

**A Student Academic Portal for Educational  
Institutes to be used by Students and Faculty**

*The Project report as part of Internet and Web  
Programming (CSE3002)*

**FINAL PROJECT (J COMPONENT)  
REPORT**

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## **1. ABSTRACT**

Education Industry is rapidly growing and making its reach to grow great lengths and breadths. Keeping in mind the current situation with COVID-19 having greatly impacted the education/school life of the kids. Everything now is online and thus not only teaching but the admin structure is also online.

Using modern technology and the internet to minimise work and improve productivity is a way to digital country and using technology helps to provide a smart working mechanism to enforce in educational institutes.

This is why there is a great need for a student/faculty portal system to ensure that the information/study material is passed on to the kids without any glitches. A student portal system can be of great help as it would act as a one stop where the student can login with his/her credentials and access all information/resources ( from details about faculty to assignments to be submitted and study material provided by the teacher).

In a similar way it acts as a great help for the faculty too, as it is easy to send or pass information to each and every student without any issues. It thus reduces the manual labor of both the faculty as well as the children and makes maintaining records easier.

## **2. KEYWORDS**

Student, portal, login, records, database, html, CSS, JavaScript, NodeJS, mongo dB, homepage, timetable

## **3. INTRODUCTION**

In this project we have used many languages such as HTML, CSS, JS, NodeJS to create a student portal, with many added features. With everything being online today, and students uploading their friend's assignments by just changing the name. An advance student portal as this one, is the need of the hour. As our student portal will let the teachers know if any 2 students have uploaded similar documents. In addition, it has many other features such as downloading course files for uninterrupted study, and Assignment deadline alert, so that no student can make an excuse that they forgot about the deadline. The students can also find all the required information about their faculties, including their free hours, in case they need

to ask any doubts. In our student portal, the students can easily check their time table and attendance for the classes. So they know if they really need to attend the class, keeping in mind the 75% quota. All the data available to the students are personalized for them, as they have to authenticate themselves by logging in, using their email id and password.

## 4. RELATED WORK/LITERATURE SURVEY

SR. NO.	AUTHOR/ YEAR	TITLE	DESCRIPTION	RESULTS/ ADVANTAGES
1.	Prof. Ms. Manali R. Raut, Trupti P. Lokhande, Karishma D. Godbole YEAR - 2019	PCE Staff/Student Portal	The objective of PCE Staff/Student portal is to provide an online web based solution for academic use. Easy to use futures help our students and staff organize and access information about all aspects of the Alumni student, T&P data, Paper Publication data and Workshop Attended in college. Problem Statement Today's education scenario is rapidly changing and demanding.	It cut down the man power required and provides accurate information. Malpractice can be pare. All years together huddled information can be saved and can be accessed at any time. For this reason the data stored in the repository helps in taking decision by management. So it is improved to have a Web Based system.
2	Angelos Rodafinos, Filia Garivaldis, Stephen McKenzie YEAR 2019	A FULLY ONLINE RESEARCH PORTAL FOR RESEARCH STUDENTS AND RESEARCHERS . Year-2018	This paper describes the context, development, implementation, and the potential transferability of an integrated online research environment that allows its users to conduct all aspects of research online.	The Research Portal is now providing an online research and research teaching capacity beyond the GDPA to other online and on-campus Monash University student and staff users from the Graduate Diploma of Professional Psychology, other Psychology courses, and other Monash Schools and Faculties such as the Nursing School. Eventually it will be expanded to allow use by universities beyond Monash. The next steps in the development of the Research Portal include further refinement, personalization, and expanded implementation and dissemination of its components, possibly

				assisted by grants and other funding opportunities. The formation of networks and working partnerships to operate, maintain, and promote Research Portal initiatives are required to reduce operational costs, increase access, and create an impact.
3	Percia V.SECRETO, Rhodora L. PAMULAKLAKIN YEAR -2015	Learners' satisfaction level with online student portal as a support system in an open and distance elearning environment (ODeL)	Learner support in an open, distance and online learning is defined as "all activities and elements in education that respond to a known learner or group of learners, and which are designed to assist in the cognitive, affective, and systemic realms of the learning process".Teaching and tutoring, advising and counseling, and information and administration are the main institutional systems involved in learner support. The UP Open University functions under an open and distance e-learning (ODeL) framework of distance education where most of its academic and non-academic processes are done through the Internet.	The study determined the satisfaction level of the learners who used the existing online student portal(OSP) of the university of the philippiness open university . The study conducted a purposive online survey involving learner who have experienced both the manual and online systems.Learner have also suggested features that can be added to the existing functionalities of the portal.

