



Inspiring Excellence

CSE370 : Database Systems

Project Report

Project Title : CurriculumX

(Following MVC Architecture)

Group No : 08, CSE370 Lab Section : 09, Fall 2024		
ID	Name	Contribution
22301548	AMIRA TANJUM CHOWDHURY	Backend (instructor dashboard)
22301562	RAIANA FERDOUS DISHA	Backend (Student DashBoard)
22201027	AHASN HABIB	FRONTEND, BACKEND (ADMIN Dashboard)

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Introduction (Following MVC architecture)

Welcome to CurriculumX: Your Free Educational platform!

At CurriculumX, we believe that education should be accessible to everyone, regardless of their financial background. That's why we've created an innovative online platform that offers a wide range of educational resources at no cost.

Who We Are

CurriculumX is a dedicated team of educators, technologists, and learners committed to breaking down the barriers to education. Our mission is to empower individuals with the knowledge and skills they need to succeed in their personal and professional lives.

What We Offer

From comprehensive courses in various subjects to interactive learning materials and tools, CurriculumX provides a rich, engaging, and user-friendly educational experience. Whether you're a student looking to supplement your studies, a professional seeking new skills, or a lifelong learner, CurriculumX has something for you.

Join Us

Join our community and embark on your learning journey with CurriculumX today. Let's make education free and accessible for everyone.

Feel free to tweak it as needed! How does this sound to you?

Project Features **(Following MVC architecture)**

1. 22201027 : AHSAN HABIB

1. Login:

- There are 3 roles for login and Signup (Admin, Instructor and Students) - each can select their role type and login into curriculumX (having Sessions (server side) and Cookies (client_side) to remember users)

Signup:

- Students can create their own profiles via signup and Database will store the information. Passwords will be hashed for an extra layer of security.

2. Create or Add instructors:

- Admin can Add or create a new Instructor and block them if necessary.

3. Read & Deletion:

- Admin can see and moderate all students Including Deleting their profiles only if they have not enrolled in courses yet. Otherwise it violates database integrity.

4. Update:

- Admin can update or Reset the Passwords of all the Students.
- Admin can Upload PDF of Announcements and users can download them.

5. Platform Overview / Monitorization:

- Admin can see the number of students enrolled in each department, total number of instructor courses and show statistics analysis of the traffic of the platform

6. Search Operation:

- Admin can search individual students by their ids.

