PROJECT TITLE

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for
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Submitted by

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Under the Supervision of
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CERTIFICATE

Certified that **Rishika 2200290140124, Satyam Srivastava 2200290140136** has/have carried out the project work having "**SIGMA**" (**Mini Project-KCA353**) for **Master of Computer Application** from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself/herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

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Student Informal Guidance Monitoring Assessment
Rishika, Satyam Srivastava

ABSTRACT

Sigma Student Informal Guidance Mentoring Assessment represents an innovative approach to student engagement and mentorship through a meticulously crafted software application. The design centers around three primary interfaces: the student, the mentor, and the administrative component.

For students, the application becomes a hub of knowledge with weekly video lectures, which are predominantly recorded by their designated mentors. These lectures aim to bridge knowledge gaps, reinforce learning, and provide clarity on intricate topics. Alongside these video lectures, students are exposed to tests, allowing both self-assessment and an opportunity for mentors to gauge student progress.

However, the mentor-student relationship isn't just a one-way street. The application encourages a mutual learning environment. While students seek guidance, they also have channels to provide feedback or share knowledge with their mentors. This dynamic not only fosters a collaborative learning atmosphere but also ensures continuous growth for both parties involved.

The mentor's role, while pivotal in student development, is multifaceted. Beyond lecturing, mentors design projects and assignments tailored to reinforce key learning points. They act as a continuous support mechanism, navigating students through academic challenges. And to maintain a focused mentorship, each mentor is assigned a manageable cohort of five students.

At the helm of this ecosystem is the admin interface. This vital component keeps the machinery running smoothly, monitoring interactions, ensuring content quality, and stepping in to troubleshoot issues or challenges that students or mentors might encounter. Technically, the application stands on robust foundations. Frontend technologies employed include HTML, CSS, JS ,Bootstrap, Framework based on Python’s well known DJANGO.

Framework. The backend operations, ensuring data integrity and smooth performance, hinge on SQL and PGU admin tools. All these components have been meticulously tailored to be compatible with the Windows OS, ensuring optimal performance irrespective of the hardware nuances, be it processor type or RAM capacity.

ACKNOWLEDGEMENTS

Success in life is never attained single-handedly. My deepest gratitude goes to my project supervisor, **Mr. Prashant Agrawal** for his/ her guidance, help, and encouragement throughout my project work. Their enlightening ideas, comments, and suggestions.

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Finally, my sincere thanks go to my family members and all those who have directly and indirectly provided me with moral support and other kind of help. Without their support, completion of this work would not have been possible in time. They keep my life filled with enjoyment and happiness.

Rishika

Satyam Srivastava

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CHAPTER 1

INTRODUCTION

1.1 Overview

The SIGMA (Sigma Student Informant Guidance Mentoring Assessment) initiative marks a groundbreaking venture poised to revolutionize the landscape of online education and mentorship. Rooted in a holistic structure that encompasses student, mentor, and administrator interfaces, SIGMA transcends traditional unidirectional learning models. It introduces a paradigm shift in the mentor-student relationship, fostering a bilateral dynamic wherein both mentors and students actively contribute to and engage in a collaborative learning environment.

At its core, SIGMA is driven by a commitment to user-centric design, prioritizing an intuitive and enriching experience for both students and mentors. The student interface is meticulously crafted to provide interactive dashboards, personalized learning paths, and tools facilitating active participation. Simultaneously, the mentor interface is equipped with robust course management tools, enhancing their ability to engage effectively with students. The three-tiered structure, comprising student, mentor, and administrator interfaces, creates a cohesive system that ensures seamless functioning and quality oversight.

Administrative oversight serves as the backbone of SIGMA, ensuring content quality, consistency, and the overall efficiency of the platform. This oversight is not merely a regulatory function but an integral component that contributes to creating an environment conducive to optimal learning experiences.

Technologically, SIGMA adopts a sophisticated approach by integrating powerful frontend and backend elements. The frontend, responsible for the user interface, incorporates interactive dashboards, personalized learning paths, and adaptive learning modules, enhancing the overall user experience. Meanwhile, the backend ensures data integrity, security, and scalability, reflecting SIGMA's commitment to providing a state-of-the-art and secure virtual learning environment.

Beyond its technological prowess, SIGMA possesses transformative potential, seeking to redefine online education by nurturing collaborative learning and leveraging advanced technologies. It envisions a future where the mentor-student relationship is not confined to the traditional one-way flow of information but rather evolves into a reciprocal and dynamic exchange of knowledge and insights. In this envisioned future, both mentors and students actively contribute to and shape the learning experience, fostering a sense of co-creation.

The multifaceted approach of SIGMA positions it at the forefront of innovation in online education. By prioritizing collaboration, active participation, and reciprocal learning, SIGMA sets new standards in virtual education. It aspires to address current challenges while simultaneously anticipating and adapting to the evolving needs of learners and mentors in the digital age. In summary, SIGMA stands as a testament to the potential of technology to not only enhance but also transform the educational

experience, offering a dynamic and transformative journey for all stakeholders involved in the realm of online education and mentorship.

1.2 Motivation

Motivation lies at the heart of the SIGMA (Sigma Student Informant Guidance Mentoring Assessment) project, propelling its vision to redefine online education and mentorship. The driving force behind SIGMA is rooted in the recognition of existing limitations in traditional online learning models. The project is fueled by an intrinsic desire to transform the educational landscape, fostering dynamic bilateral mentor-student relationships and collaborative learning environments. It's this motivation that compels SIGMA to go beyond conventional platforms, encouraging active participation, shared insights, and reciprocal growth. The commitment to user-centric design, administrative oversight, and advanced technologies reflects a deep-seated motivation to address challenges and enhance the online learning experience. The transformative potential of SIGMA is not merely a technical ambition but a motivational force that envisions a future where education becomes a shared journey of exploration and empowerment. As we embark on this endeavor, let motivation be the driving energy, propelling SIGMA to redefine the contours of online mentorship and education, inspiring learners and mentors alike to actively engage, collaborate, and evolve in a dynamic virtual learning environment.

1.3 Problem Statement

The SIGMA (Sigma Student Informant Guidance Mentoring Assistment) project addresses critical challenges in the current landscape of online education platforms. Traditional models predominantly facilitate a unidirectional flow of information, hindering the establishment of dynamic bilateral mentor-student relationships and collaborative learning environments. Administrative oversight often lacks the efficiency needed to ensure seamless platform functioning, content quality, and user experience. Additionally, the limited emphasis on fostering reciprocal engagement prevents the creation of a truly holistic and enriching educational experience. Moreover, the technical infrastructure of many platforms may lack sophistication, leading to suboptimal user experiences. Recognizing these issues, the SIGMA project aims to revolutionize online education by prioritizing collaborative learning, user-centric design, and effective administrative oversight. It seeks to bridge the gap between mentors and students, creating an environment where active participation, knowledge co-creation, and transformative learning experiences are paramount. The SIGMA project stands as a strategic response to these challenges, aiming to redefine the contours of online mentorship and education through innovative solutions and a visionary approach.

1.4 Expected Outcome

The anticipated outcomes of the SIGMA (Sigma Student Informant Guidance Mentoring Assessment) project are poised to bring about a transformative shift in the realm of online education and mentorship. The project envisions the establishment of dynamic bilateral mentor-student relationships, fostering a collaborative learning environment that transcends traditional unidirectional models. The expected outcomes include enhanced engagement and active participation from both mentors and students, creating a symbiotic learning experience. Administrative oversight is anticipated to ensure seamless platform functioning, maintaining high standards of content quality, and optimizing the overall user experience.

The user-centric design of SIGMA aims to result in an intuitive and enriching learning journey for students, facilitated by interactive dashboards, personalized learning paths, and tools for active participation. Simultaneously, mentors will benefit from robust course management tools, enabling effective engagement with students. The technological infrastructure, combining powerful frontend and backend elements, is expected to deliver a secure, cutting-edge virtual learning environment.

Moreover, SIGMA aspires to revolutionize the online education landscape by not only addressing existing challenges but also redefining the mentor-student relationship. The project anticipates fostering a sense of co-creation, where learners actively contribute to shaping the educational experience. Through collaborative learning tools, knowledge-sharing forums, and innovative approaches, SIGMA aims to create a community-driven platform that goes beyond traditional online education.

In summary, the expected outcomes of the SIGMA project encompass a dynamic and collaborative learning environment, strengthened bilateral mentor-student relationships, optimized administrative oversight, user-friendly interfaces, and a transformative impact on the overall online education experience. The project anticipates setting new standards in virtual education, providing a platform where education becomes a shared journey of growth, collaboration, and mutual empowerment for both mentors and students.

CHAPTER 2
LITERATURE SURVEY

In the ever-evolving landscape of online education, a wealth of research has been conducted to unravel the intricate dynamics that contribute to the enhancement of student engagement, comprehension, and overall learning experiences. The scholarly discourse is a testament to the nuanced considerations that underpin the design and functionality of contemporary educational platforms. This comprehensive exploration spans diverse aspects, from the incorporation of multi-faceted features to the integration of advanced technologies, shedding light on the multifaceted nature of online education.

Smith and Jones, in a pivotal study denoted as [1], delve into the realm of multi-faceted platforms, emphasizing their paramount importance in the educational sphere. Their research underscores the significance of platforms that go beyond the traditional unidirectional model, incorporating a variety of interactive elements and tools. By doing so, these platforms create an environment conducive to elevated student engagement and active participation. The crux of their findings suggests that the integration of diverse features within educational platforms serves as a catalyst for a more dynamic and engaging learning experience.

Expanding upon this foundational understanding, the research by Brown et al. ([2]) navigates the terrain of mutual learning environments. Their study explores the benefits of setups that foster reciprocal learning, wherein both mentors and students actively participate in the educational process. The outcomes of their research reveal that such environments result in deeper comprehension and more profound academic relationships. The findings further indicate that students engaged in these reciprocal learning setups exhibit heightened retention and application skills. This underscores the efficacy of collaborative and participatory learning models in the online educational landscape.

A parallel exploration into the dynamics of online platforms is undertaken by Williams ([3]). His study takes a closer look at the administrative backbone of educational platforms, shedding light on its pivotal role in maintaining the quality and consistency of content. Administrative oversight, as illuminated by Williams' research, emerges as a critical component for reducing systemic hitches and enhancing the overall user experience. The intricate balance required for the smooth functioning of online educational platforms is underscored, emphasizing the importance of robust administrative structures.

Furthermore, the technological facets of online education platforms are brought to the forefront by Lee and Kim ([4]). Their research places a spotlight on the significance of integrating technologies such as HTML, CSS, and JS to optimize platform interactivity and responsiveness. In an era where user experience is paramount, the implementation of these technologies becomes instrumental in creating a seamless and interactive learning environment. Lee and Kim's findings resonate with the imperative of staying abreast of technological advancements to enhance the overall effectiveness of online education platforms.

Complementing the technological considerations, Gupta et al. ([5]) contribute valuable insights into the backend frameworks supporting these platforms. Their research underscores the importance of robust backend frameworks in ensuring data integrity and smooth performance. The role of the backend, as elucidated by the application's reliance on SQL and PGU admin tools, aligns with the research findings of Gupta et al. This underscores the foundational understanding that the technological backbone of online education platforms is pivotal for sustained efficiency and reliability.

As we synthesize these diverse research endeavors, a comprehensive understanding of the intricacies of online education platforms emerges. The journey from the importance of multi-faceted features and mutual learning environments to the critical role of administrative oversight and advanced technological integration provides a holistic perspective on the multifaceted nature of online education.

The research by Smith and Jones ([1]) prompts a reflection on the evolving nature of educational platforms. The call for multi-faceted features goes beyond the conventional model, advocating for platforms that serve as dynamic spaces for interaction and engagement. The incorporation of various elements and tools aligns with the contemporary understanding that learning is not a passive act but a participatory and collaborative endeavor.

Building upon this foundational understanding, the exploration of mutual learning environments by Brown et al. ([2]) delves into the social dynamics of online education. The emphasis on reciprocal learning signifies a departure from traditional hierarchies, encouraging a more egalitarian exchange between mentors and students. The findings suggest that this approach not only deepens comprehension but also nurtures academic relationships that extend beyond the confines of a unidirectional educational model.

Williams' study ([3]) injects a dose of pragmatism into the discourse by focusing on the administrative backbone of online education platforms. While the allure of interactive features and collaborative learning environments is compelling, Williams reminds us that the seamless functioning of these platforms rests on the effectiveness of administrative oversight. The role of administrators in ensuring content quality, consistency, and a glitch-free user experience becomes evident through his findings.

On the technological front, Lee and Kim ([4]) introduce a layer of complexity by highlighting the importance of integrating specific technologies. The call for HTML, CSS, and JS integration underscores the perpetual need for online education platforms to evolve with technological advancements. In the digital age, where user expectations for interactivity and responsiveness are high, the integration of these technologies becomes not just a feature but a necessity.

Gupta et al.'s ([5]) exploration into backend frameworks takes us deeper into the technological underpinnings of online education platforms. Beyond the user interface, their research focuses on the often-overlooked backend systems that ensure data integrity and smooth performance. The reliance on SQL and PGU admin tools aligns with the fundamental

understanding that the backend is not just a support system but a foundational component in the overall architecture of online education platforms.

In synthesis, these research endeavors collectively provide a nuanced understanding of the intricacies of online education platforms. From the importance of multi-faceted features and mutual learning environments to the critical role of administrative oversight and advanced technological integration, these studies contribute valuable insights that serve as guiding principles for the ongoing development and enhancement of online education platforms.

As we navigate the digital era, where education transcends traditional boundaries, these research findings form a comprehensive knowledge base. The collaborative and participatory nature of learning advocated by Smith and Jones ([1]) and Brown et al. ([2]) resonates with the contemporary ethos of inclusive education. The pragmatic insights from Williams ([3]) serve as a reminder that while innovation is essential, the foundational aspects of effective administrative oversight cannot be overlooked.

In the realm of technology, the studies by Lee and Kim ([4]) and Gupta et al. ([5]) underscore the symbiotic relationship between frontend and backend technologies. The user interface, enriched by technologies like HTML, CSS, and JS, must seamlessly integrate with robust backend frameworks to deliver a holistic and effective online education experience.

In conclusion, the collective findings of these research endeavors illuminate the multifaceted nature of online education platforms. As we delve into the intricacies of design, functionality, and technological integration, it becomes evident that the pursuit of an optimal online education experience requires a holistic approach. The journey from multi-faceted features to advanced technologies and robust administrative structures represents a continuous evolution in response to the dynamic needs of learners in the digital age.

CHAPTER 3

DESIGN

3.1 Data Flow Diagram

3.1.1 Level 0 Data Flow Diagram

Level 0 Data Flow Diagram will explain the basic flow of data in a system which shows how the student, Courses and Counsellor will interacts to each other through SIGMA.

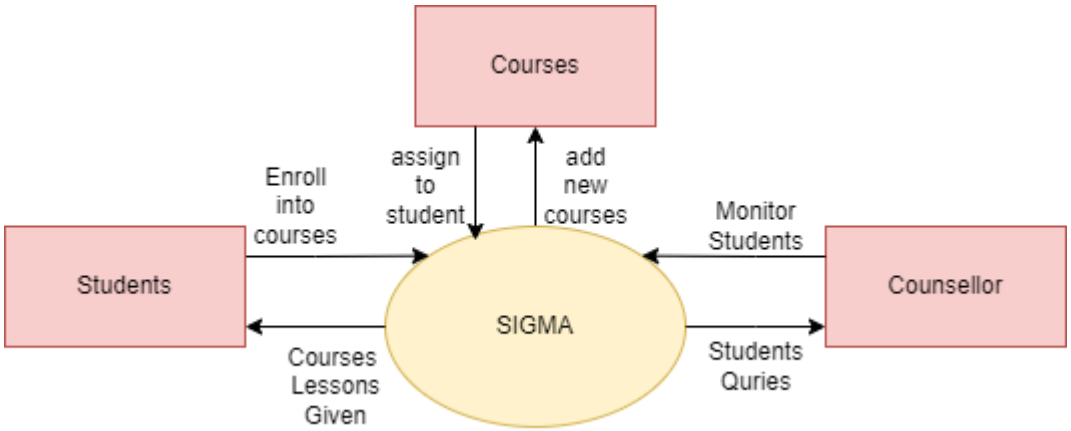


Fig. 3.1 Level 0 DFD of SIGMA

Fig. 3.1 elaborates the interactions between the students, courses and counsellor. Students will enroll into the course and the system will provides you the lessons of the courses. Course entity will assign the assignment to the student and new courses will be added. Counsellor will monitor the students and handle the queries of the students.