4	Molola B.O. Ajoye, Williams E. Nwagwu YEAR- 2018	INFORMATION SYSTEMS USER SATISFACTION: A SURVEY OF THE POSTGRADUATE SCHOOL PORTAL, UNIVERSITY OF IBADAN, NIGERIA	The study was designed to investigate how information system IS measures (such as system quality, information quality, service quality, technological/infrastructural issues, users' IT self-efficacy) influence user satisfaction of the university of Ibadan postgraduate school portal using a conceptual model adapted from Delone and McLean (2003).	The study found all the information system attributes to significantly predict user satisfaction, however, the same measures did not predict significantly on users satisfaction on account of users' IT self-efficacy.
5	Kimeshan Naidoo, Dr Graham Roberts Year-2016	A web application connecting high school applicants to enrolled university students.	This project is about building a web application that connects high school students to current university students. The key challenge was developing an application that would attract high school teenagers and students by possessing a rich variety of features while providing a practical and easy to use platform that enables high school students to chat online with university students.	While there are vast amounts of research and best practices, completing and evaluating a software project in entirety is not a trivial task. Reflecting on this project, it is clear that regardless of the amount of analysis and design conducted for a software project, there will almost always be unexpected challenges and changes that arise. Hence, the Agile approach that embraces change was validated by this project and the author understands why Agile has reached such a high degree of popularity in the software engineering community.
6	Ruofan Ding, Thomas Grimshaw, Penelope Over Year-2015	HackBox Admin Portal	This project was created to design and implement an Administrator Portal for Microsoft's new hackathon management tool. The Admin Portal provides administrators the ability to view, create, modify and delete hackathon related data. This data includes the basic information about a hackathon, the hackathon's participants, and the hackathon's projects. The Admin Portal allows administrators to easily perform these functions through a data centric user interface. We created the Admin Portal using the latest	Our research showed that tools to manage a hackathon were few. The Admin Portal successfully complements the front end website using the database developed by another team at Microsoft. The Admin Portal allows admins to manage their hackathons in a simple and clean interface that is more data oriented than the front end website.

			web development technology and with design inspiration from other major Microsoft products. We developed this tool in Microsoft's Cambridge office in collaboration with the Microsoft Garage team in Redmond.	
7	ADEDAYO BABAFEMI ALAO, Associate Professor Dai Yu, Professor Shi Gang Year-2016	Design and Implementation of SaaS Based School Management System	This chapter explains in detail about the research background, problem statement, the objective, a little to the possibility that is cloud computing and also Software as a Service (SaaS) platform and its benefits, scope and the thesis organization of this project for this system.	This introduces cloud computing, the different aspects of cloud computing, software as a service, cloud database, Microsoft Azure services, Azure SQL database and elastic pool databases and finally school management system. Finally the design and the implementation of a SaaS based School management system was described. Also this system uses the latest technologies like NodeJs, Microsoft Azure services, HTML, JavaScript and a lot more.
8	Feras Qawasmeh , Abdulhadi Tahir, Haris Tresnjo, Amina Zilic, Jamaludin Ibrahim Year- 2017	The student portal performance-comparative study (GSM-IIUM)	People in general and even some studies tend not to clearly being aware of the differences between data, information and knowledge. However, data has no functionality or benefits unless human interpretation is being involved in transferring these data into information that is useful and has functionality	Quality of student portal services provided for IIUM as well as GSM students have a significant impact on how students perceive their educational institution at large. It is important for IIUM as well as GSM to better their understanding of the services needed by their students, creating an encouraging system for feedback to be given by students and finally making.

## **5. PROPOSED WORK**

The website offers students and faculty the ability to connect in terms of the academic requirements , online via a web application, called the student/faculty academic portal. This would provide services like checking and updating attendance ,getting the study material from the faculties , uploading assigments within the prescribed dates etc. This resolves all the manual process drawbacks and reduces the room for error, improves the productivity and speeds up the work that needs to be done. On the side of college management, a person can easiltly see the details of students than print the student details on paper.

The database maintained by the university will ensure thatvery student and faculty has a unique username and password for loggin in and accessing their account. All data stored regarding the student will be validated by the servers from the college . This method also leads to ensuring integrity of data and coherence.

We have ensured to provide all the basic functionalities that a student portal must have to ensure smooth function of the system.

There will be two kinds of Login :-

- a) Student Login
- b) Teacher Login

**STUDENT LOGIN :** The student login as the name suggests will be used by the students for accessing and submitting their works. The following are the functionalities included in the student login :-

- **Home Page :** The home page provides all the information regarding the student which includes his personal details, academic details, hostel details etc. The homepage will also be a host for the latest news from the college which will be shown using the ASIDE feature from HTML. This would include updates about the college, new announcements, assignment deadlines etc. The homepage will also talk about the activities related to clubs and chapters.  
All this information will be updated dynamically as and when required.
- **Time Table:** This page shall talk about the timetable of the student.
- **Faculty Info :** This page will provide the student about information regarding faculties (i.e. their name, contact number, cabin number, free hours etc) and student can make use of this info to get their doubts cleared.
- **Course Page:** This page will provide the students with the study material that the faculty has used for teaching. The students can access this data at any moment and thus use it for better understanding at a

later time after the class.