2. 22301548 : AMIRA TANJUM CHOWDHURY

1. Instructor Dashboard

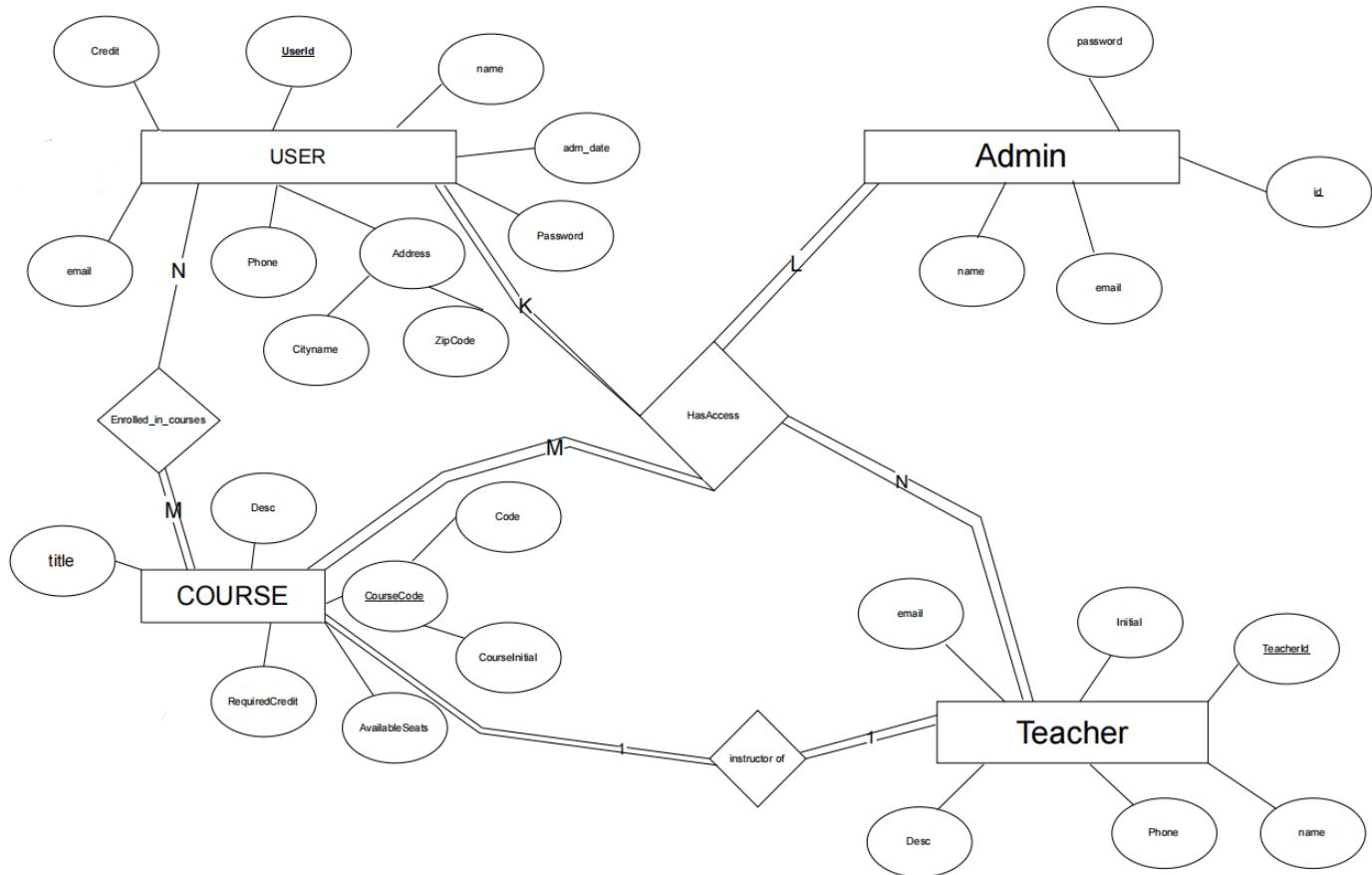
- Instructors can update their Profile (Including their profile picture and Information, Reset Their passwords)

2. Create and Upload Contents and Course materials:
 - Instructors can Create new courses and the course contents.
3. Keep track of students and delete them
 - Instructors can see the individual students of each course and Delete individual students from their particular courses.
4. Upload materials
 - Instructors can upload (PDF, DOCS, PHOTOS, VIDEOS) for their individual courses as course materials
5. Instructors can update the Privacy of their own courses from public to private.