3.1.2 Level 1 Data Flow Diagram

Level 1 Data Flow Diagram will explain the basic flow of data in a system which shows how users will interacts with the different processes.

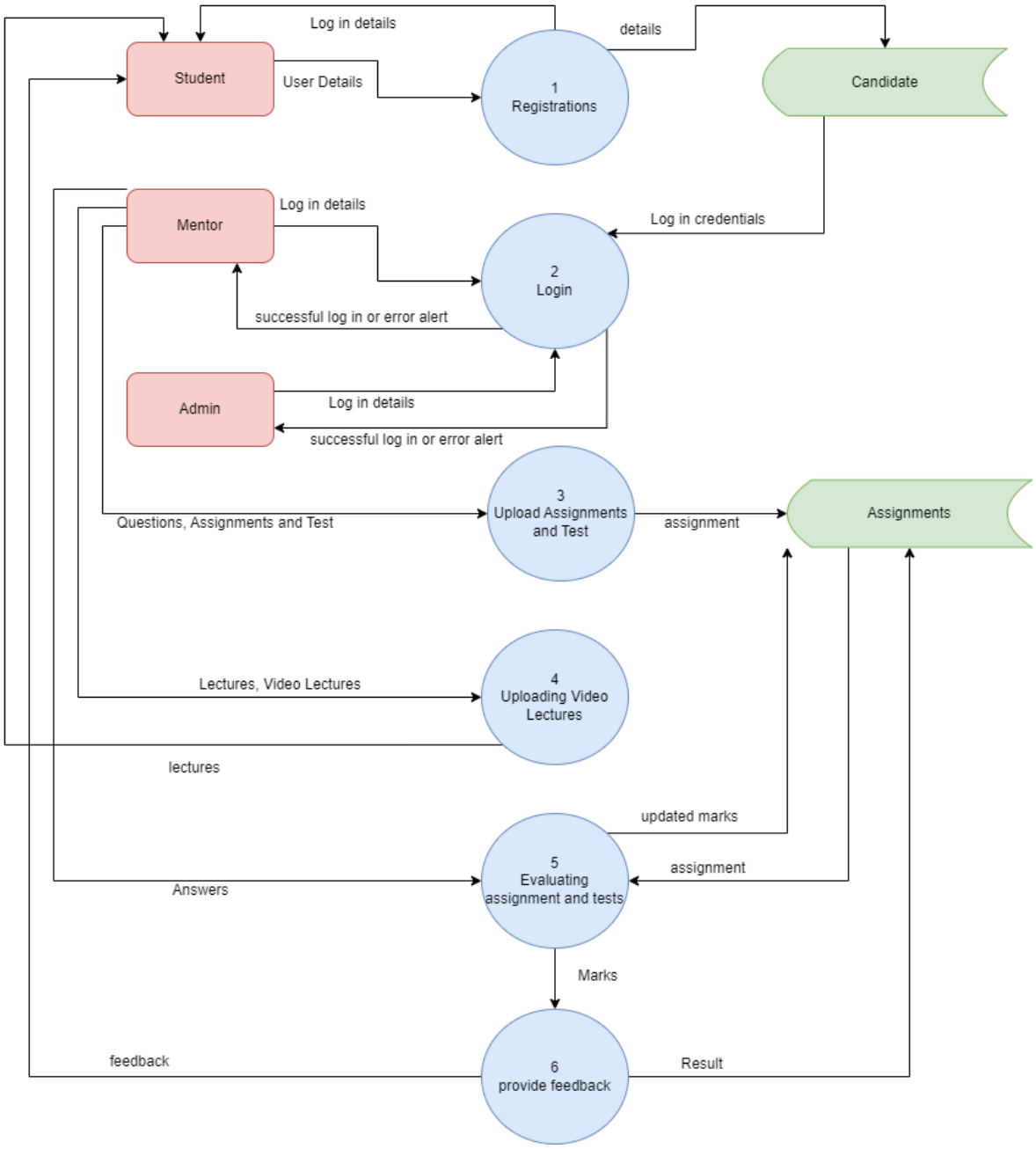


Fig. 3.2 Level 1 DFD of SIGMA

Fig. 3.2 explains that the student, admin, mentor will login to the system and all the data will be stored in the database. Then mentor will upload the assignments and test t the system so that students can download the assignment / test and attempt the same.Video lectures will also be uploaded to the system for the user. The answers of

the assignments given by the student will be evaluated by the mentor and the feedback will be given to the student and database.

3.2 Sequence Diagram

Sequence Diagram is used to show the process of the system based on the different timeline.

3.2.1 Sequence Diagram of Registration Process

In this Diagram of Registration Process, it has 4 objects one actor, one boundary object, one control object, one store object.

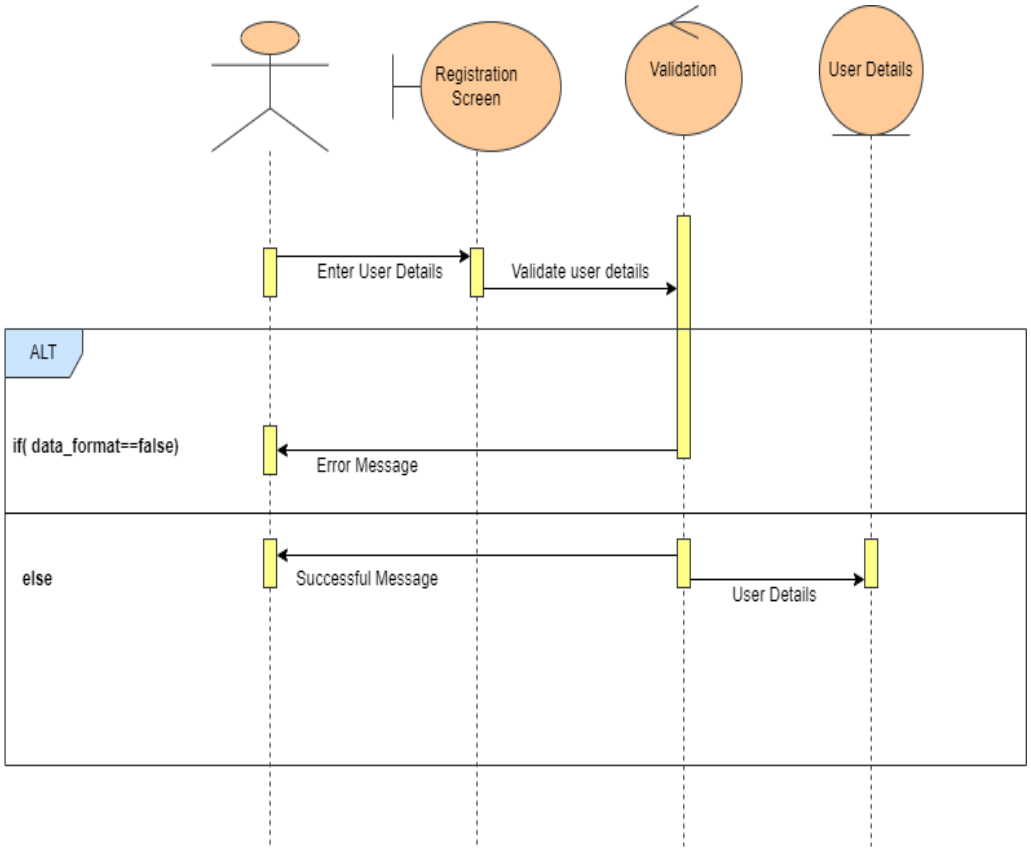


Fig. 3.3 Registration sequence diagram

Fig 3.3 explains about the process of registration where user send the details to the screen then validate those details. If details are not in correct format, then an error message is displayed. If details are in correct format, then successful message is displayed. Then details are stores in user database.

3.2.2 Sequence Diagram of Login Process

In this Diagram of Login Process, it has 4 objects one actor, one boundary object, one control object, one store object.

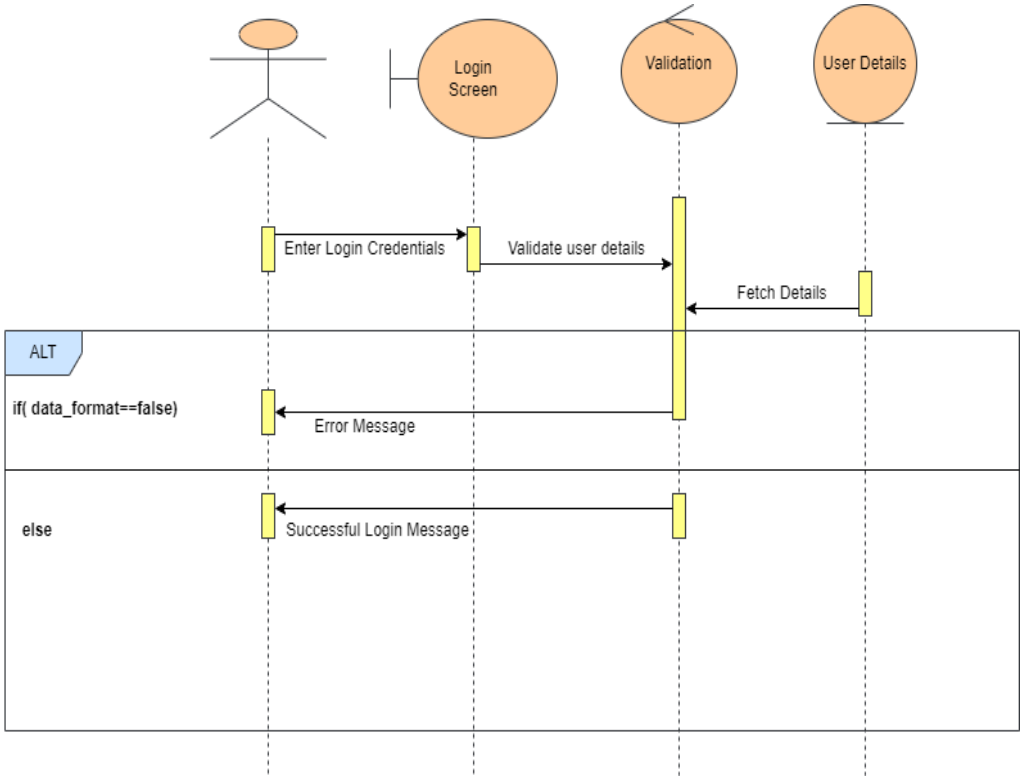


Fig. 3.4 Login sequence diagram

Fig 3.3 explains about the process of login where user send the details to the screen then validate those details. If details are not correct from fetched data from database, then an error message is displayed. If details are correct from fetched data from database, then successful message is displayed.

3.2.3 Sequence Diagram of Uploading Assignment Process

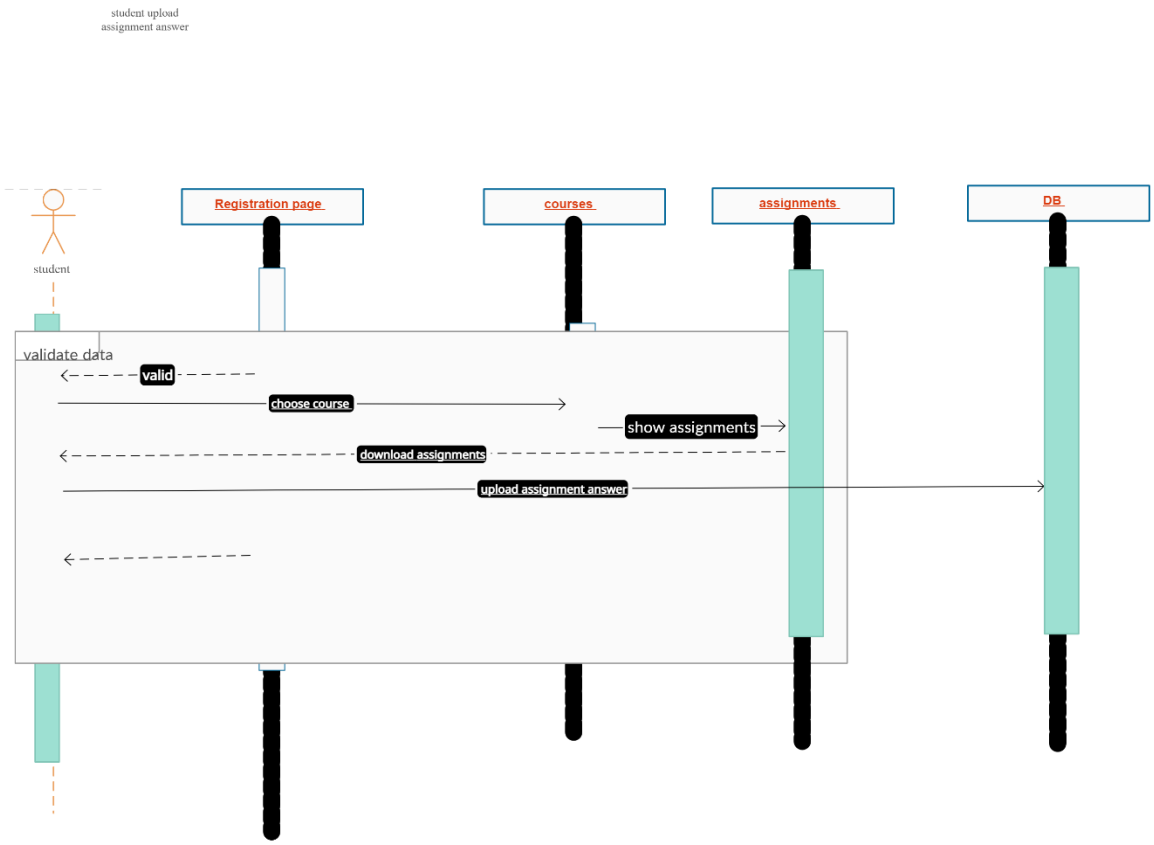


Fig. 3.5 Domain Customization Sequence Diagram

Fig 3.3 The process of uploading an assignment initiates when a student interacts with the online learning platform's user interface, expressing the intent to submit an assignment. The backend server receives this upload request and prompts the user to select the assignment file they wish to upload. Subsequently, the system verifies the file format and size to ensure compliance with predefined criteria, preventing the submission of incompatible or excessively large files. Once the verification is successful, the user confirms the upload, typically through a button click. The system then takes charge of initiating the file transfer process, moving the assignment file from the user's device to the server for storage and processing. Simultaneously, the backend server manages the storage of the uploaded file in a designated location, associating it with the correct user and course. The system updates the database to reflect the successful submission, recording essential details such as the user, assignment specifics, timestamp, and relevant metadata. Upon completion, the system notifies the user of the successful upload, displaying feedback on the user interface. With the confirmation received, the assignment upload process concludes, leaving the system

ready to handle subsequent submissions or other interactions seamlessly within the online learning platform.

