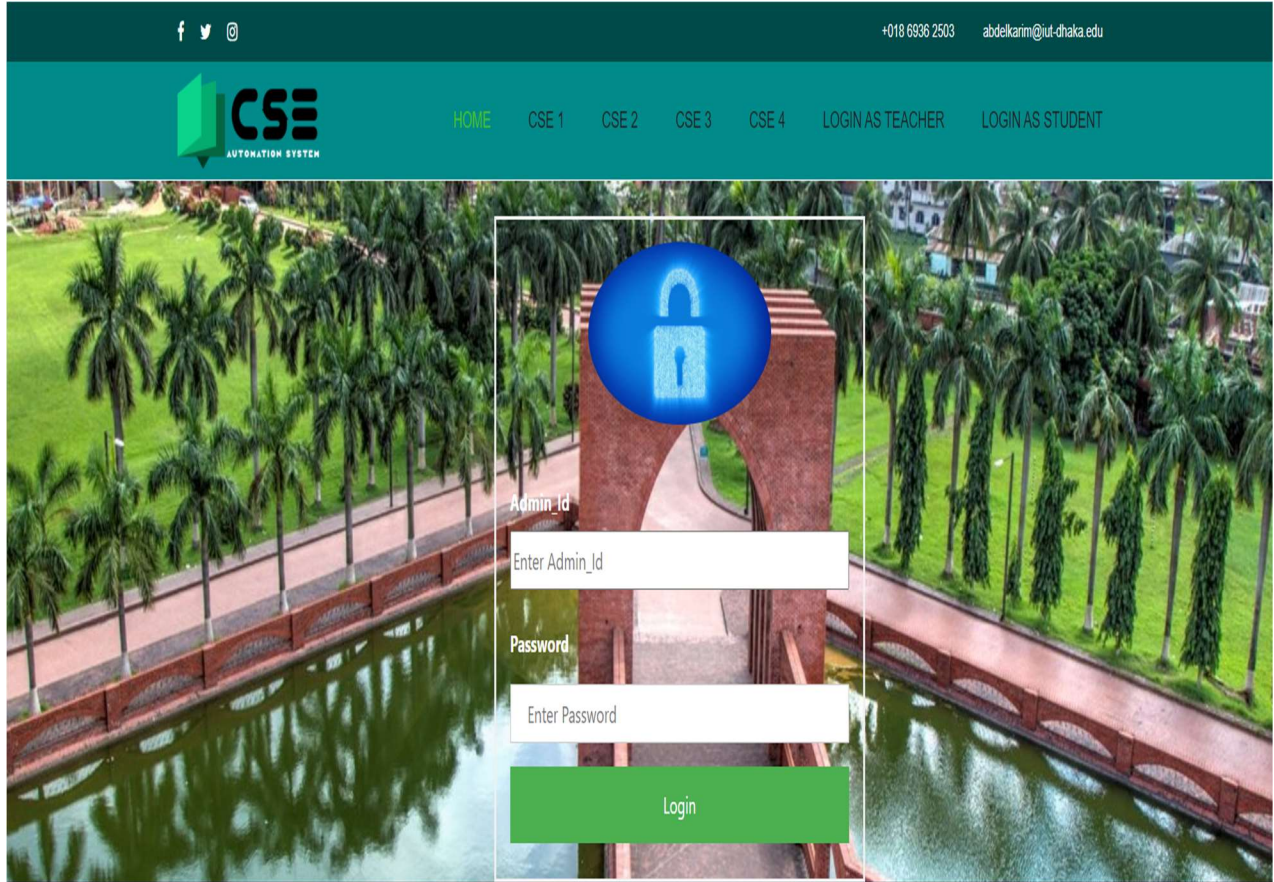
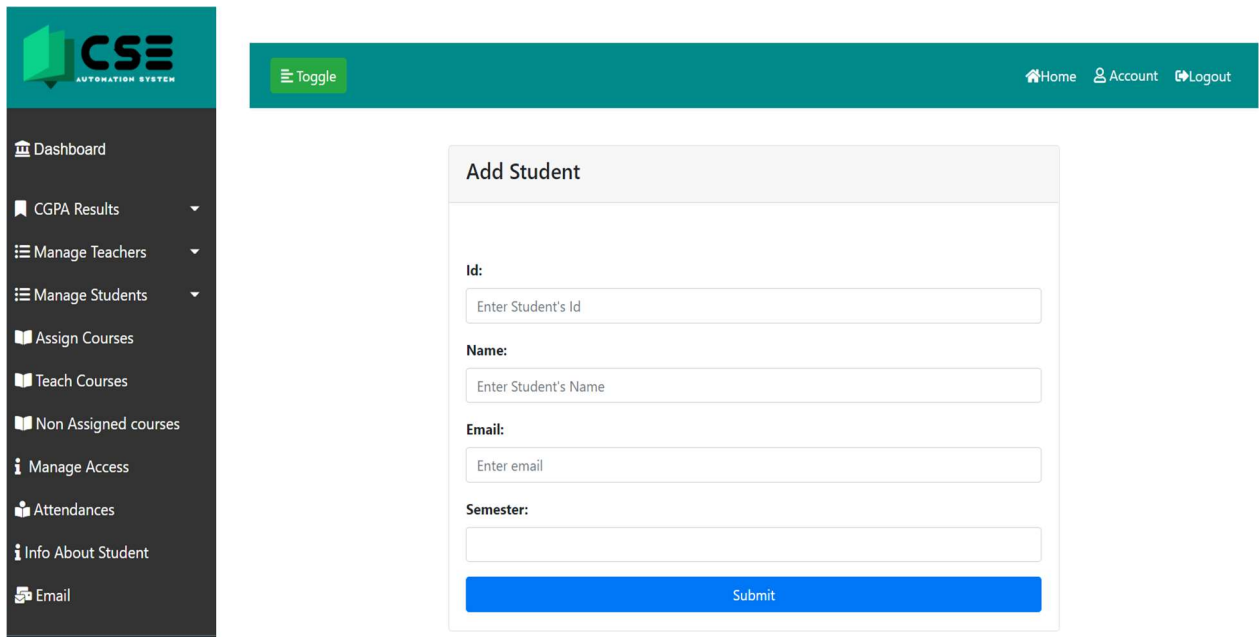