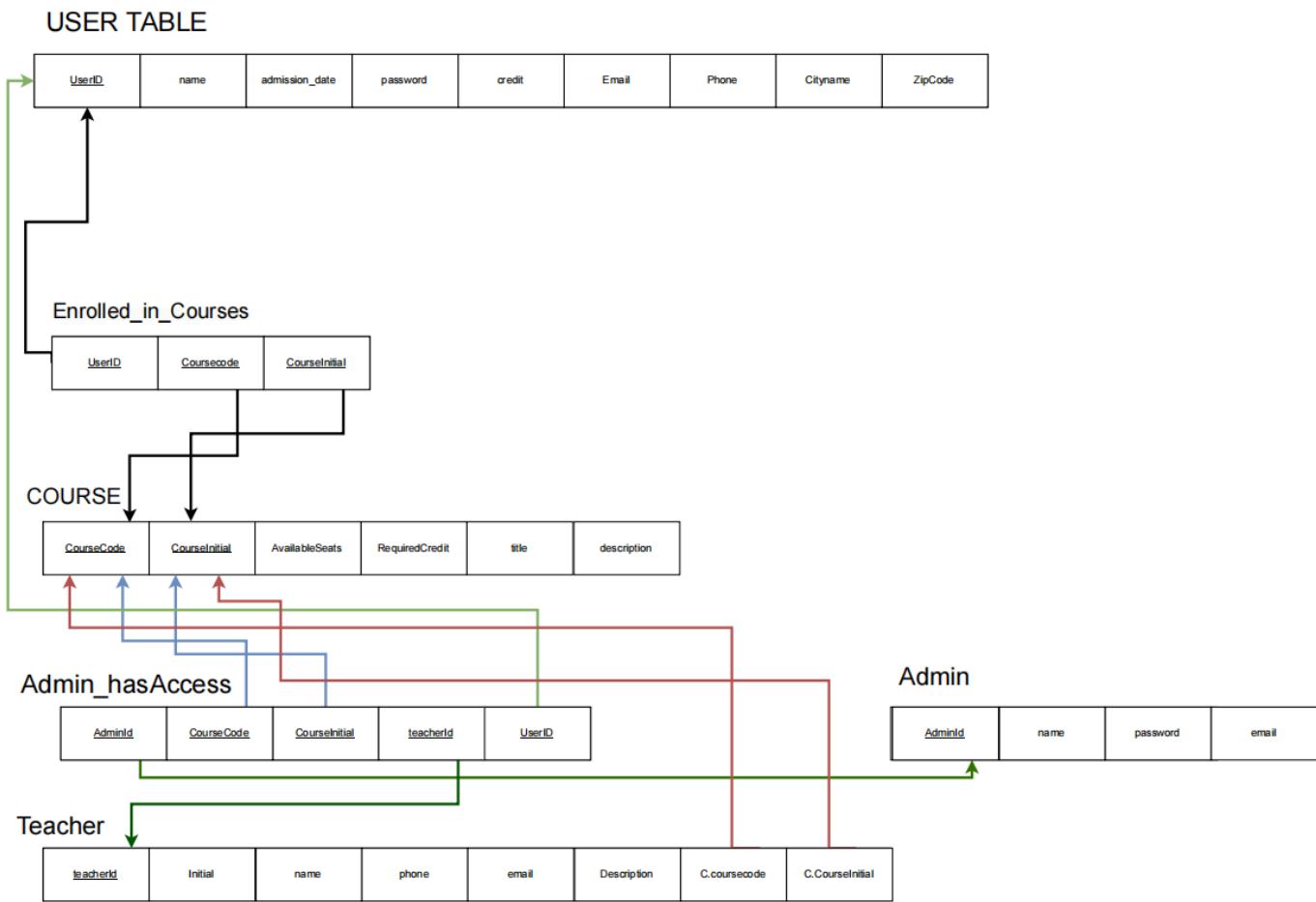
3. 22301562 : RAIANA FERDOUS DISHA:

1. Create:
 - Students can create their own Profiles via signup and store their credentials in database
2. Read :
 - Students can have an overview of all the courses available and can enroll into courses that are available. And Have an overview of all of the courses they have enrolled. Also they can see the course materials of the courses they have enrolled in.
3. Update:
 - Students can update their Profile picture, and other information (Edit their profiles), and also reset or update their passwords.
4. Students have their own profile view, from where they can see their own Certificates of the courses they have completed and download them.
5. Search operation:
 - Students can search individual courses by course Id.