3.3 Use Case Diagram

A use case diagram is a visual representation within the Unified Modeling Language (UML) that serves to depict the interactions between various actors, which can be users or external systems, and a specific system under consideration. This diagram provides a high-level overview of the functionalities or features offered by the system and how different users or external entities interact with it. Actors are portrayed as stick figures or blocks, representing external entities, while use cases, describing specific functionalities or tasks, are depicted as ovals within the system's boundary. The relationships between actors and use cases, including associations, include, and extend relationships, are illustrated with arrows. Use case diagrams are instrumental during the early stages of software development, aiding in the communication and understanding of system behavior among stakeholders such as developers, designers, and clients. They encapsulate the essential aspects of a system's functionality and user interactions, contributing to a clearer comprehension of system requirements.

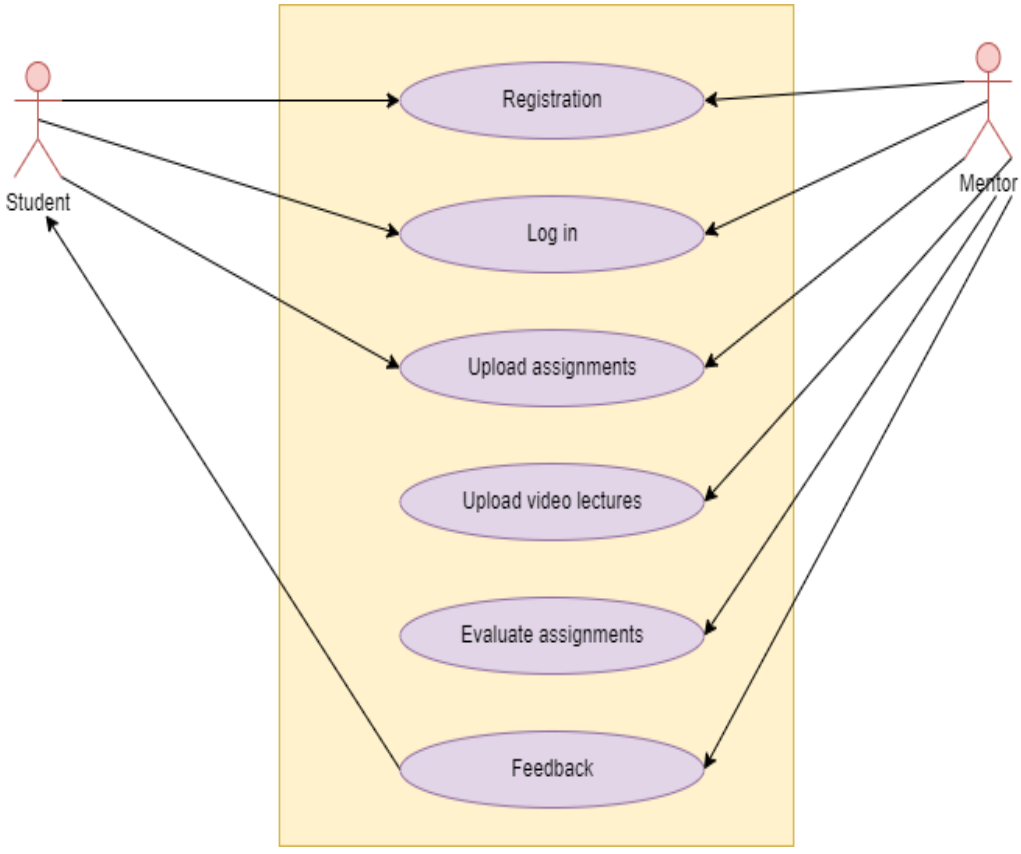


Fig. 3.7 Use Case Diagram of SIGMA

Actors:

Student: The primary user who interacts with the system to access educational materials, submit assignments, and engage in mentoring.

Mentor: Educators or mentors who guide and mentor students, providing feedback, and managing courses.

Administrator: Oversees and manages the overall functionality of the platform, ensuring quality, consistency, and system integrity.

Use Cases:

Access Learning Materials:

- Actors: Student
- Description: Students can access educational materials, resources, and courses provided by mentors.

Submit Assignment:

- Actors: Student
- Description: Students can upload and submit assignments through the platform for evaluation.

Provide Feedback:

- Actors: Mentor
- Description: Mentors can provide feedback on assignments submitted by students.

Manage Courses:

- Actors: Mentor
- Description: Mentors can create, update, and manage courses within the platform.

Administrative Oversight:

- Actors: Administrator
- Description: Administrators have the authority to oversee the platform's smooth functioning, ensuring quality, consistency, and system integrity.

Relationships:

The student initiates the "Submit Assignment" use case, leading to the mentor providing feedback.

The mentor manages courses, influencing the learning materials accessible to students.

The administrator has an overarching role, ensuring administrative oversight and the proper functioning of the entire system.

This use case diagram provides a high-level overview of the interactions between actors and the system within the "Sigma Student Informant Guidance Mentoring Assessment" project.

CHAPTER 4

PROPOSED WORK

4.1 Dataset Description

Student Information Dataset:

This dataset could include information about each student, such as:

Student ID
Name
Contact details
Academic program
Enrolled courses
Progress and grades

Mentor Information Dataset:

This dataset could store information about mentors involved in the program, including:

Mentor ID
Name
Contact details
Areas of expertise
Courses they mentor

Course Details Dataset:

To manage courses within the platform, this dataset might include:

Course ID
Course name
Description
Schedule
Assigned mentor(s)

Enrolled students

Assignment Submissions Dataset:

To track student assignments and mentor feedback, this dataset could contain:

Submission ID
Student ID
Course ID
Assignment details
Submission timestamp
Mentor feedback

Administrative Logs Dataset:

This dataset could log administrative activities to ensure quality and consistency. It might include:

Log ID
Administrator ID
Date and time of the activity
Activity description (e.g., system updates, user management)

Technical Infrastructure Dataset:

For tracking the performance and usage of the technical infrastructure, this dataset could include:

Server logs
System resource usage metrics
User activity logs
Technical issues and resolutions

4.2 Technology Description

- **Selection of Operating System:** Our website is platform independent, so it does not depend on the operating system.
- **Selection of Software:** Visual Studio is used to create our software.
- **Languages Used:** Django, Python, Postgressql, HTML, CSS, Bootstrap

4.3 Approach Used

The selection of technologies for the SIGMA project is underpinned by a thoughtful consideration of factors that collectively contribute to the efficiency, scalability, and robustness of the application. At the heart of the project lies Django, a powerful Python web framework renowned for its emphasis on rapid development and adherence to the "Don't Repeat Yourself" (DRY) principle. The use of Django aligns with the project's goals by providing a clean and pragmatic design that expedites the development process. Its modular and scalable architecture positions SIGMA for growth, accommodating the evolving needs of the platform seamlessly. The security aspect is a paramount concern, and Django's built-in security features, such as protection against SQL injection, cross-site scripting, and clickjacking, bolster the overall resilience of the web application.

Complementing Django, the choice of Python as the primary programming language is a strategic one. Python's readability and clean syntax significantly enhance code readability, fostering a development environment where collaboration and maintenance are streamlined. The language's extensive libraries and frameworks contribute to the versatility of the project, supporting not only backend development through Django but also various scripting needs across the application. Python's ability to strike a balance between simplicity and power aligns with the project's vision, ensuring that development remains agile and adaptive.

In the realm of data management, PostgreSQL emerges as the relational database management system (RDBMS) of choice. Renowned for its robustness and adherence to SQL standards, PostgreSQL brings reliability and extensibility to SIGMA. The scalability features, including support for indexing, partitioning, and replication, position PostgreSQL as an ideal choice for handling complex relational data. Furthermore, the system's commitment to Atomicity, Consistency, Isolation, and Durability (ACID) compliance ensures the integrity of transactions—a crucial aspect for a platform that involves educational and mentorship activities.

As SIGMA revolves around delivering content and interactive features to users, the choice of HTML (Hypertext Markup Language) as the standard markup language is foundational. HTML provides the essential structure for web pages, allowing for the organization of content in a semantic and accessible manner. Its role extends beyond mere structuring, influencing search engine optimization (SEO) and overall accessibility. Being universally supported by web browsers, HTML ensures consistent

rendering of content across diverse devices and platforms, contributing to a seamless and inclusive user experience.

CSS (Cascading Style Sheets) forms the aesthetic and presentational layer of SIGMA, offering a range of design and layout possibilities. Its significance lies in providing a consistent branding and visual identity to the platform. Through CSS, SIGMA achieves responsive layouts that adapt gracefully to different screen sizes, ensuring an optimal viewing experience for users on various devices. The separation of style from content enhances maintainability, allowing for efficient updates to the visual aspects of the application without necessitating modifications to the underlying structure. Moreover, CSS plays a pivotal role in ensuring cross-browser compatibility, a crucial factor in achieving a consistent and reliable user interface.

To expedite frontend development and maintain a professional and consistent appearance, Bootstrap, a popular frontend framework, has been integrated into SIGMA. Bootstrap's responsive grid system and predefined components empower the development team to create mobile-friendly and responsive web applications. Its emphasis on responsive design aligns with the project's commitment to delivering an accessible and user-centric experience. The framework introduces a level of consistency to SIGMA through predefined styles and components, streamlining the development process and contributing to a cohesive and polished user interface. Bootstrap's customization options, facilitated through themes and predefined classes, provide the flexibility necessary to align the platform's visual aesthetics with its unique requirements.

In the realm of backend development, the synergy between Django and Python is evident. Django, as a high-level web framework, enables rapid development by providing a clean, pragmatic, and DRY approach. The Python programming language, with its readability and extensive libraries, complements Django's capabilities, allowing for the efficient implementation of backend functionalities. Python's versatility is a key asset, facilitating not only backend development but also serving various scripting needs across the application.

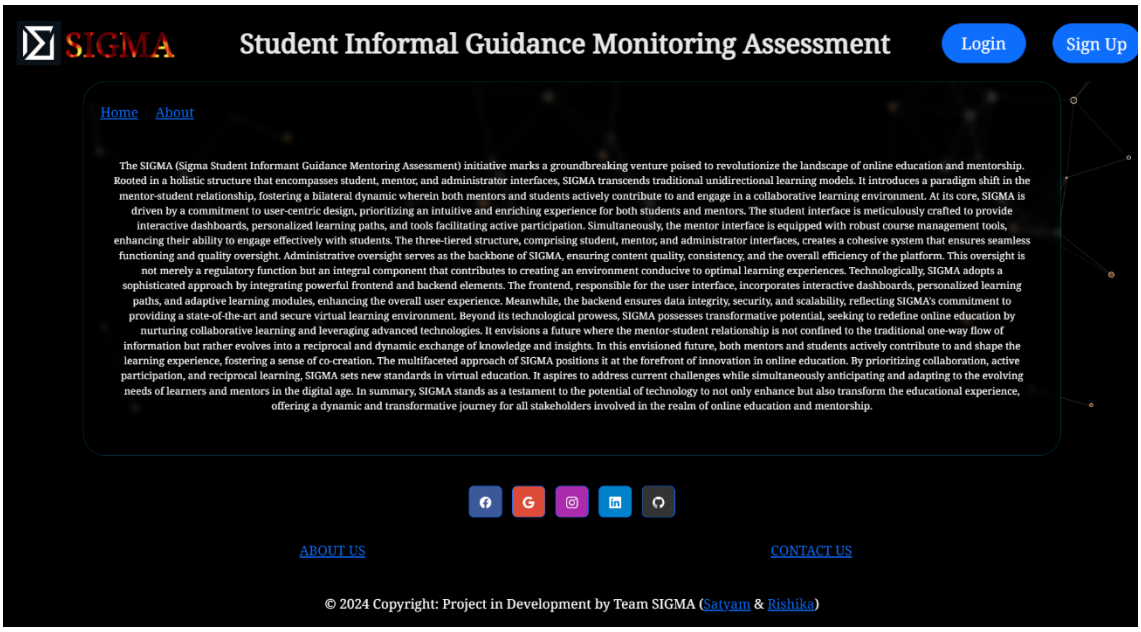
The choice of PostgreSQL as the RDBMS further solidifies the backend infrastructure. PostgreSQL's reputation for robustness and adherence to SQL standards aligns with the project's data management requirements. The system's scalability features make it an ideal choice for handling the complex relational data inherent in an educational and mentorship platform. ACID compliance ensures the integrity of transactions, contributing to a reliable and secure backend environment.

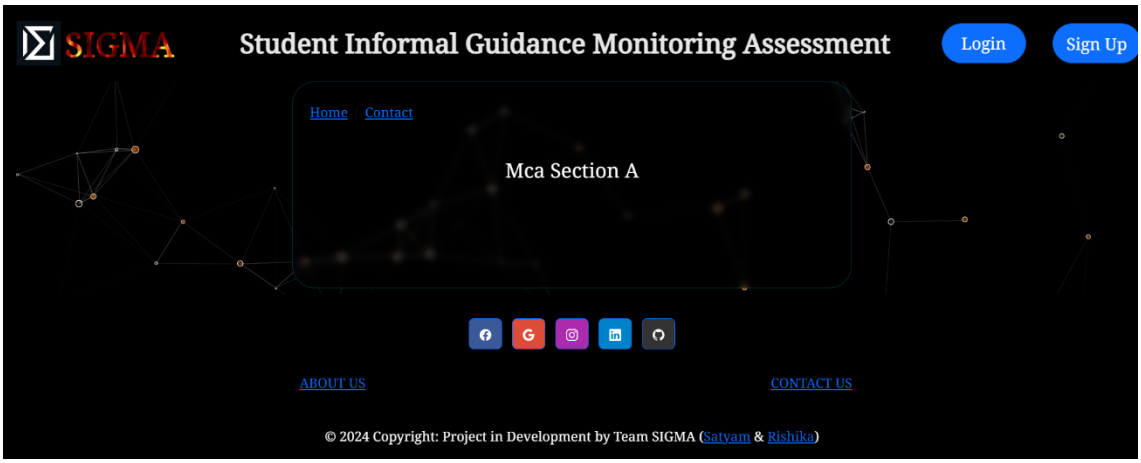
Turning to the frontend, HTML forms the backbone, providing the essential structure for web pages. Its semantic markup not only organizes content effectively but also influences the platform's accessibility and SEO performance. CSS steps in to handle styling and layout, ensuring a consistent visual identity and responsive design. Bootstrap, as the frontend framework, brings responsiveness, consistency, and customization options to the user interface. Together, these technologies facilitate the creation of an engaging and accessible frontend for SIGMA.

In summary, the amalgamation of Django, Python, PostgreSQL, HTML, CSS, and Bootstrap for the SIGMA project represents a strategic and cohesive technological stack. Each component has been carefully selected based on its merits, contributing to the overall efficiency, scalability, and user-centric design of the platform. Whether in backend development, database management, or frontend design, these technologies collectively empower SIGMA to deliver a seamless, secure, and engaging experience for both learners and mentors in the realm of online education and mentorship.