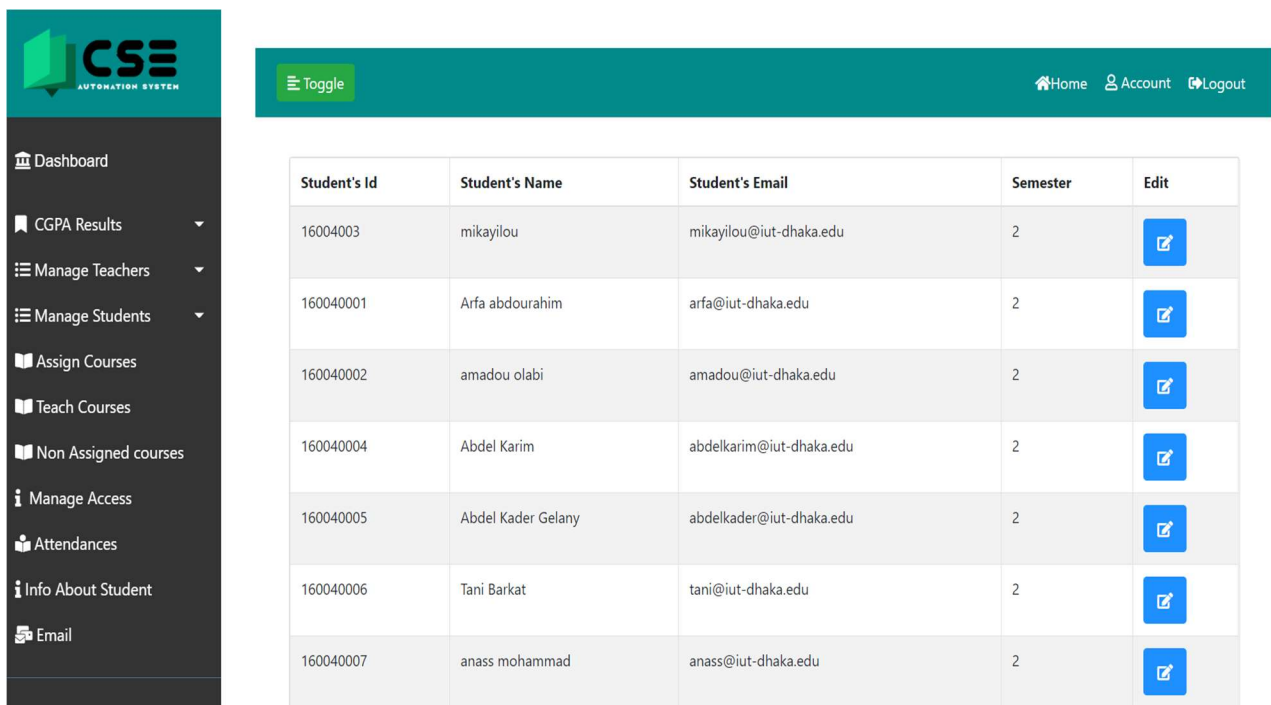
Figure 14: Admin Login Page

5-3-2 Add and Manage Student



The screenshot shows the 'Add Student' form within the CSE Automation System interface. The form is titled 'Add Student' and contains four input fields: 'Id' (with placeholder 'Enter Student's Id'), 'Name' (with placeholder 'Enter Student's Name'), 'Email' (with placeholder 'Enter email'), and 'Semester'. A blue 'Submit' button is located at the bottom of the form. The interface includes a sidebar with navigation options and a top navigation bar with 'Home', 'Account', and 'Logout' links.

Figure 15: Add new Student



The screenshot shows the 'Manage Student' table within the CSE Automation System interface. The table has five columns: 'Student's Id', 'Student's Name', 'Student's Email', 'Semester', and 'Edit'. Each row represents a student, and the 'Edit' column contains a blue pencil icon. The interface includes a sidebar with navigation options and a top navigation bar with 'Home', 'Account', and 'Logout' links.








Student's Id	Student's Name	Student's Email	Semester	Edit
16004003	mikayilou	mikayilou@iut-dhaka.edu	2	
160040001	Arfa abdourahim	arfa@iut-dhaka.edu	2	
160040002	amadou olabi	amadou@iut-dhaka.edu	2	
160040004	Abdel Karim	abdelkarim@iut-dhaka.edu	2	
160040005	Abdel Kader Gelany	abdelkader@iut-dhaka.edu	2	
160040006	Tani Barkat	tani@iut-dhaka.edu	2	
160040007	anass mohammad	anass@iut-dhaka.edu	2	

Figure 16: Manage student

5-3-3 Assign course to the teacher

Figure 17: Assign course Page

5-3-4 Teacher's course

The Admin can manage teacher's course by removing a course to a specific teacher.

Teacher's ID	Teacher's Name	Course ID	Delete
19003002	Ibrahim Mubarack	EEE 4384	