ER/EER Diagram



Schema Diagram

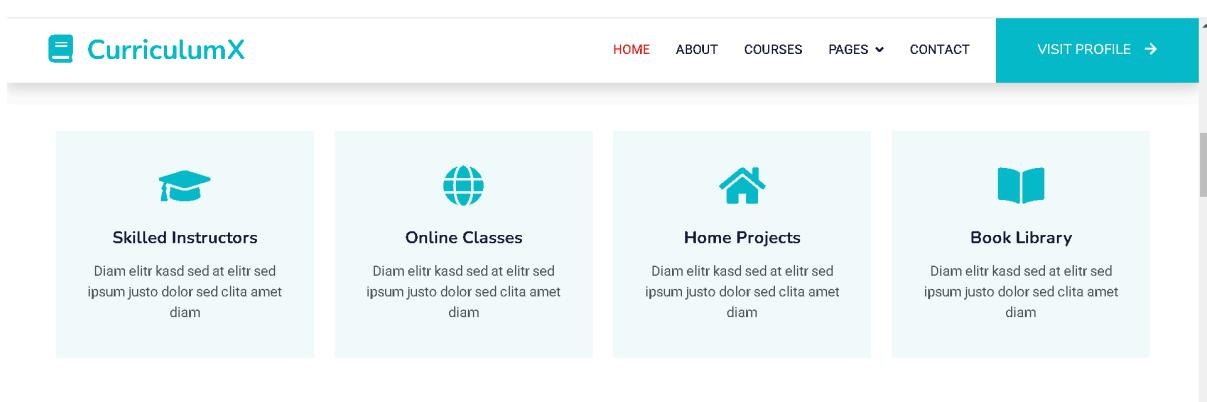
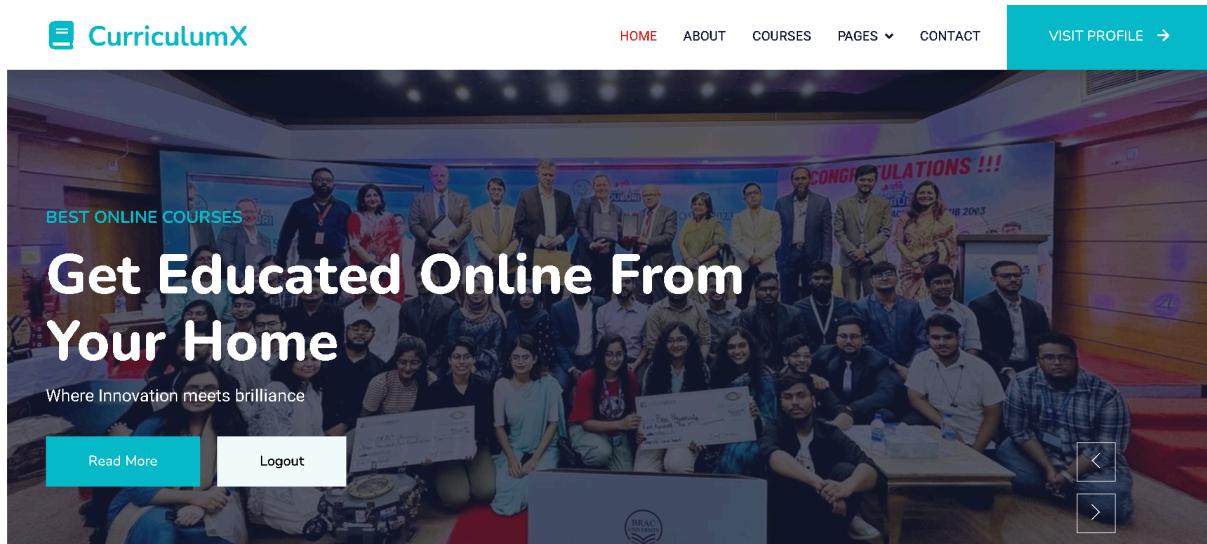