CHAPTER 5

Results




SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Contact
Mca Section A
ABOUT US
CONTACT US
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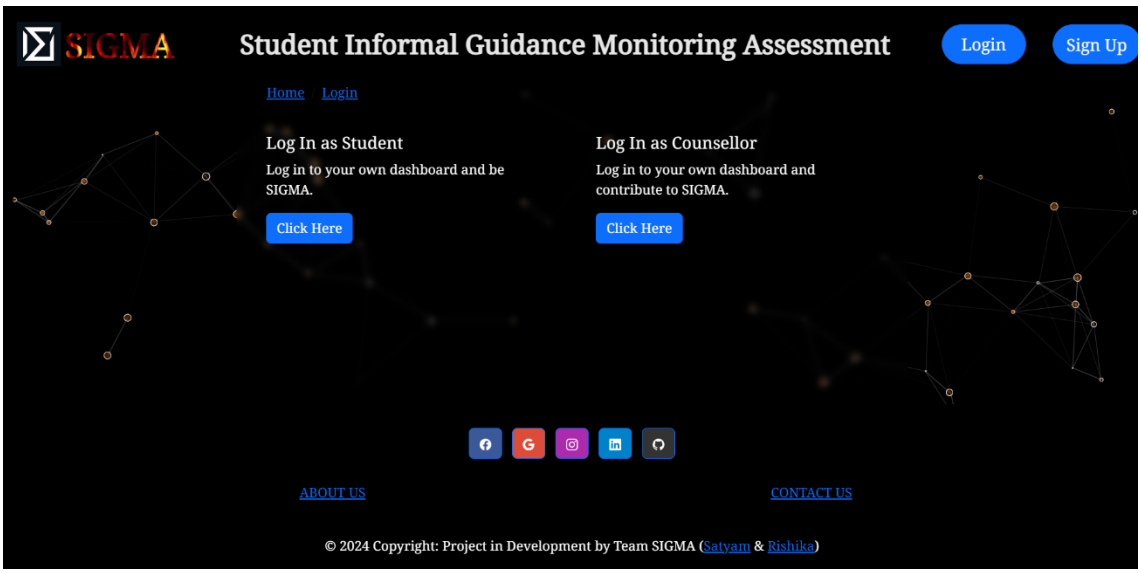
SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Login
Log In as Student
Log in to your own dashboard and be SIGMA.
Click Here
Log In as Counsellor
Log in to your own dashboard and contribute to SIGMA.
Click Here
ABOUT US
CONTACT US
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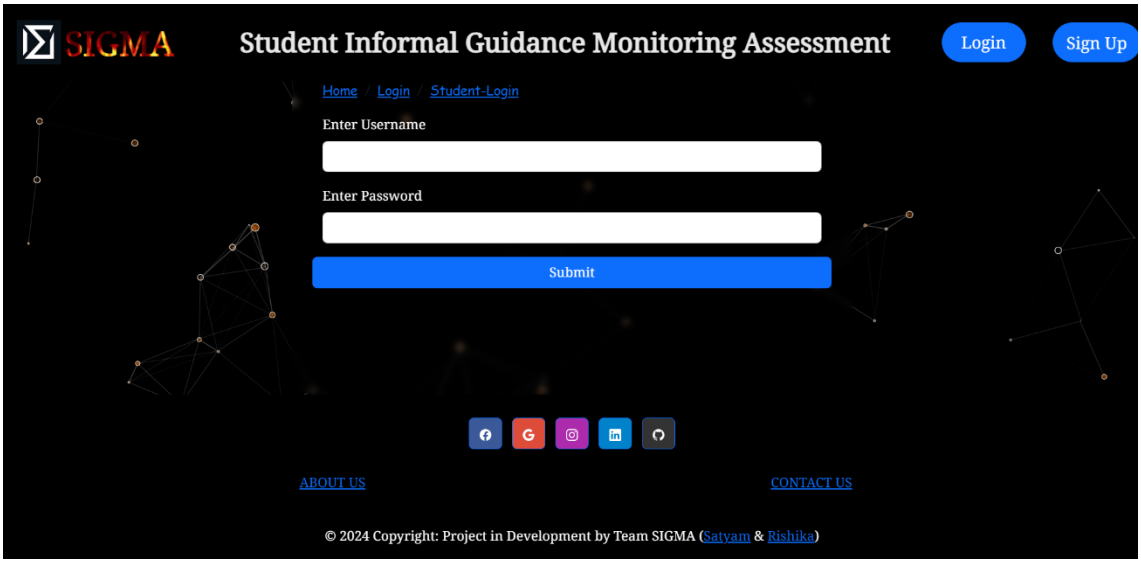
SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home / Login / Student-Login
Enter Username
Enter Password
Submit
ABOUT US
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SIGMA

Student Informal Guidance Monitoring Assessment

Login Sign Up

Home View Courses

Available Online Courses

Artificial Intelligence

View Course

Web Technologies

View Course

Cloud Computing

View Course

Computer Networks

View Course

Software Engineering

View Course

SIGMA

Student Informal Guidance Monitoring Assessment

Login Sign Up

Home View Counsellors

Experienced Counsellors

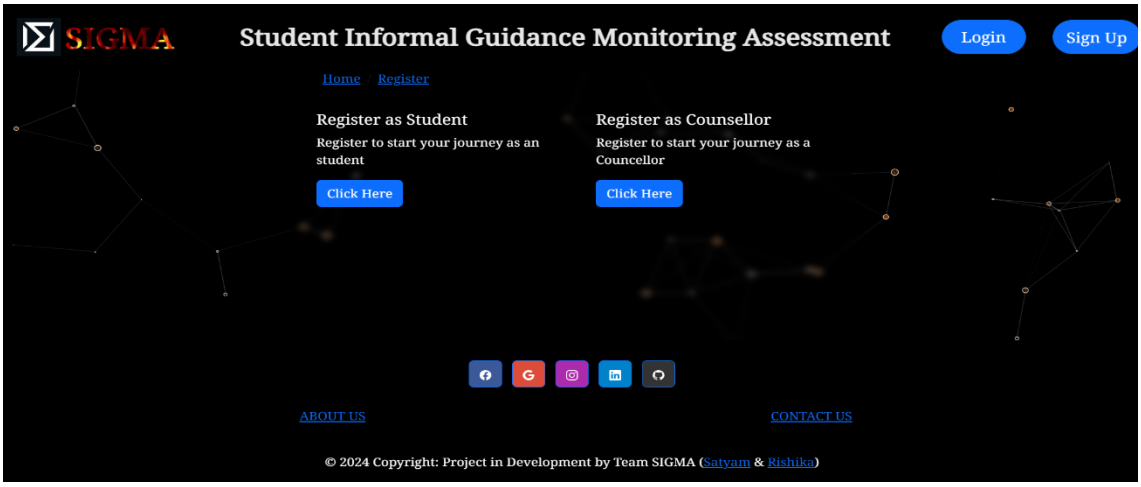
PrashantAgrawal
Contact through-prashant@gmail.com

AnkitVerma
Contact through-ankit@gmail.com

SangeetaArora
Contact through-sangeeta@gmail.com

ShashankBhardwaj
Contact through-shashank@gmail.com

PraveenPorwal
Contact through-praveen@gmail.com


SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Register
Register as Student
Register to start your journey as an student
Click Here
Register as Counsellor
Register to start your journey as a Councellor
Click Here
ABOUT US
CONTACT US
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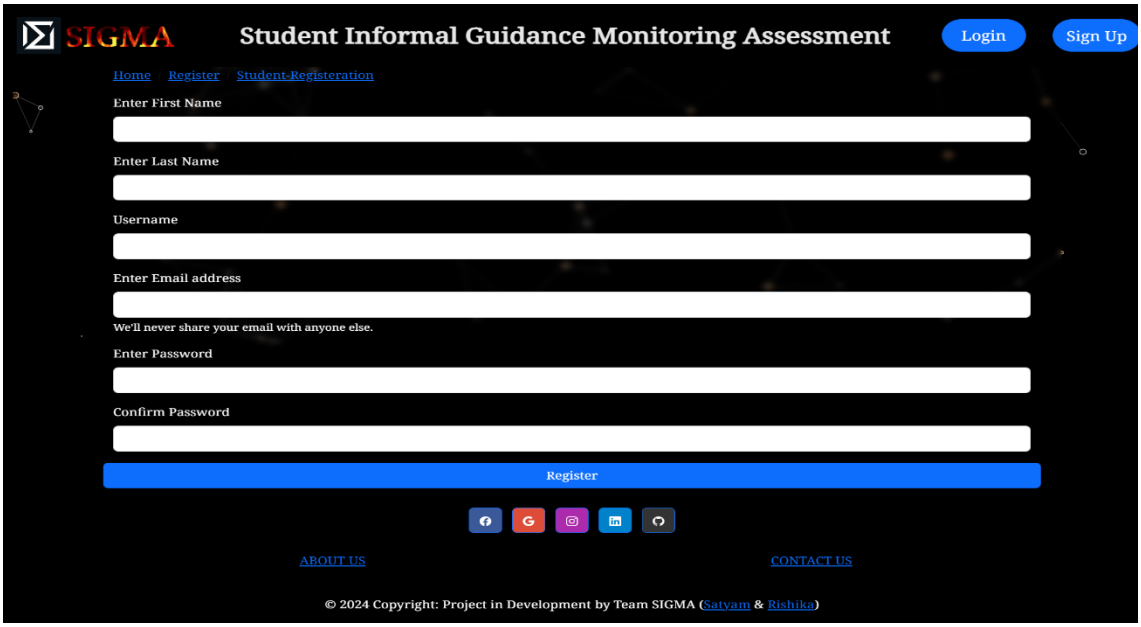
SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Register
Student-Registeration
Enter First Name
Enter Last Name
Username
Enter Email address
We'll never share your email with anyone else.
Enter Password
Confirm Password
Register
ABOUT US
CONTACT US
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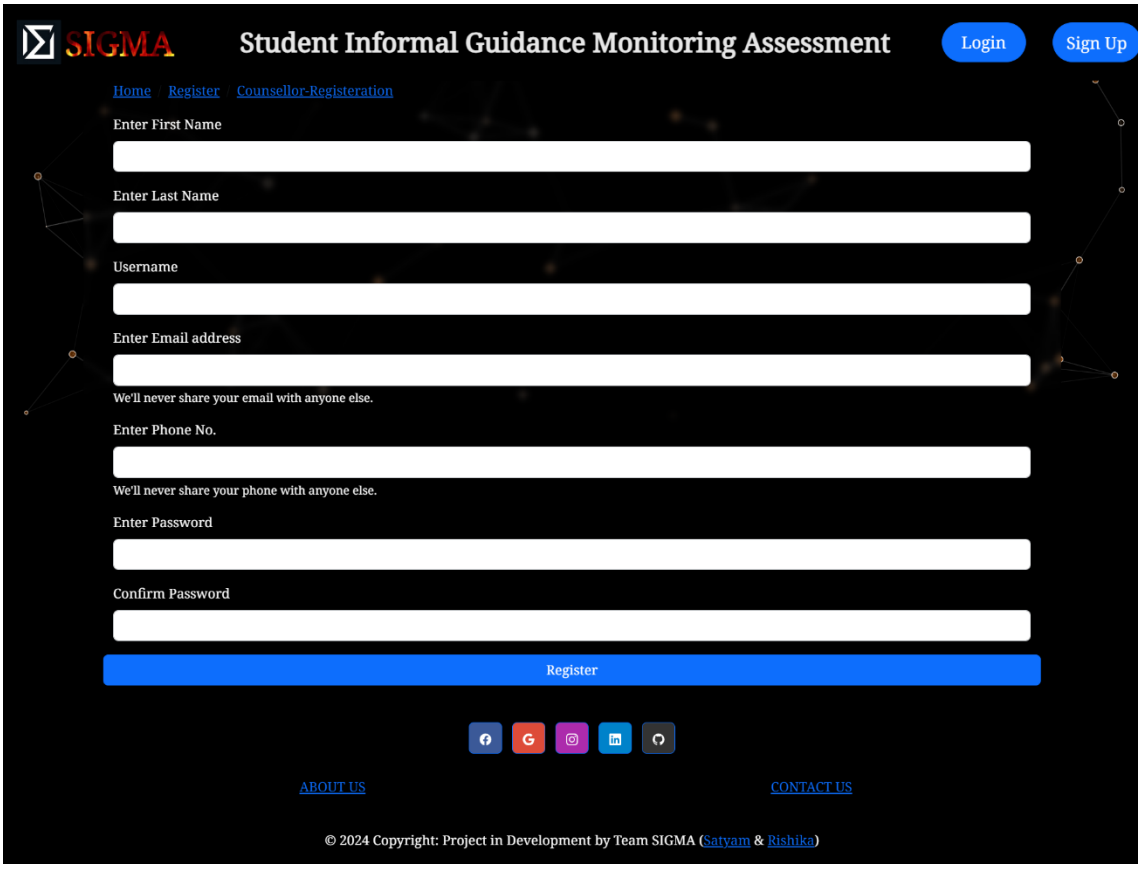
SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Register
Counsellor-Registeration
Enter First Name
Enter Last Name
Username
Enter Email address
We'll never share your email with anyone else.
Enter Phone No.
We'll never share your phone with anyone else.
Enter Password
Confirm Password
Register
ABOUT US
CONTACT US
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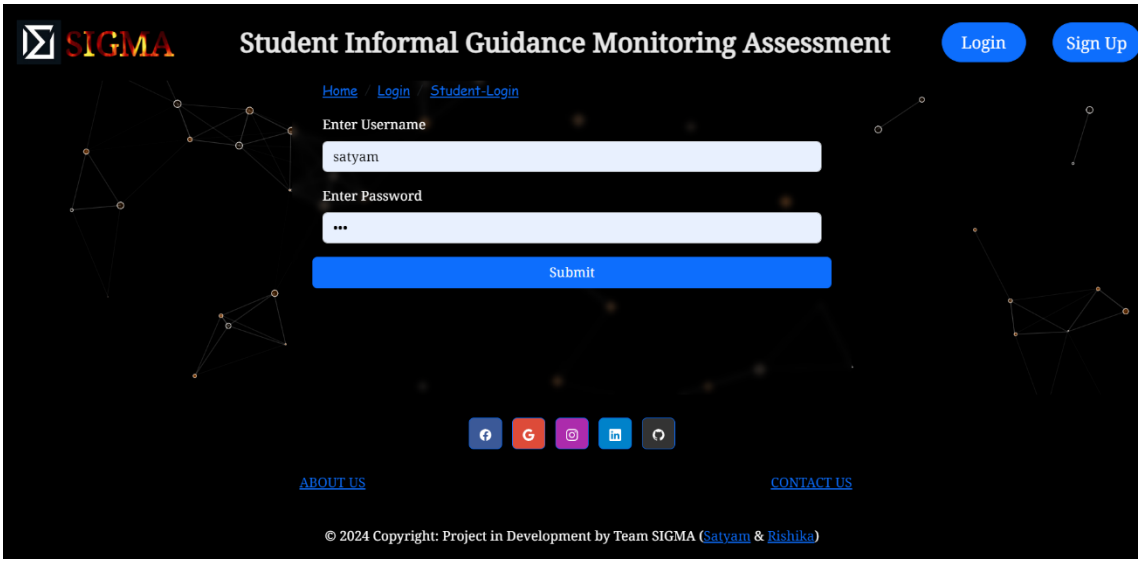
SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home
Login
Student-Login
Enter Username
satyam
Enter Password
Submit
ABOUT US
CONTACT US
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SIGMA

Hi SATYAM Welcome to SIGMA

Logout Sign Up

Home SATYAM's Dashboard

Enrolled Courses

Artificial Intelligence

Complete Course

Web Technologies

Complete Course

Cloud Computing

Complete Course

More Courses

Artificial Intelligence

View Course

Web Technologies

View Course

Cloud Computing

View Course

Computer Networks

View Course

Software Engineering

View Course


SIGMA
Hi SATYAM Welcome to SIGMA
Logout
Sign Up
Home / SATYAM's Dashboard / Welcome back to Artificial Intelligence Course
AI
Course Name : Artificial Intelligence
Instructor : Prashant Agrawal
Course Description : Learn AI with Prashant Agrawal
Course Duration : 6 months
Total Units : 5
Unit 1
Unit 2
Unit 3
Unit 4
Unit 5
Download
Download
Download
Download
Download
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SIGMA
Hi SATYAM Welcome to SIGMA
Logout
Sign Up
Home
SATYAM's Dashboard
View Computer Networks Course
Computer Networks
Course Name : Computer Networks
Instructor : Sangeeta Arora
Course Description : Learn Computer Networks with Sangeeta Arora
Course Duration : 6 months
Total Units : 5
Click here to enroll in this course
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Success You have successfully enrolled now