19003002	Ibrahim Mubarack	EEE 4383	
160030001	Njayou Youssouf	CSE 4104	
160030002	Talha Ibn Aziz	CSE 4107	
160030002	Talha Ibn Aziz	CSE 4108	
160030002	Talha Ibn Aziz	CSE 4202	
160030004	Bakhtiar Hasan	CSE 4105	

Figure 18: Teacher's Course Page

5-3-5 Manage access

Admin can manage course by blocking the access to the attendance, the result, or to a teacher to give marks.

The screenshot shows the 'Manage Access' page. On the left is a dark sidebar with the following menu items: Dashboard, CGPA Results, Manage Teachers, Manage Students, Assign Courses, Teach Courses, Non Assigned courses, Manage Access, Attendances, Info About Student, and Email. The top navigation bar includes a 'Toggle' button, 'Home', 'Account', and 'Logout' links. The main content area is titled 'Manage Access' and contains four rows, each with a text label and a blue lock icon:

- Lock Access to the Results
- Lock Access for teachers to give Attendances
- Lock Access for teachers to give Marks
- Lock Access to Course

Figure 19: Manage access Page

5-3-6 Manage access to course

Admin can manage course by blocking access to it.

The screenshot shows the 'Manage access to course' page. The top navigation bar includes a 'Toggle' button, 'Home', 'Account', and 'Logout' links. Below the navigation bar is a table with the following data:

Course's Id	Course's Name	Status
CSE 4104	Engineering Drawing Lab	
CSE 4105	Computing for Engineers	
CSE 4107	Structured Programming I	
CSE 4108	Structured Programming I Lab	
Hum 4142	Arabic I	
Hum 4144	English I	
Hum 4145	Islamiat	

Figure 20: Manage access to course Page

5-3-7 Attendance Page

Admin can see the attendance of all the student according to their percentage of presence.