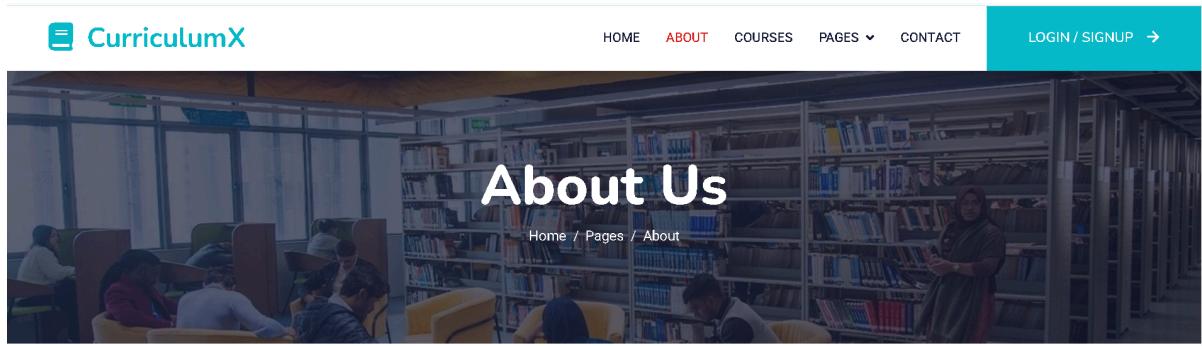
Frontend Development

Briefly discuss about Frontend Development and add Screenshots by mentioning Individual Contributions

Contribution of ID : 22201027, Name : AHSAN HABIB

In this project I have covered all the Frontend works, Including the **homepage**, **Courses page**, **about page**, **contact page**, and **dashboards (admin)** Using **HTML, CSS, Javascript, Bootstrap, SASS** for the Designing parts and used some dummy values to decorate the website. Adding some part of my designing below.





Get In Touch

The contact form is currently inactive. Get a functional and working contact form with Ajax & PHP in a few minutes. Just copy and paste the files, add a little code and you're done. [Download Now.](#)

- **Office**
123 Street, New York, USA
- **Mobile**
+012 345 67890
- **Email**
info@example.com



Admin

Students

Instructors

Courses

OverView

Back To Home

Logout

All Students (13)

Curriculum X

Search by id here...

Search



Backend Development

Briefly discuss about Backend Development and add Screenshots by mentioning Individual Contributions

Contribution of ID : 22201027, Name : AHSAN HABIB

1. Login:

- There are 3 roles for login and Signup (Admin, Instructor and Students) - each can select their role type and login into curriculumX (having Sessions (server side) and Cookies (client_side) to remember users)

Signup:

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- Admin can search individual students by their ids.



SIGN IN

logged out!

Username

Password

Role:

Admin

Login

[Sign Up](#) | [Home](#)

Last Name

Last name

Email

Email

Birth Day

mm/dd/yyyy



Username

User name

New Password

Password

Confirm Password

Confirm Password

Department: CSE



All Students (13)

Curriculum X

Search by id here...

Search



All Instructors (3) [Add Instructor](#)

#Id	Full name	Status	Block/ Unblock
1	Anika Tahsin	Active	Block
2	Arafat Biswas	Active	Block
3	Badhon Nandi	Active	Block

Add Instructor Profile

First Name

Last Name

Date of Birth



Email

Username

Auto Generate

Password

Auto Generate

Admin Students Instructors Courses OverView Back To Home Logout

All Courses (8)

#Id	Full name	Status	Action
1	Data Science Tutorial	Public	Private
3	Introduction to Computer Science	Public	Private
7	Advanced Mathematics	Public	Private
8	Introduction to Philosophy	Public	Private
13	Creative Writing	Public	Private

Prev 1 2 Next

Admin Students Instructors Courses OverView Back To Home Logout

Introduction to Data Science

Overview of Course 1 basics and fundamentals.

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[Watch Video](#)

Advanced Topics Data Science

In-depth exploration of advanced topics in Course 1.

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Accusantium nemo quasi voluptatem repudiandae delectus impedit suscipit sint a, doloremque officiis voluptatibus dolorem excepturi quae numquam sequi.

[Watch Video](#)

Data Science Overview

A brief introduction to the objectives of Course 1.

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Accusantium nemo quasi voluptatem repudiandae delectus impedit suscipit sint a, doloremque officiis voluptatibus dolorem excepturi quae numquam sequi.

[Watch Video](#)

Data Science Key Learnings

Key takeaways and learnings from Course 1.