Home SATYAM's Dashboard

Enrolled Courses

Artificial Intelligence

Complete Course

Web Technologies

Complete Course

Cloud Computing

Complete Course

Computer Networks

Complete Course

Software Engineering

Complete Course

More Courses

Artificial Intelligence

View Course

Web Technologies

View Course

Cloud Computing

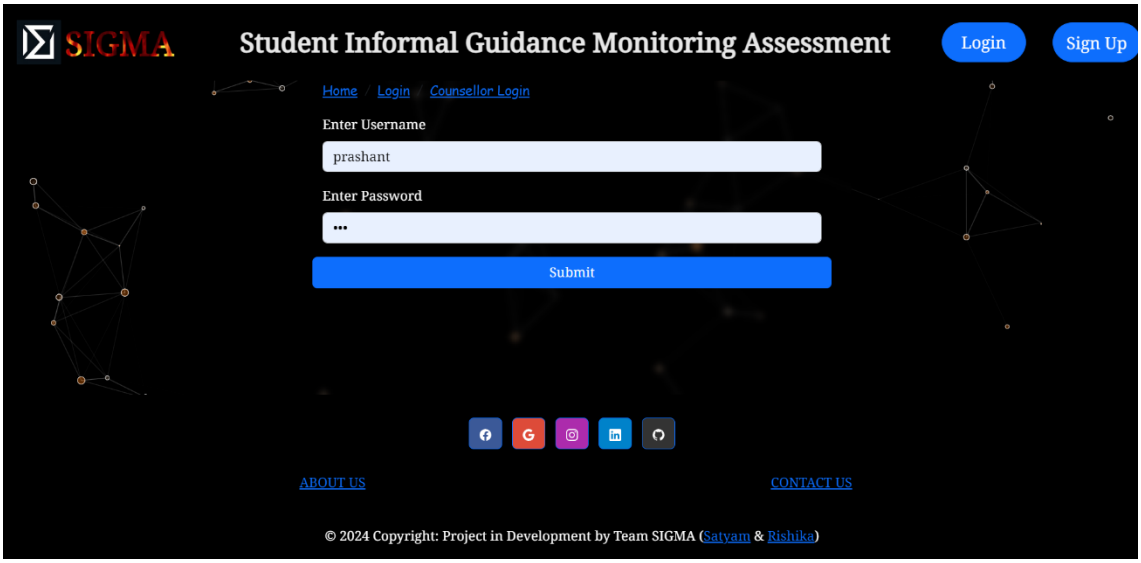
View Course

Computer Networks

View Course

Software Engineering

View Course


SIGMA
Student Informal Guidance Monitoring Assessment
Login
Sign Up
Home / Login / Counsellor Login
Enter Username
prashant
Enter Password
Submit
ABOUT US
CONTACT US
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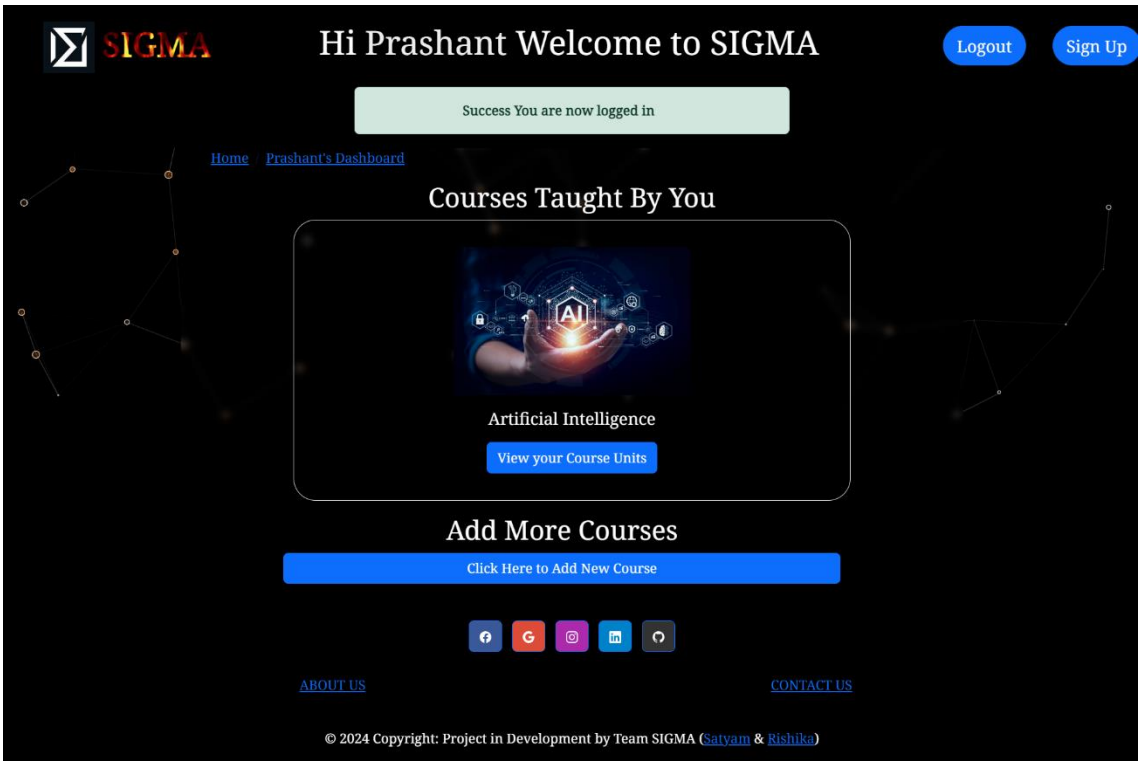
SIGMA
Hi Prashant Welcome to SIGMA
Logout
Sign Up
Success You are now logged in
Home / Prashant's Dashboard
Courses Taught By You
Artificial Intelligence
View your Course Units
Add More Courses
Click Here to Add New Course
ABOUT US
CONTACT US
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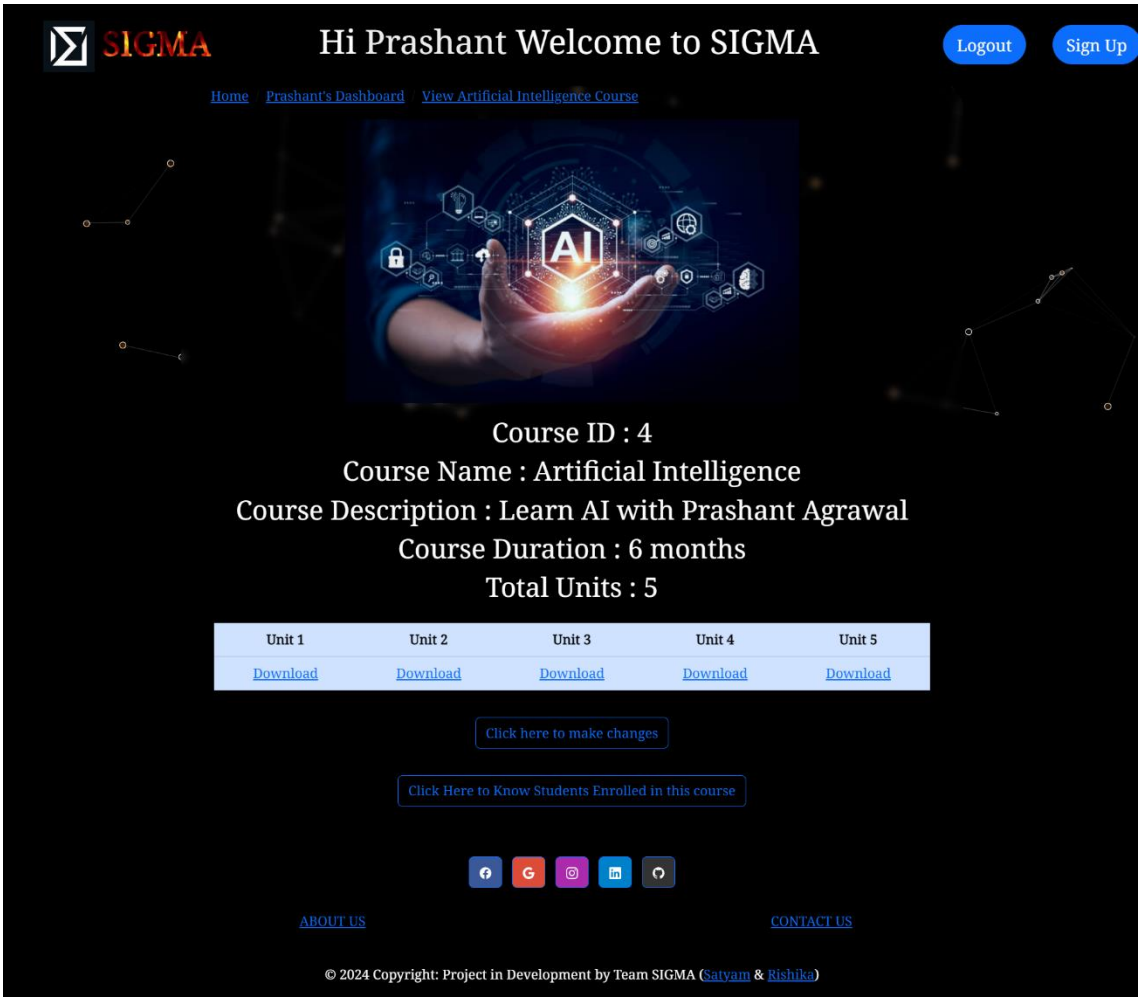
SIGMA
Hi Prashant Welcome to SIGMA
Logout
Sign Up
Home
Prashant's Dashboard
View Artificial Intelligence Course
AI
Course ID : 4
Course Name : Artificial Intelligence
Course Description : Learn AI with Prashant Agrawal
Course Duration : 6 months
Total Units : 5
Unit 1
Unit 2
Unit 3
Unit 4
Unit 5
Download
Download
Download
Download
Download
Click here to make changes
Click Here to Know Students Enrolled in this course
ABOUT US
CONTACT US
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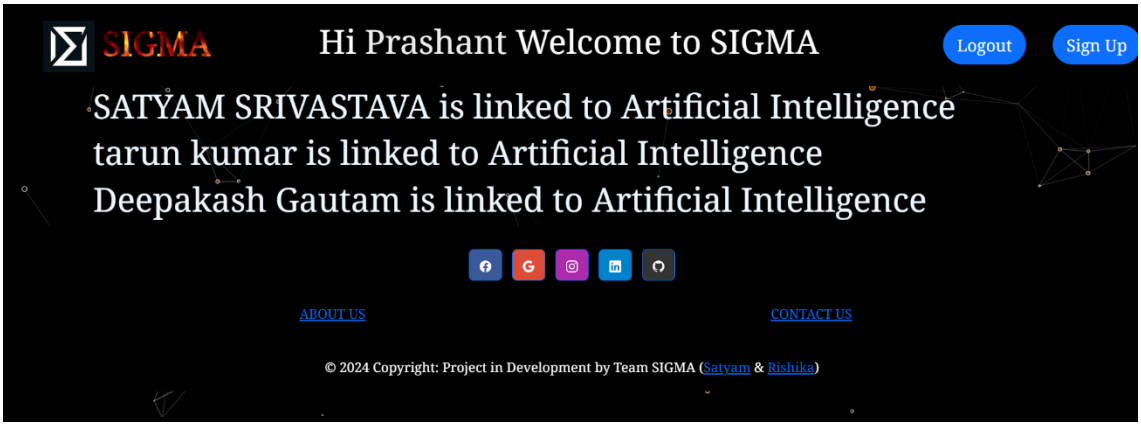
SIGMA
Hi Prashant Welcome to SIGMA
Logout
Sign Up
SATYAM SRIVASTAVA is linked to Artificial Intelligence
tarun kumar is linked to Artificial Intelligence
Deepakash Gautam is linked to Artificial Intelligence
ABOUT US
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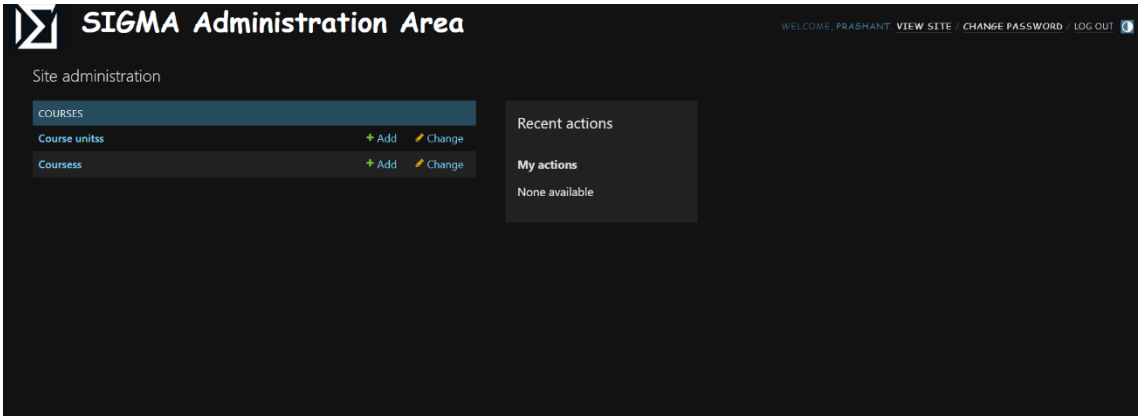
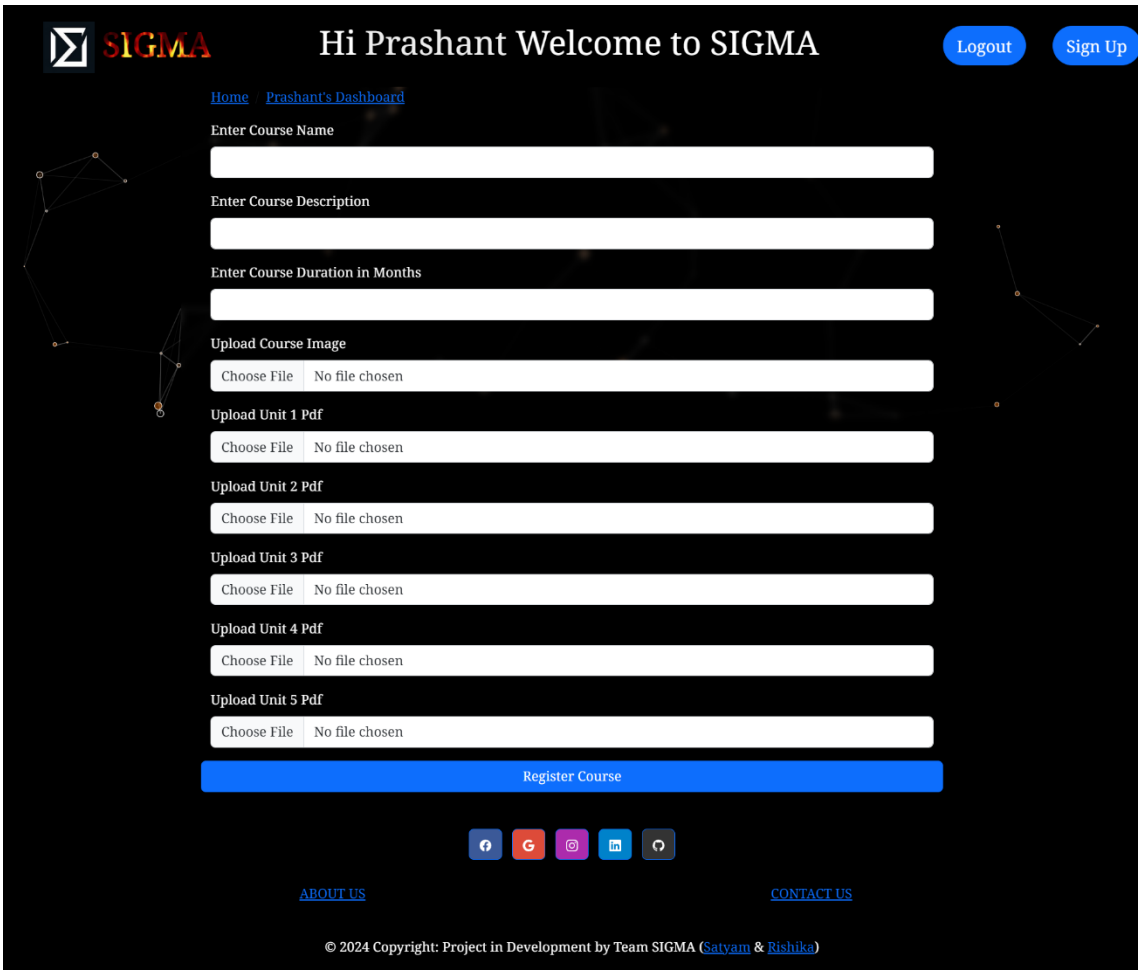