- **Submit Assignment:** This page will allow the student to submit their assignment well within the due date. Once the due date shall pass the student will not be allowed to submit his/her works.

**FACULTY LOGIN:** This login will only be used by the faculty members of the educational institute. The following are the functionalities included in the teacher login :-

- **Add Details of a Student:** This option will be given to the faculty to update/modify/enter/delete the data that was visible on the homepage of the student. This option is given only to the faculties to ensure that the data entered and maintained in the database is legitimate.
- **PLAGIARISM CHECKER:** This is the novelty of our project The students will be allowed to upload assignments from their login. The teachers will have the privilege to check plagiarism between the documents uploaded to ensure that students do not copy the assignment. Plagiarism will be checked among the contents uploaded by students.
  - We have used the concept implemented by search engine crawlers to store indexes of words of web pages called the tf-idf approach.
  - We will store indexes of words, their location in document and document id.
  - After making such inverted index we will compare location of each word and their document id.
  - Various similarity measures can be used for result.

## Technology Used:

- **TF-IDF-** This technology/methodology has been used to implement the plagiarism checker in the project. This is a very known concept used and implemented by almost all search engine crawlers these days to store indexes of words in the web pages. We will store the indexes of words and their location in the document and their document id in a table. We will then construct an inverted index for the same. This would then be repeated for the second document , with which we will compare the first one. After making such inverted index we will compare location of each word and their document id in both the tables. Then, Various similarity measures can be used for presenting the final output, the plagiarism percentage.
- **HTML -** HTML is a language that is used alone to build a static webpage. HTML is an abbreviation for HyperText Markup

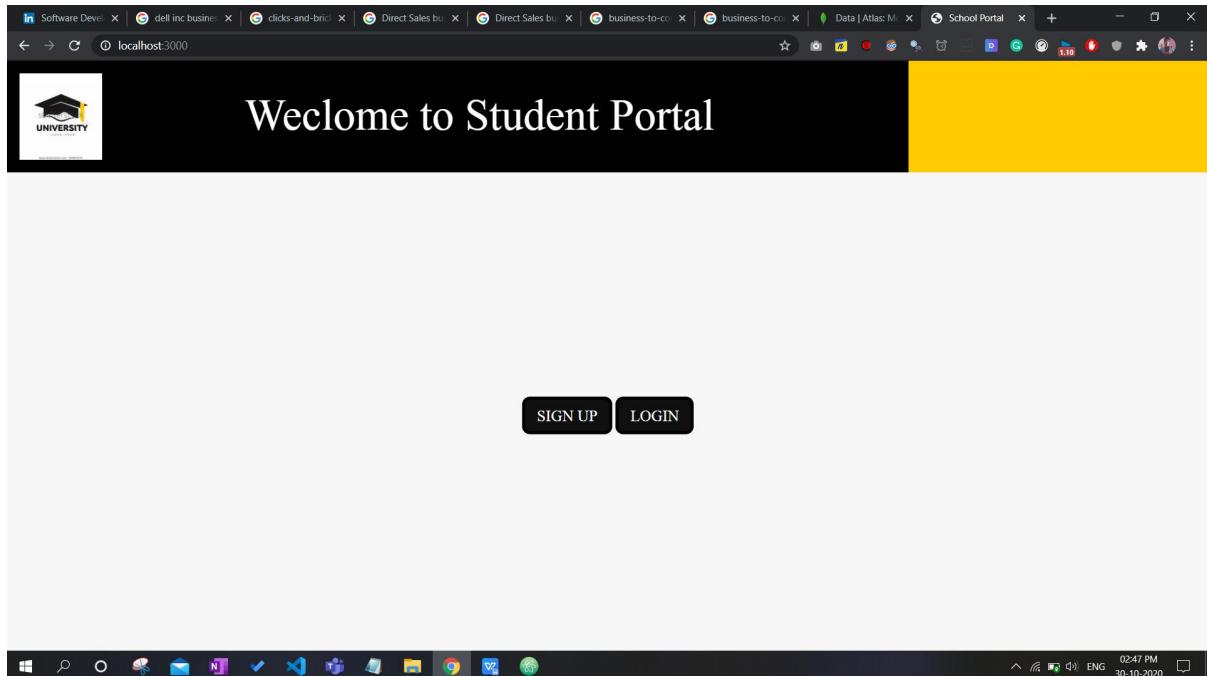
Language.HTML is the basic framework of any website, thus without its knowledge creating a website is impossible. If we just build our website using html, we can not add many of the powerful web page properties for the effective and interactive making of a web page. Different frameworks are used, like CSS for beautification , JS , NODEJS for dynamic attributed etc. So we use these technology to enable and optimise our web sites efficiency and engagability. And to make our web app dynamic Java script,nodejs is used by us.