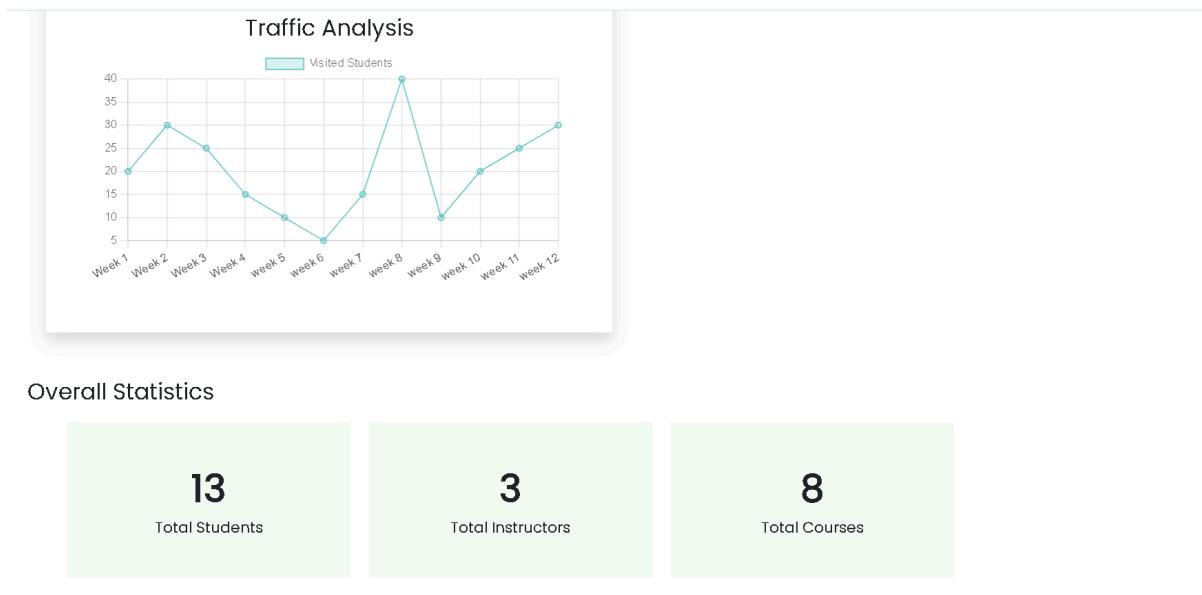
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[Watch Video](#)

Notice Board [Upload Announcement](#)

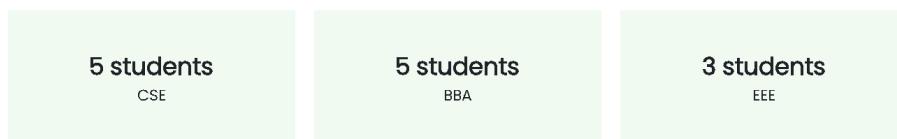
4_-_Lecture_4__Chapter5_.pdf

Fundamentals of
Database
Systems

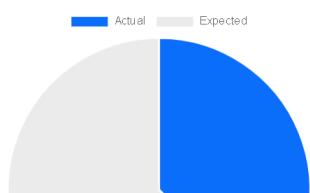


Departmental Enrollment Statistics

Top 3 Courses with Highest Enrollment



Expected vs Actual Student Registration This Week



Contribution of ID : 22301548, Name : AMIRA TANJUM CHOWDHURY

1. Instructor Dashboard

- Instructors can update their Profile (Including their profile picture and Information, Reset Their passwords)

2. Create and Upload Contents and Course materials:

- Instructors can Create new courses and the course contents.

3. Keep track of students and delete them
 - Instructors can see the individual students of each course and Delete individual students from their particular courses.
4. Upload materials
 - Instructors can upload (PDF, DOCS, PHOTOS, VIDEOS) for their individual courses as course materials
5. Set Privacy Level
 - Instructors can update the Privacy of their own courses from public to private.

The screenshot shows the CurriculumX profile page for a user named Anika. At the top, there's a navigation bar with links for 'Your Courses', 'Courses Materials', 'Create', and 'Back To Home'. On the right, there are 'Profile' and 'Logout' options. The main content area has a large photo of a woman (Anika) on the left. Below the photo, there's a file input field with 'Choose File' and 'No fil...hosen' placeholder text, and a blue 'Change Profile Picture' button. To the right of the photo is a section titled 'Account Information' containing fields for First name (Anika), Last name (Tahsin), Email (anikatahsin@bracu.ac.bd), Date of birth (1998-07-05), Joined at (2024-01-15), and Username (anika002). A 'View Profile' button is located at the bottom of this section.