SIGMA Administration Area
WELCOME, PRASHANT VIEW SITE / CHANGE PASSWORD / LOG OUT
Site administration
COURSES
Course unitss + Add Change
Coursess + Add Change
Recent actions
My actions
None available


SIGMA
Hi Prashant Welcome to SIGMA
Logout
Sign Up
Home Prashant's Dashboard
Enter Course Name
Enter Course Description
Enter Course Duration in Months
Upload Course Image
Choose File No file chosen
Upload Unit 1 Pdf
Choose File No file chosen
Upload Unit 2 Pdf
Choose File No file chosen
Upload Unit 3 Pdf
Choose File No file chosen
Upload Unit 4 Pdf
Choose File No file chosen
Upload Unit 5 Pdf
Choose File No file chosen
Register Course
ABOUT US
CONTACT US
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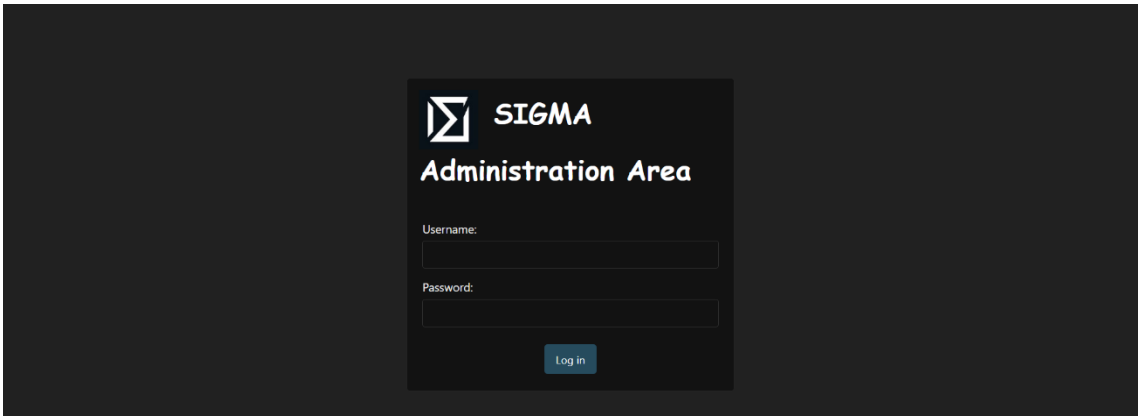
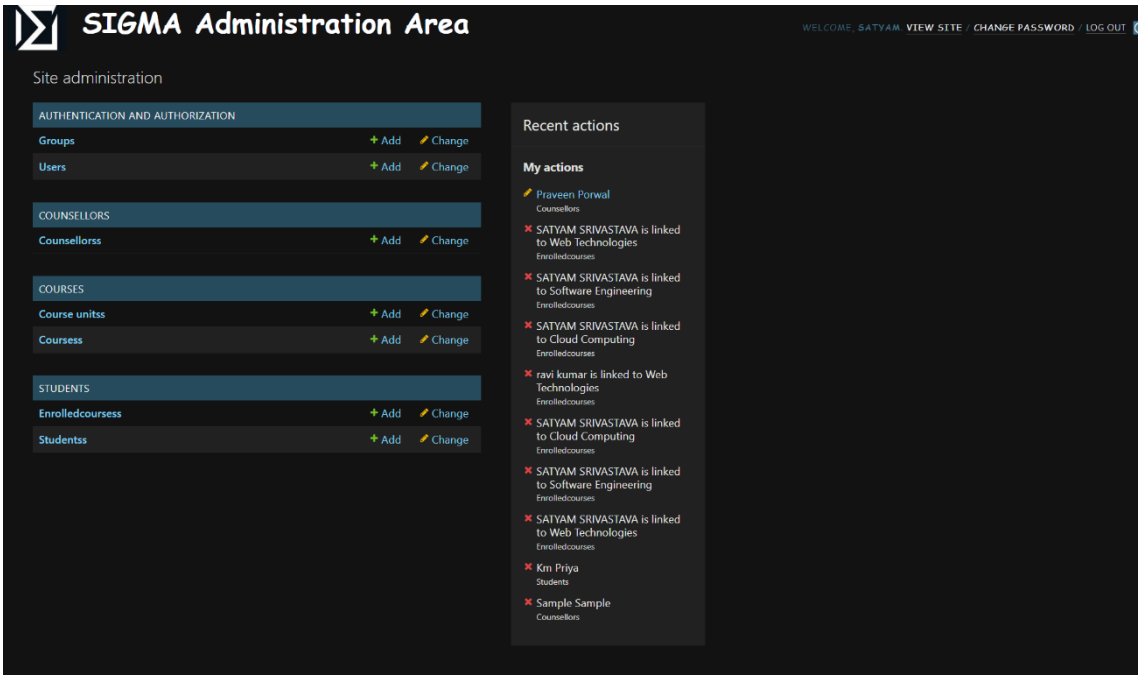
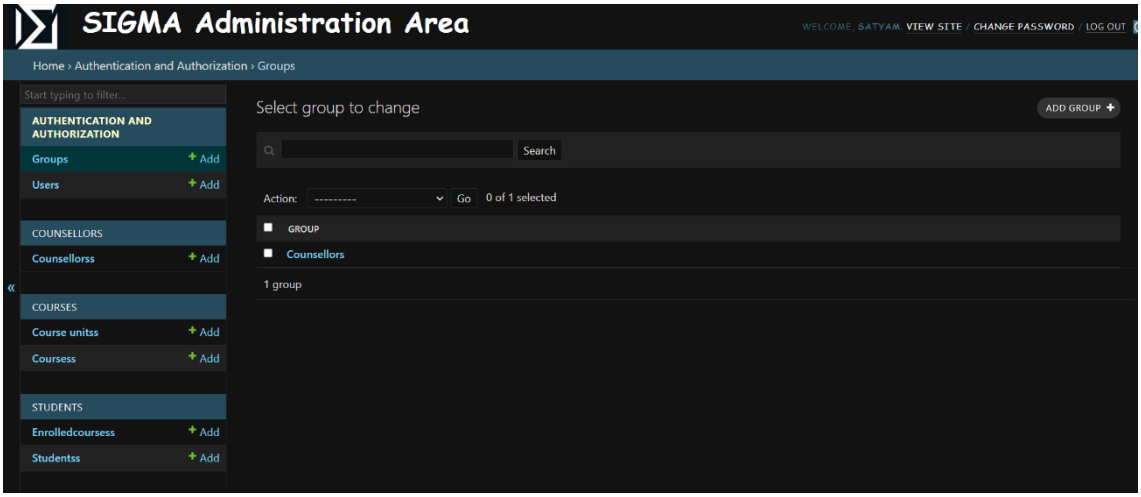
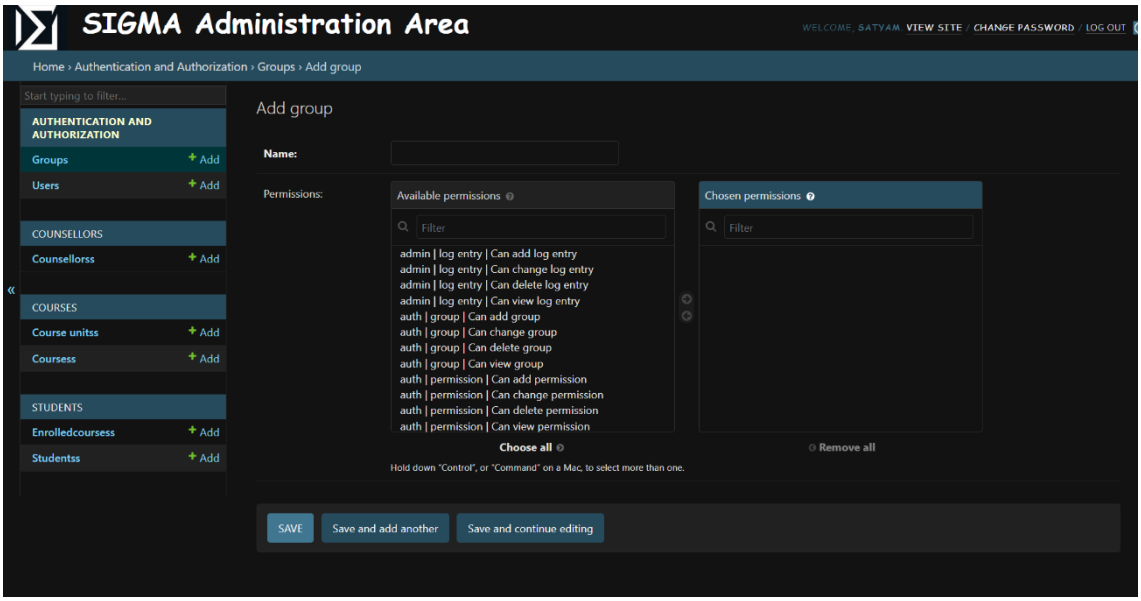
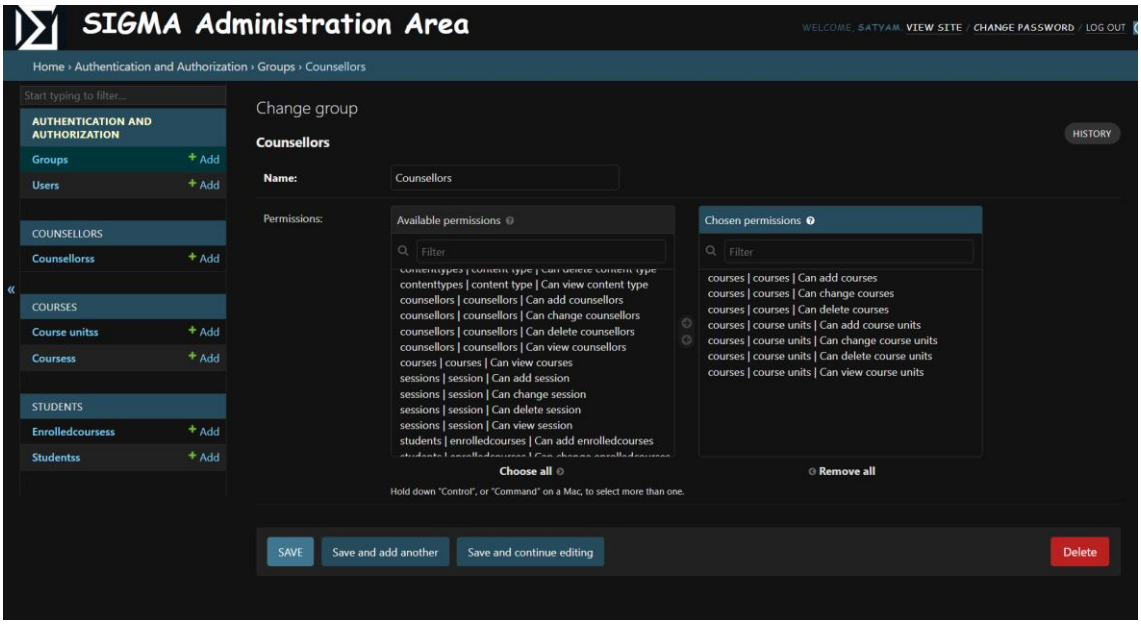
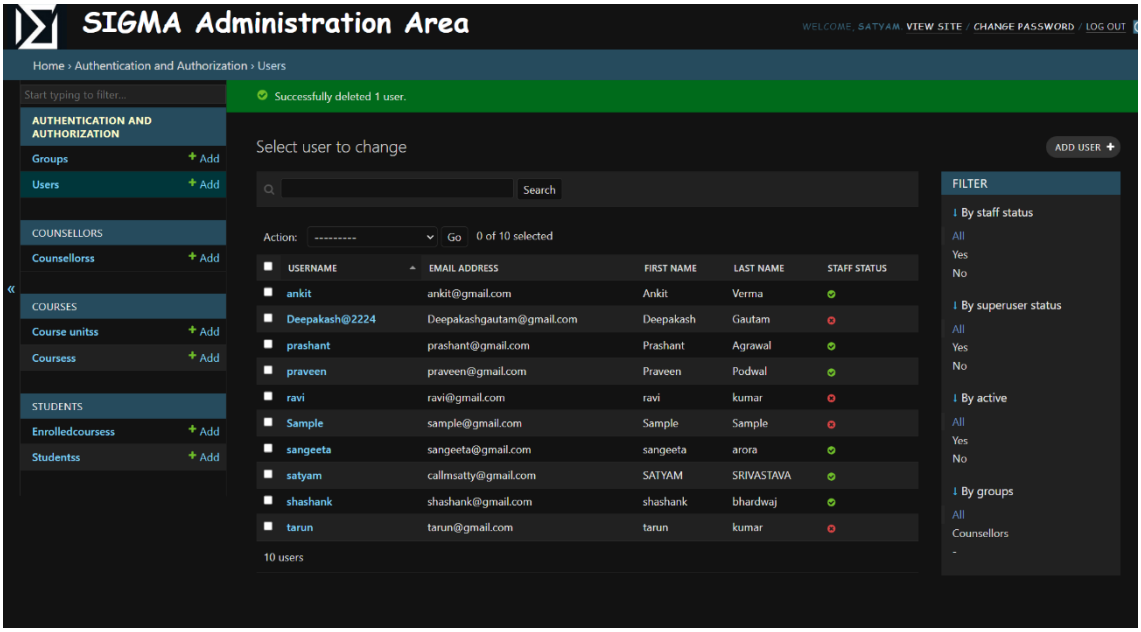