Id	Name	Percentages
16004003	mikayilou	88.89 %
160040001	Arfa abdourahim	88.89 %
160040002	amadou olabi	88.89 %
160040004	Abdel Karim	100 %
160040005	Abdel Kader Gelany	88.89 %
160040006	Tani Barkat	100 %
160040007	anass mohammad	100 %

< 1 2 >

Figure 21: Attendance Details

5-3-8 Result Page

Admin can see the results of all the student according to the semester.

Id	Name	GPA	CGPA
16004003	mikayilou	3.61	3.76
160040001	Arfa abdourahim	3.95	3.92
160040002	amadou olabi	3.85	3.93
160040004	Abdel Karim	3.67	3.84
160040005	Abdel Kader Gelany	3.88	3.94
160040006	Tani Barkat	3.83	3.77

< 1 2 >

Figure 22: Result Page

5-4 Teacher Panel

5-4-1 Teacher attendance

Attendance

Student Id	Presence
170040001	<input type="text"/>
170040002	<input type="text"/>
170040003	<input type="text"/>

[Submit](#)

Figure 23: Teacher attendance Page

5-4-2 Teacher attendance detail

A Teacher can see the attendance details of a specific student in his course.

Attendance Details

This student has 50.00% of attendance in your course.

Student Id	Date	Presence
170040002	2021-01-08	✓
170040002	2021-02-24	✗

Figure 24: Attendance details of a specific student Page

5-4-3 Teacher marks

Marks

Student Id	Quiz 1	Quiz 2	Quiz 3	Quiz 4	Mid	Final	Att	(%)
170040001	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	100.00 %
170040002	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	100.00 %
170040003	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	50.00 %

Figure 25: Teacher marks Page

5-4-4 Course statistics

Teacher can see how student performed in his course.

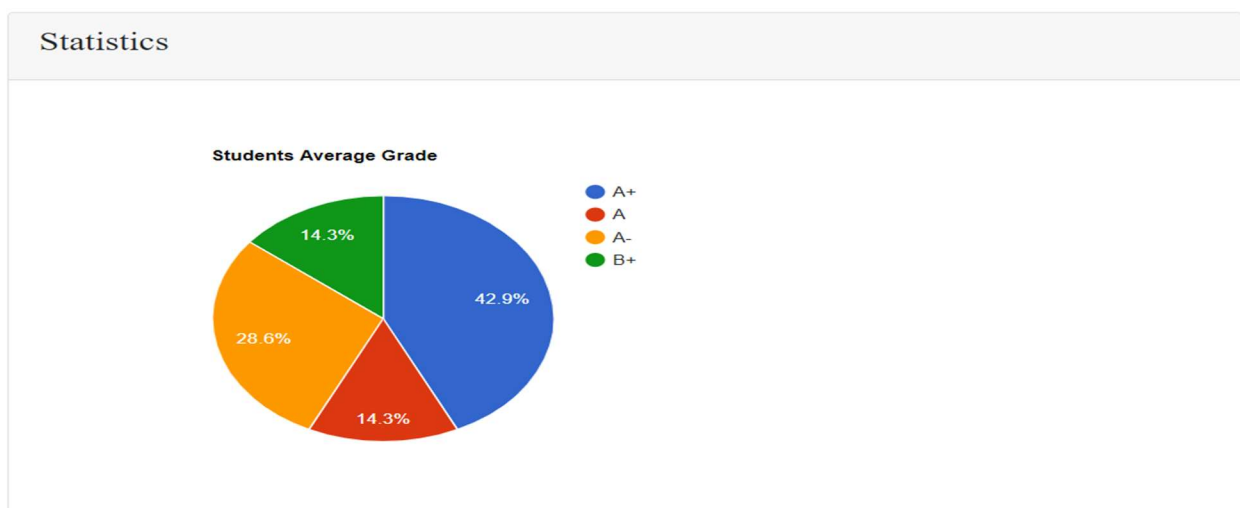


Figure 26: Course statistics Page

5-4-5 Forum

Teacher can post and make a comment on the forum and can also see the other post related to his course.

Abdul Hakim

Output in C

Hello, I would like to know how to write an output in C.
Can someone help me ?

2021-01-06 16:03:47

Your comment

Comment

Other Posts

Variable in C,(CSE 4107)

C Programming,(CSE 4107)

Figure 27: Forum Page

5-4-6 Teacher Notification

Teacher can send a message to all student or to a specific student.