The screenshot shows the CurriculumX 'Your Courses' page, which lists five courses. The table has columns for '#Id', 'Course Title', 'Status', and 'Action'. Each row contains a course title with a link, its status (all are 'Public'), and a yellow 'Private' button in the 'Action' column. The courses listed are: Data Science Tutorial, Introduction to Computer Science, PHP, Digital Marketing, and Automata and Computability.

#Id	Course Title	Status	Action
1	Data Science Tutorial	Public	<button>Private</button>
3	Introduction to Computer Science	Public	<button>Private</button>
19	PHP	Public	<button>Private</button>
22	Digital Marketing	Public	<button>Private</button>
23	Automata and Computability	Public	<button>Private</button>

 CurriculumX Your Courses Courses Materials Create Back To Home Profile Logout

All Courses Materials (2) [Upload Material](#)

File	Type	URL
	PDF	../Upload/CoursesMaterials/PDF/Material-1-PDF677ab44cb9f632.49639063.pdf
	PDF	../Upload/CoursesMaterials/PDF/Material-1-PDF67790fef/b27d4.71622816.pdf

 CurriculumX Your Courses Courses Materials Create Back To Home Profile Logout

Create a New Course

Course Title

Course Description

Cover Image

Choose File No file chosen

[Create Course](#)

Create Course Content

 CurriculumX Your Courses Courses Materials Create Back To Home Profile Logout



Choose File No fil...hosen

[Change Profile Picture](#)

anika002

[View Profile](#)

Edit Account Information

First name

Last name

Email

Date of birth

[Save](#)

Contribution of ID : 22301562, Name : RAIANA FERDOUS DISHA

1. Create Student Accounts:

- Students can create their own Profiles via signup and store their credentials in database

2. Read :

- Students can have an overview of all the courses available and can enroll into courses that are available. And Have an overview of all of the courses they have enrolled. Also they can see the course materials of the courses they have enrolled in.

3. Update Profile:

- Students can update their Profile picture, and other information (Edit their profiles), and also reset or update their passwords.

4. Course Certification and Download

Students have their own profile view, from where they can see their own Certificates of the courses they have completed and download them.

5. Search operation:

- Students can search individual courses by course Id.

The screenshot shows the CurriculumX website interface. At the top, there is a dark navigation bar with the CurriculumX logo, 'Courses', 'Enrolled Courses', 'Back To Home', 'Profile' (with a dropdown arrow), and 'Logout'. Below the navigation bar is a large blue header with the text 'Curriculum X'. Underneath the header is a search bar with the placeholder 'Search here...' and a blue 'Search' button. The main content area is titled 'All Courses (8)'. It displays two course cards. The first card is for 'Data Science Tutorial' and features a dark background with a white sun and mountain icon. The second card is for 'Introduction to Computer Science' and features a blue background with a laptop icon displaying the text 'INTRODUCTION TO COMPUTER SCIENCE'. Both cards include a brief description of the course content.

All Courses (8)



Data Science Tutorial

Data Science is about data gathering, analysis and decision-making. Data Science is about finding patterns in data, through analysis, and make future predictions. By using Data Science, companies are able to make better decisions (should we choose A or B) Predictive analysis (what will happen next?) Pattern discoveries (find pattern, or maybe hidden information in the data)

2024-01-15

[Enroll Course](#)



Introduction to Computer Science

This course covers the fundamental concepts of computer science. Students will learn about algorithms, data structures, software engineering, and computer architecture. Additionally, they will gain practical programming skills in languages such as Python and Java. Emphasis will be placed on problem-solving and critical thinking, providing a strong foundation for further studies in computer science and related fields. By the end of this course, students will be equipped with the essential knowledge and skills required to tackle more advanced topics and real-world challenges in computing.