SIGMA
Administration Area
Username:
Password:
Log in

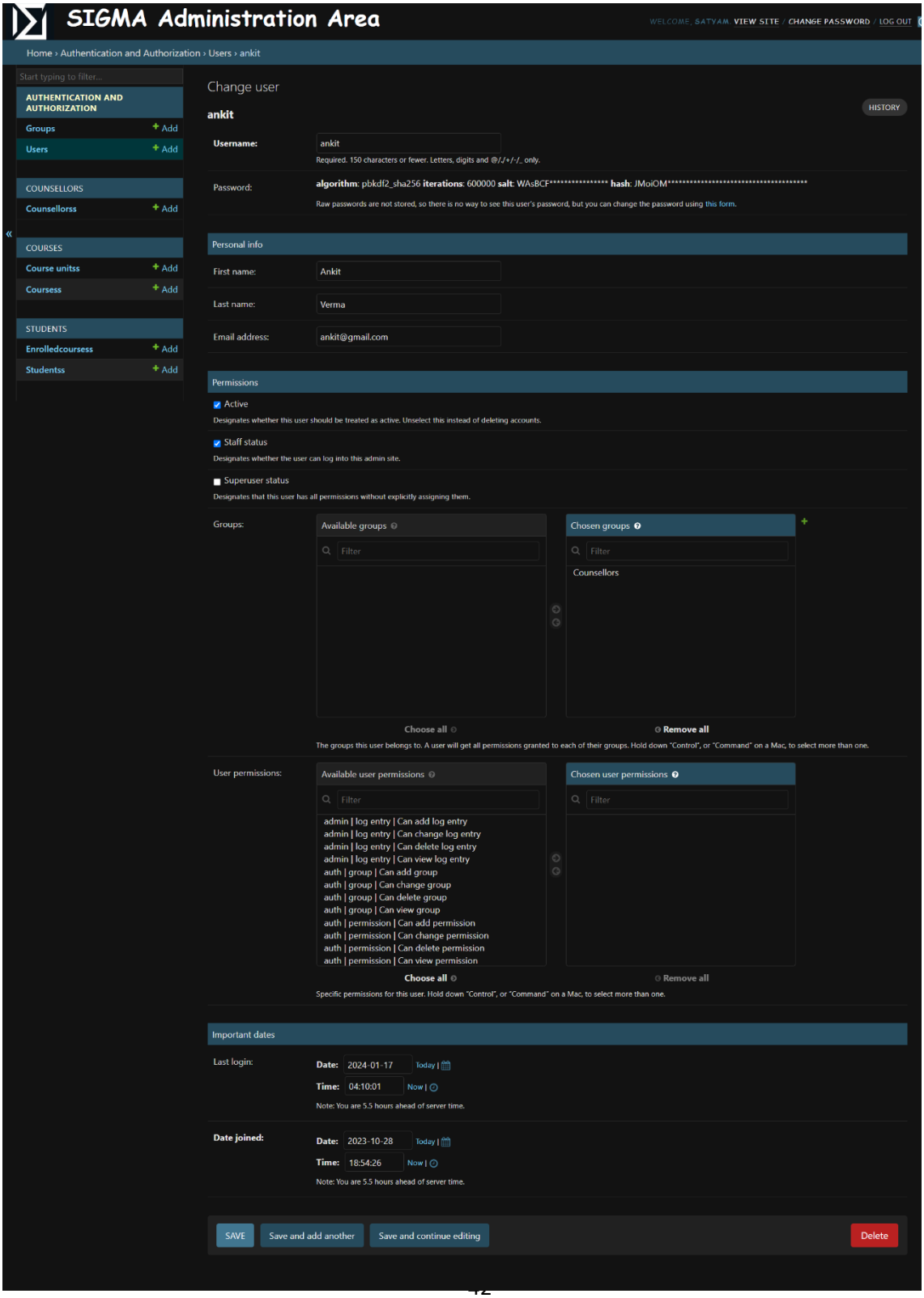

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Site administration
AUTHENTICATION AND AUTHORIZATION
Groups + Add Change
Users + Add Change
COUNSELLORS
Counsellorss + Add Change
COURSES
Course unitss + Add Change
Coursess + Add Change
STUDENTS
Enrolledcoursess + Add Change
Studentss + Add Change
Recent actions
My actions
Praveen Porwal
Counsellors
SATYAM SRIVASTAVA is linked to Web Technologies
Enrolledcourses
SATYAM SRIVASTAVA is linked to Software Engineering
Enrolledcourses
SATYAM SRIVASTAVA is linked to Cloud Computing
Enrolledcourses
ravi kumar is linked to Web Technologies
Enrolledcourses
SATYAM SRIVASTAVA is linked to Cloud Computing
Enrolledcourses
SATYAM SRIVASTAVA is linked to Software Engineering
Enrolledcourses
SATYAM SRIVASTAVA is linked to Web Technologies
Enrolledcourses
Km Priya
Students
Sample Sample
Counsellors


SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Groups
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Select group to change
ADD GROUP +
Search
Action: --------- Go 0 of 1 selected
GROUP
Counsellors
1 group


SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Groups › Add group
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Add group
Name:
Permissions:
Available permissions
Filter
admin | log entry | Can add log entry
admin | log entry | Can change log entry
admin | log entry | Can delete log entry
admin | log entry | Can view log entry
auth | group | Can add group
auth | group | Can change group
auth | group | Can delete group
auth | group | Can view group
auth | permission | Can add permission
auth | permission | Can change permission
auth | permission | Can delete permission
auth | permission | Can view permission
Chosen permissions
Filter
Choose all
Remove all
Hold down "Control", or "Command" on a Mac, to select more than one.
SAVE
Save and add another
Save and continue editing

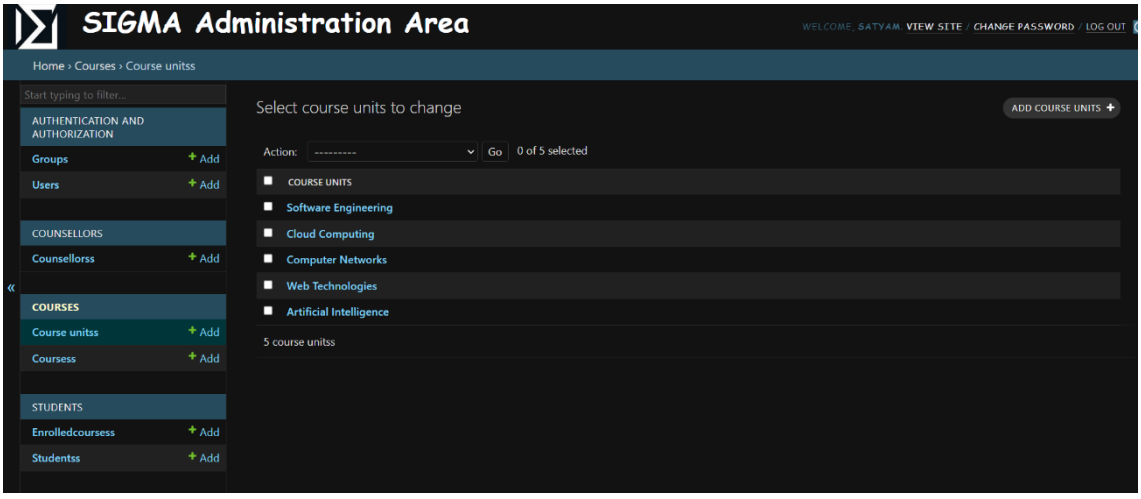

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Groups › Counsellors
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change group
Counsellors
HISTORY
Name: Counsellors
Permissions:
Available permissions
Filter
contenttypes | content type | Can view content type
counsellors | counsellors | Can add counsellors
counsellors | counsellors | Can change counsellors
counsellors | counsellors | Can delete counsellors
counsellors | counsellors | Can view counsellors
courses | courses | Can view courses
sessions | session | Can add session
sessions | session | Can change session
sessions | session | Can delete session
sessions | session | Can view session
students | enrolledcourses | Can add enrolledcourses
Chosen permissions
Filter
courses | courses | Can add courses
courses | courses | Can change courses
courses | courses | Can delete courses
courses | course units | Can add course units
courses | course units | Can change course units
courses | course units | Can delete course units
courses | course units | Can view course units
Choose all
Remove all
Hold down "Control", or "Command" on a Mac, to select more than one.
SAVE
Save and add another
Save and continue editing
Delete

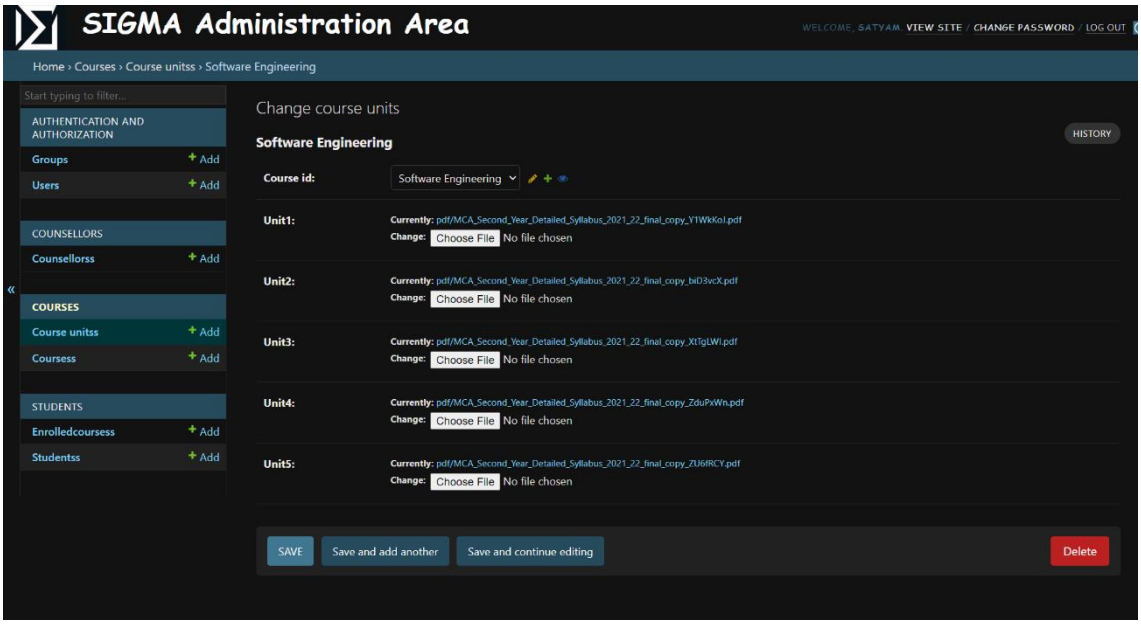

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Successfully deleted 1 user.
Select user to change
ADD USER +
Search
Action: --------- Go 0 of 10 selected
USERNAME | EMAIL ADDRESS | FIRST NAME | LAST NAME | STAFF STATUS
ankit | ankit@gmail.com | Ankit | Verma
Deepakash@2224 | Deepakashgautam@gmail.com | Deepakash | Gautam
prashant | prashant@gmail.com | Prashant | Agrawal
praveen | praveen@gmail.com | Praveen | Podwal
ravi | ravi@gmail.com | ravi | kumar
Sample | sample@gmail.com | Sample | Sample
sangeeta | sangeeta@gmail.com | sangeeta | arora
satyam | callmsatty@gmail.com | SATYAM | SRIVASTAVA
shashank | shashank@gmail.com | shashank | bhardwaj
tarun | tarun@gmail.com | tarun | kumar
10 users
FILTER
By staff status
All
Yes
No
By superuser status
All
Yes
No
By active
All
Yes
No
By groups
All
Counsellors
-

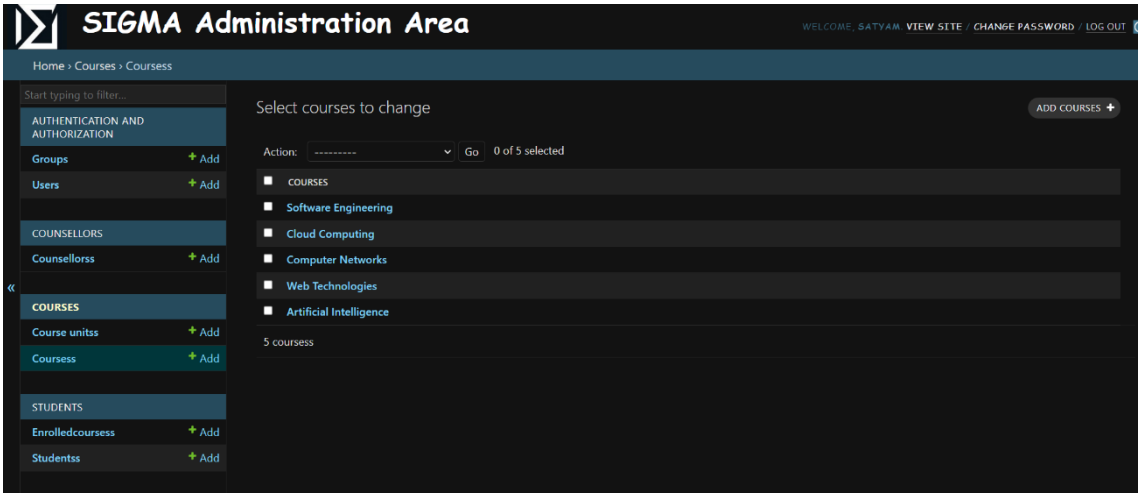

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users › ankit
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change user
ankit
HISTORY
Username: ankit
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password: algorithm: pbkdf2_sha256 iterations: 600000 salt: WAsBCF********** hash: JMoiOM**********
Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.
Personal info
First name: Ankit
Last name: Verma
Email address: ankit@gmail.com
Permissions
Active
Designates whether this user should be treated as active. Unselect this instead of deleting accounts.
Staff status
Designates whether the user can log into this admin site.
Superuser status
Designates that this user has all permissions without explicitly assigning them.
Groups:
Available groups
Filter
Chosen groups
Filter
Counsellors
Choose all
Remove all
The groups this user belongs to. A user will get all permissions granted to each of their groups. Hold down "Control", or "Command" on a Mac, to select more than one.
User permissions:
Available user permissions
Filter
admin | log entry | Can add log entry
admin | log entry | Can change log entry
admin | log entry | Can delete log entry
admin | log entry | Can view log entry
auth | group | Can add group
auth | group | Can change group
auth | group | Can delete group
auth | group | Can view group
auth | permission | Can add permission
auth | permission | Can change permission
auth | permission | Can delete permission
auth | permission | Can view permission
Chosen user permissions
Filter
Choose all
Remove all
Specific permissions for this user. Hold down "Control", or "Command" on a Mac, to select more than one.
Important dates
Last login:
Date: 2024-01-17 Today |
Time: 04:10:01 Now |
Note: You are 5.5 hours ahead of server time.
Date joined:
Date: 2023-10-28 Today |
Time: 18:54:26 Now |
Note: You are 5.5 hours ahead of server time.
SAVE
Save and add another
Save and continue editing
Delete

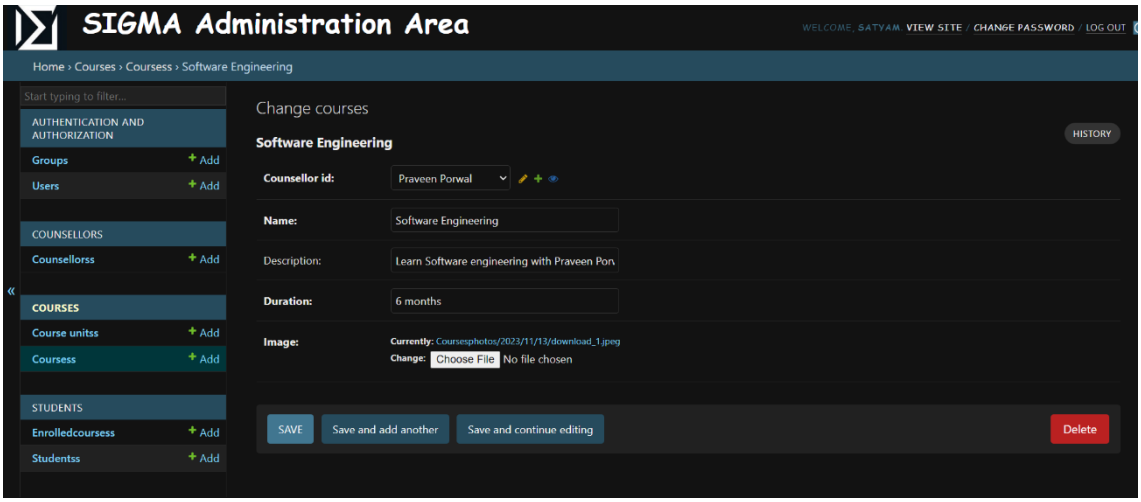

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization
Authentication and Authorization administration
AUTHENTICATION AND AUTHORIZATION
Groups + Add Change
Users + Add Change