Message

Select ID:

All Students ▾

Message:

Send

Figure 28: Teacher's message Page

5-5 Student Panel

5-5-1 Student Login

The screenshot displays the student login interface. At the top, a dark teal header contains social media icons (Facebook, Twitter, Instagram) on the left, and contact details (+018 6936 2503 and abdelkarm@iut-dhaka.edu) on the right. Below this is a teal navigation bar with the CSE Automation System logo and menu items: HOME, CSE 1, CSE 2, CSE 3, CSE 4, LOGIN AS TEACHER, and LOGIN AS STUDENT. The main content area features a blue background with a large, semi-transparent 'Password:' text and a fingerprint icon. A white-bordered login form is positioned on the right, containing two input fields: 'Userid' with the placeholder 'Enter Userid' and 'Password' with the placeholder 'Enter Password'. A green 'Login' button is located at the bottom of the form.

Figure 29: Student Login Page

5-5-2 Students' marks

A Student can see his mark details according to all courses.


Marks 								
Courses	CT-1	CT-2	CT-3	CT-4	3 Highest	Mid	Final	Att
Chem 4241	12	12	12	12	36	66	111	30
Chem 4242	3	3	3	3	9	12	23	7
CSE 4202	5	6	7	7	20	32	68	15
CSE 4203	11	11	11	11	33	66	124	30
CSE 4205	12	11	11	10	34	56	134	30
CSE 4206	2	2	2	2	6	17	34	7

Figure 30: Student's marks Page

5-5-3 Student results

A student can see his result according to the semester and can be able to print it.

Course No	Course Title	Credit	Grade
Chem 4241	Chemistry	3	A
Chem 4242	Chemistry Lab	0.75	A-
CSE 4202	Structured Programming II Lab	1.5	A+
CSE 4203	Discrete Mathematics	3	A+
CSE 4205	Digital Logic Design	3	A+
CSE 4206	Digital Logic Design Lab	0.75	A+
Hum 4241	Islamic History Science and Culture	2	A+
Math 4241	Integral Calculus and Differential Equations	4	A+
Phy 4241	Physics II	3	A+
Phy 4242	Physics II Lab	0.75	A+
Hum 4244	English II	1	A+

Grade Point Average (GPA) For This Semester : **3.95**

Cumulative Grade Point Average (CGPA) : **3.92**



Figure 31: Student result Page

5-5-4 Student's Forum

A student can be able to post, comment on a forum post.

Abdul Hakim

Output in C

Hello, I would like to know how to write an output in C.
Can someone help me ?

2021-01-06 16:03:47

Your comment

Comments

Arfa abdourahim

`printf("Enter a value :");`

2021-01-08 07:53:58

Talha Ibn Aziz

This an example `printf("Hello World");`

2021-01-07 03:38:51

Other Posts

The 5 Pillars of Islam,
(Hum 4145)

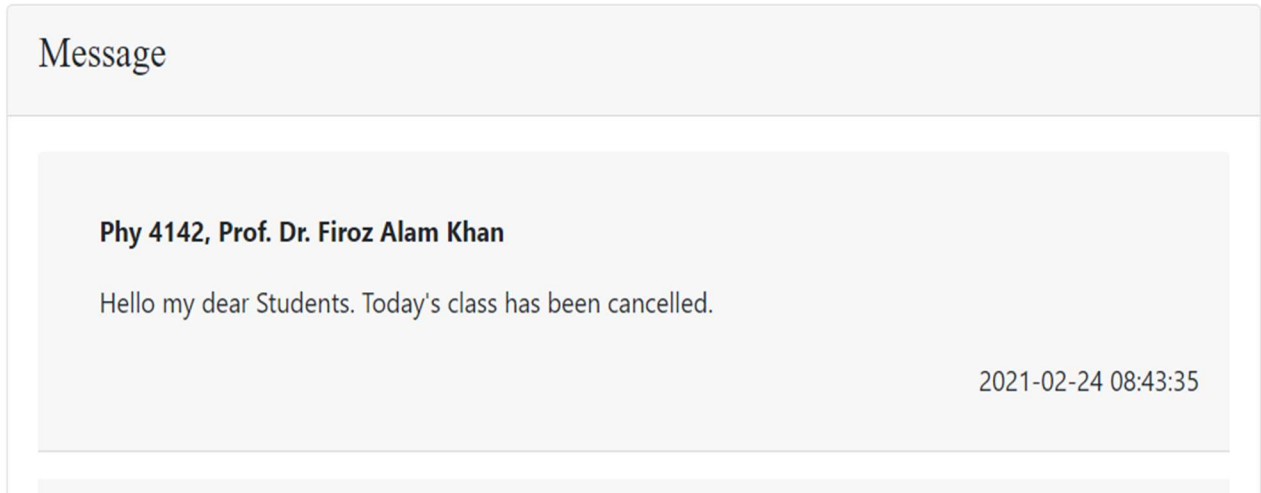
Variable in C,(CSE
4107)