2024-01-15

[Enroll Course](#)

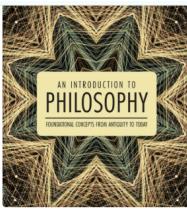


Advanced Mathematics

Dive into advanced mathematical concepts, including calculus, linear algebra, and differential equations. This course is designed to provide a deep understanding of mathematical theories and their applications in real-world scenarios. Students will explore topics such as multivariable calculus, eigenvalues, eigenvectors, and systems of linear equations. Ideal for those pursuing engineering, physics, or higher studies in mathematics, this course will enhance problem-solving abilities and analytical thinking. Through rigorous exercises and practical examples, students will develop a comprehensive understanding of advanced mathematical principles.

2024-02-01

[View Course](#)



Introduction to Philosophy

A comprehensive introduction to the major themes and concepts in philosophy. This course explores the works of great philosophers, ethical theories, metaphysics, and epistemology. Students will engage in critical thinking and discussions, enhancing their understanding of philosophical questions and ideas. Topics include the nature of reality, the existence of God, free will, and the foundation of morality. Through reading and analysis of philosophical texts, students will develop their reasoning and argumentation skills, preparing them for further philosophical inquiry or related fields.

2024-05-20

[View Course](#)



Creative Writing

Explore the art of creative writing through various genres such as fiction, poetry, and non-



PHP

PHP is a server scripting language, and a powerful tool for making dynamic and



Course Title: Data Science Tutorial

Course Description: Data Science is about data gathering, analysis and decision-making. Data Science is about finding patterns in data, through analysis, and make future predictions. By using Data Science, companies are able to make: Better decisions (should we choose A or B) Predictive analysis (what will happen next?) Pattern discoveries (find pattern, or maybe hidden information in the data)

Status: Public

Instructor: Anika Tahsin

Gsuite: anikatahsin@bracu.ac.bd

Created at: 2024-01-15

Certificate After Complete The Course

Go Back



All Enrolled Courses (6)



PHP

19

PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP. PHP is an amazing and popular language! It is powerful enough to be at the core of the biggest blogging system on the web (WordPress)! It is deep enough to run large social networks! It is also easy enough to be a beginner's first server side language!

2024-02-03

[View Course](#)

[Get Certificate](#)



Advanced Mathematics

7

Delve into advanced mathematical concepts, including calculus, linear algebra, and differential equations. This course is designed to provide a deep understanding of mathematical theories and their applications in real-world scenarios. Students will explore topics such as multivariable calculus, eigenvalues, eigenvectors, and systems of linear equations. Ideal for those pursuing engineering, physics, or higher studies in mathematics, this course will enhance problem-solving abilities and analytical thinking. Through rigorous exercises and practical examples, students will develop a comprehensive understanding of advanced mathematical principles.

Certificate of Achievement



This is to certify that

John Chena

has successfully completed the course

PHP

on this day, 2024-02-03

Certificate ID: #134537

Signature



Choose File No fil...hosen

[Change Profile Picture](#)

johnc

[View Profile](#)[Edit Profile](#)[Change Password](#)[Logout](#)

Account Information

First name: John
Last name: Chen
Email: johnChenawwe@gmail.com
Date of birth: 2000-05-06
Joined at: 2024-01-14
Student id: 1
Username: johnc

Certificates

1. Data Science Tutorial
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Source Code Repository

Upload source code to GitHub or Google Drive and share a publicly accessible link in this section of the report.

Source code: <https://github.com/ahsan027/CurriculumX.git>

Conclusion

CurriculumX embodies our unwavering commitment to making quality education accessible to all. By harnessing the power of technology and innovation, we have created a platform that removes financial barriers and empowers individuals to pursue their educational goals. As we continue to grow and evolve, our mission remains clear: to provide free, high-quality educational resources that foster a culture of lifelong learning. Join us on this journey, and together, let's shape a brighter future for learners everywhere.

References

1.<https://www.youtube.com/watch?v=lq3WN2UtguY&t=26s>

(For frontend part only)