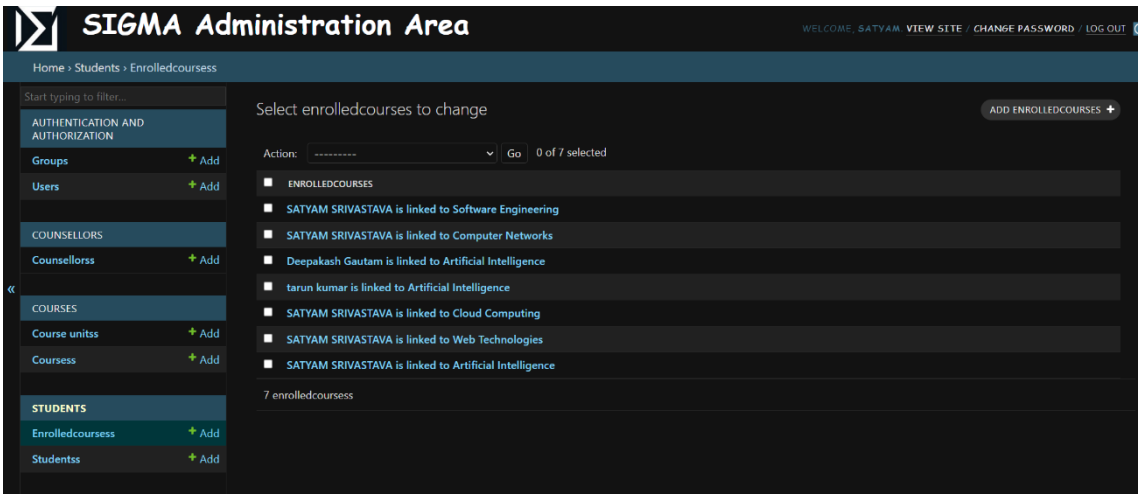

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Counsellors
Counsellors administration
COUNSELLORS
Counsellorss + Add Change

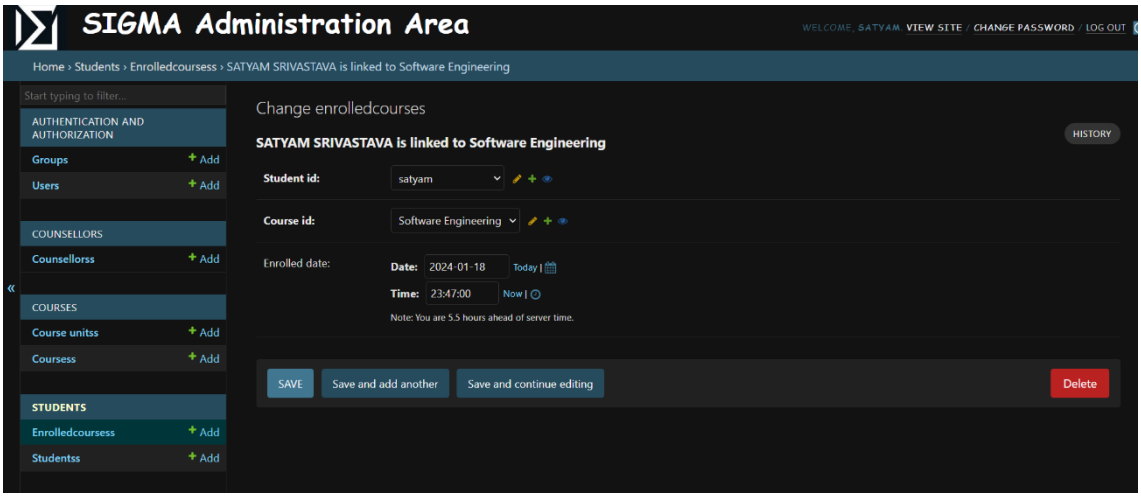

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Courses › Course unitss
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Select course units to change
ADD COURSE UNITS +
Action: --------- Go 0 of 5 selected
COURSE UNITS
Software Engineering
Cloud Computing
Computer Networks
Web Technologies
Artificial Intelligence
5 course unitss

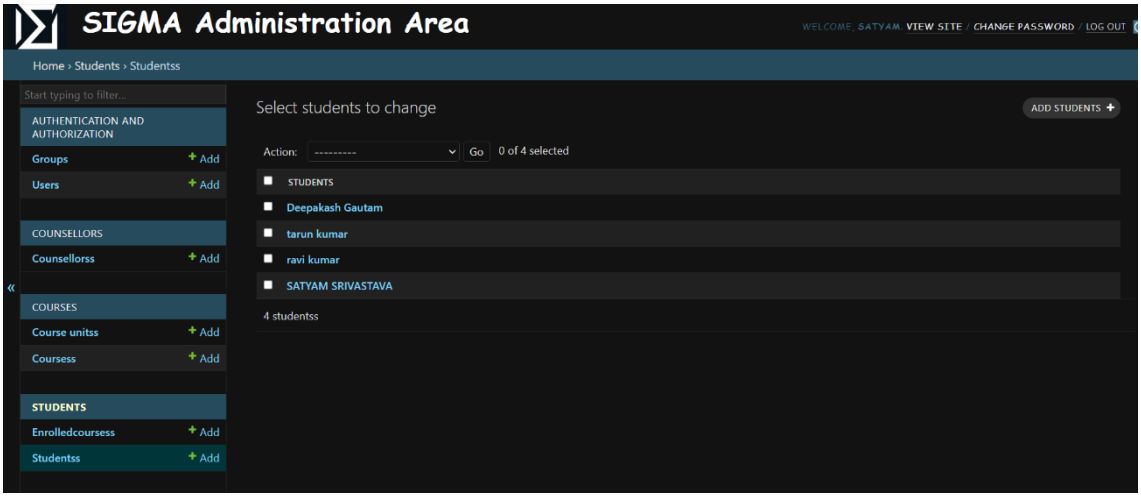

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Courses › Course unitss › Software Engineering
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change course units
Software Engineering
HISTORY
Course id: Software Engineering
Unit1: Currently: pdf/MCA_Second_Year_Detailed_Syllabus_2021_22_final_copy_Y1WkKoI.pdf
Change: Choose File No file chosen
Unit2: Currently: pdf/MCA_Second_Year_Detailed_Syllabus_2021_22_final_copy_biD3vcX.pdf
Change: Choose File No file chosen
Unit3: Currently: pdf/MCA_Second_Year_Detailed_Syllabus_2021_22_final_copy_XtTgLWl.pdf
Change: Choose File No file chosen
Unit4: Currently: pdf/MCA_Second_Year_Detailed_Syllabus_2021_22_final_copy_ZduPxWn.pdf
Change: Choose File No file chosen
Unit5: Currently: pdf/MCA_Second_Year_Detailed_Syllabus_2021_22_final_copy_ZUl6fRCY.pdf
Change: Choose File No file chosen
SAVE
Save and add another
Save and continue editing
Delete

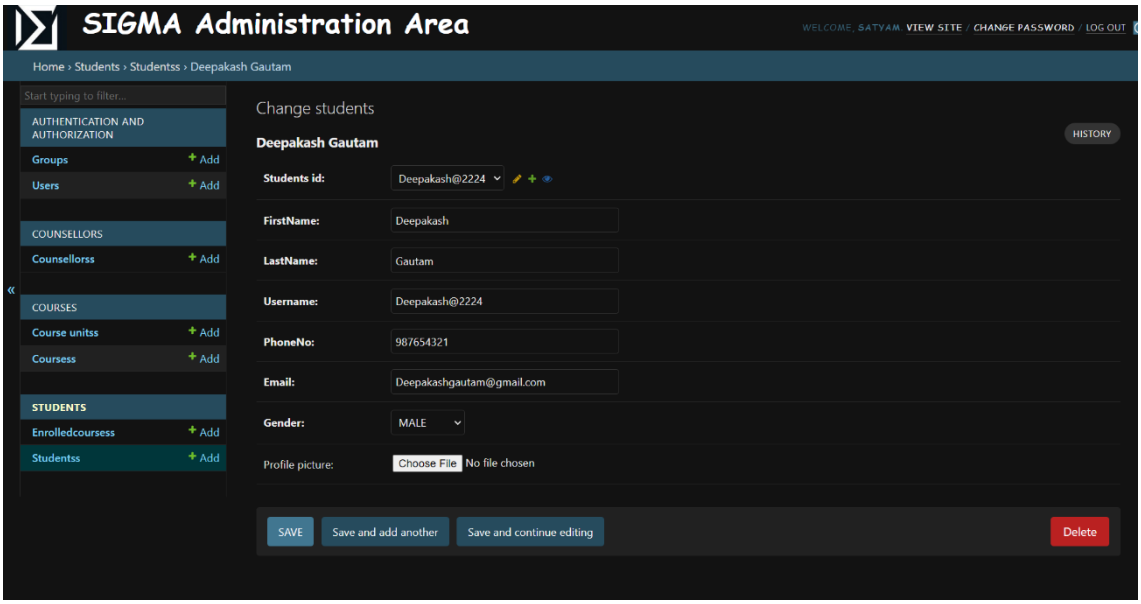

SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Courses › Coursess
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Select courses to change
ADD COURSES +
Action: --------- Go 0 of 5 selected
COURSES
Software Engineering
Cloud Computing
Computer Networks
Web Technologies
Artificial Intelligence
5 coursess

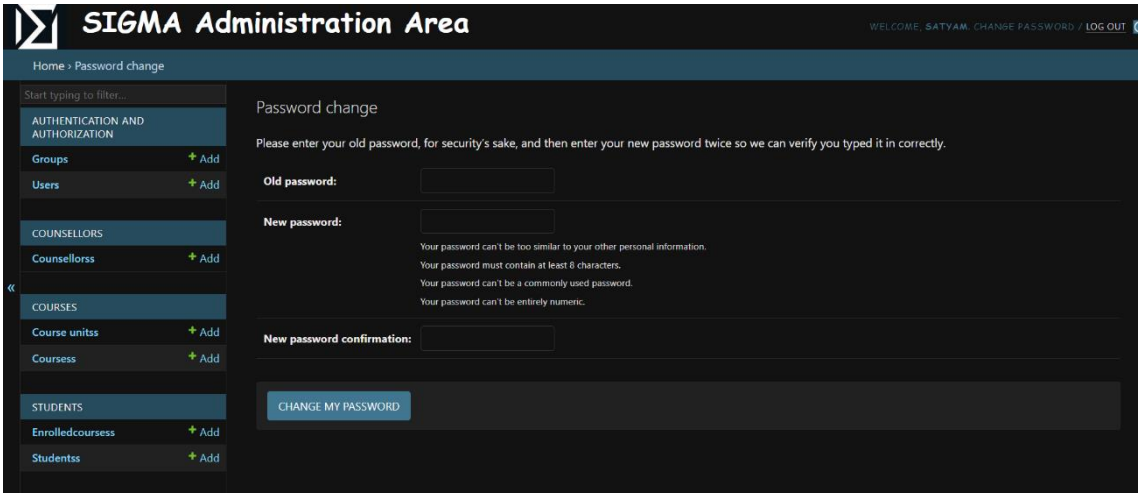

SIGMA Administration Area
WELCOME, SATYAM VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Courses › Coursess › Software Engineering
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change courses
Software Engineering
HISTORY
Counsellor id: Praveen Porwal
Name: Software Engineering
Description: Learn Software engineering with Praveen Por
Duration: 6 months
Image: Currently: Coursesphotos/2023/11/13/download_1.jpeg
Change: Choose File No file chosen
SAVE
Save and add another
Save and continue editing
Delete

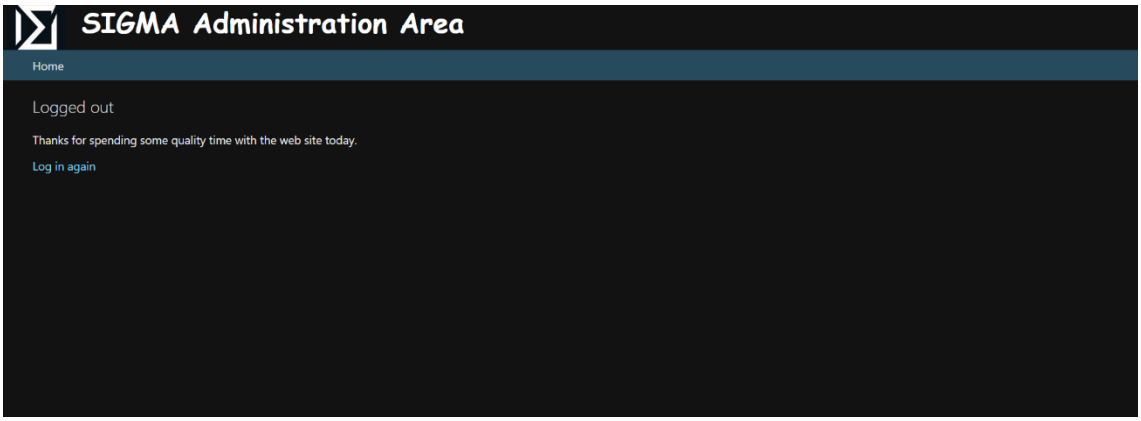

SIGMA Administration Area
WELCOME, SATYAM VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Students › Enrolledcoursess
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Select enrolledcourses to change
ADD ENROLLEDCOURSES +
Action: --------- Go 0 of 7 selected
ENROLLEDCOURSES
SATYAM SRIVASTAVA is linked to Software Engineering
SATYAM SRIVASTAVA is linked to Computer Networks
Deepakash Gautam is linked to Artificial Intelligence
tarun kumar is linked to Artificial Intelligence
SATYAM SRIVASTAVA is linked to Cloud Computing
SATYAM SRIVASTAVA is linked to Web Technologies
SATYAM SRIVASTAVA is linked to Artificial Intelligence
7 enrolledcoursess


SIGMA Administration Area
WELCOME, SATYAM VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Students › Enrolledcoursess › SATYAM SRIVASTAVA is linked to Software Engineering
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change enrolledcourses
SATYAM SRIVASTAVA is linked to Software Engineering
HISTORY
Student id: satyam
Course id: Software Engineering
Enrolled date: Date: 2024-01-18 Today |
Time: 23:47:00 Now |
Note: You are 5.5 hours ahead of server time.
SAVE
Save and add another
Save and continue editing
Delete


SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Students › Studentss
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Select students to change
ADD STUDENTS +
Action: --------- Go 0 of 4 selected
STUDENTS
Deepakash Gautam
tarun kumar
ravi kumar
SATYAM SRIVASTAVA
4 studentss


SIGMA Administration Area
WELCOME, SATYAM. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Students › Studentss › Deepakash Gautam
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Change students
Deepakash Gautam
HISTORY
Students id: Deepakash@2224
FirstName: Deepakash
LastName: Gautam
Username: Deepakash@2224
PhoneNo: 987654321
Email: Deepakashgautam@gmail.com
Gender: MALE
Profile picture: Choose File No file chosen
SAVE
Save and add another
Save and continue editing
Delete


SIGMA Administration Area
WELCOME, SATYAM. CHANGE PASSWORD / LOG OUT
Home › Password change
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
COUNSELLORS
Counsellorss + Add
COURSES
Course unitss + Add
Coursess + Add
STUDENTS
Enrolledcoursess + Add
Studentss + Add
Password change
Please enter your old password, for security's sake, and then enter your new password twice so we can verify you typed it in correctly.
Old password:
New password:
Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.
New password confirmation:
CHANGE MY PASSWORD


SIGMA Administration Area
Home
Logged out
Thanks for spending some quality time with the web site today.
Log in again

CHAPTER 8

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