C Programming,(CSE
4107)

Figure 32: Student Forum Page

5-5-5 Student notification

Student can see all the notifications he has received.

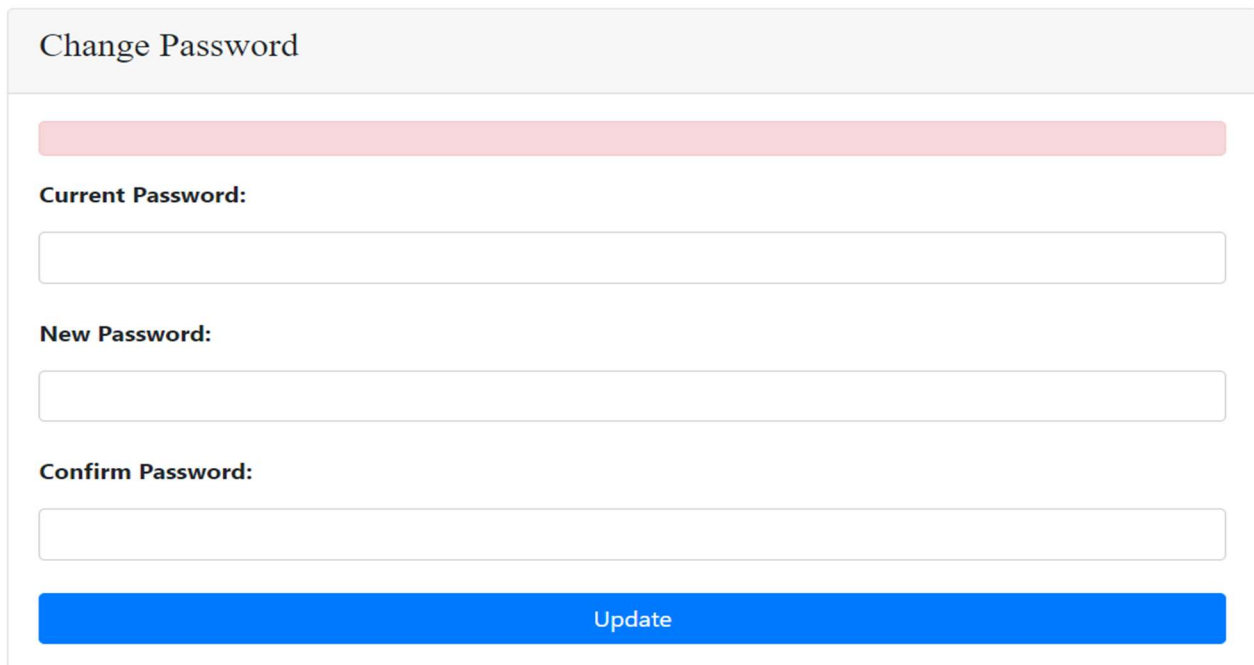


The screenshot shows a notification interface. At the top, there is a header labeled "Message". Below this, a message box contains the following text: "Phy 4142, Prof. Dr. Firoz Alam Khan" followed by "Hello my dear Students. Today's class has been cancelled." The message is dated "2021-02-24 08:43:35" in the bottom right corner.

Figure 33: Student notification Page

5-5-6 Student password

A student can decide to change his password.



The screenshot shows a "Change Password" form. It features a header "Change Password" and a red progress bar. Below the header, there are three input fields labeled "Current Password:", "New Password:", and "Confirm Password:". At the bottom of the form, there is a blue button labeled "Update".

Figure 34: Student password Page

Chapter 6 – Conclusion and feature works

6-1 Feature Works

In the future we will like to include a life chat, Skills/Certification tracking and Video conferencing.

6-2 Conclusion

The Internet has become a major resource in modern world. students can carry on with their education without a risk to have COVID-19.