- **CSS** - The CSS stands for "Cascading Style Sheet." As the name suggests this used to format and style the online pages. You can Use this for styling text , tables and other components of the Page which could only be previously specified in an HTML page. It aims to minimise the time used for the tedious and tough job of presenting the web app in a beautiful way.
- **JAVASCRIPT** - JavaScript is a text-based, client- and server-side programming language that helps you to create web sites which are interactive, i.e the user can interact with it. JavaScript offers web pages with interactive features while HTML and CSS are languages that offer web pages structure and design. The various features that js provides are dropping down a menu on a click, making a carousel of images move, etc.
- **NODE JS** - Node js is used to create the backbone structure i.e. the backend of the web application. The server side part of the application is developed using nodejs. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux. Nodejs is preferred over its counter parts because it is and asynchronous approach and is non blocking in nature. It is extremely fast and highly scalable.
- **MONGO DB** – From the mid 2000s mongodb has been the go-to approach for developers as a database. MongoDB works as a database and stores information gathered from the respective web page. It is a document oriented NoSQL Database system. It is highly popular for its ability to store huge amounts of data efficiently and maintain the integrity and security of the same. Rather than using the traditional method of using tables and rows

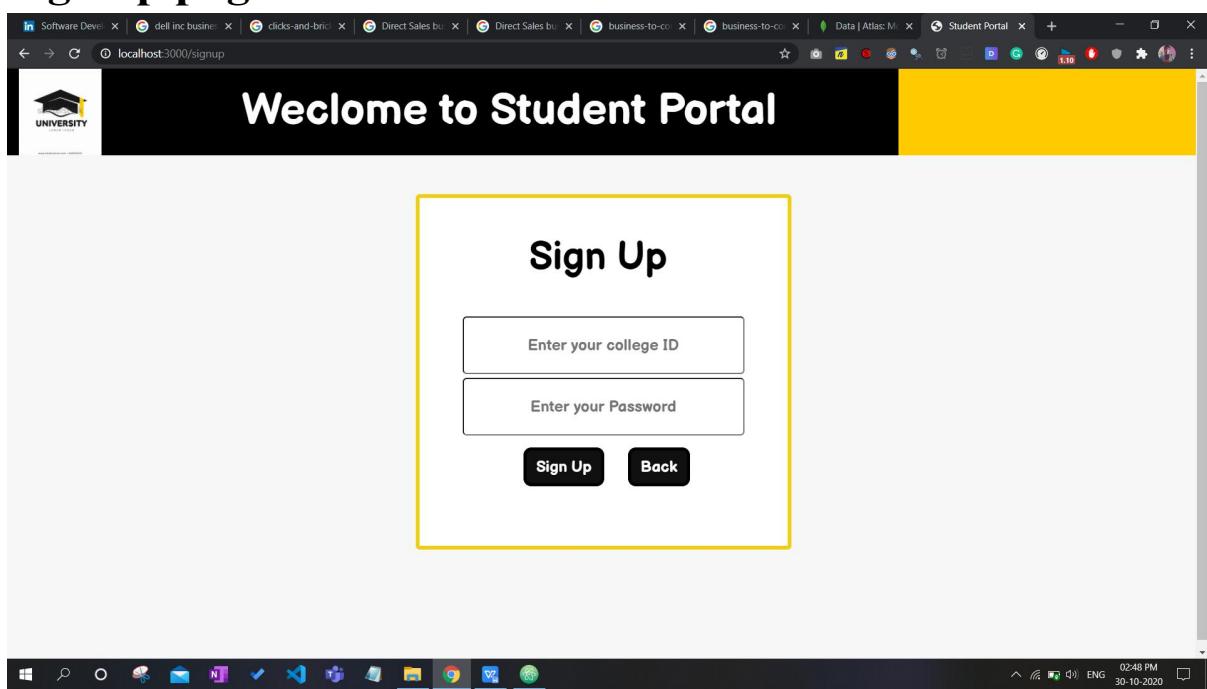
and columns to store data, Mongo db uses a more futuristic approach. It divided data to key value pairs and thus uses collections and documents to store data.c

## 6. EXPERIMENT/RESULTS

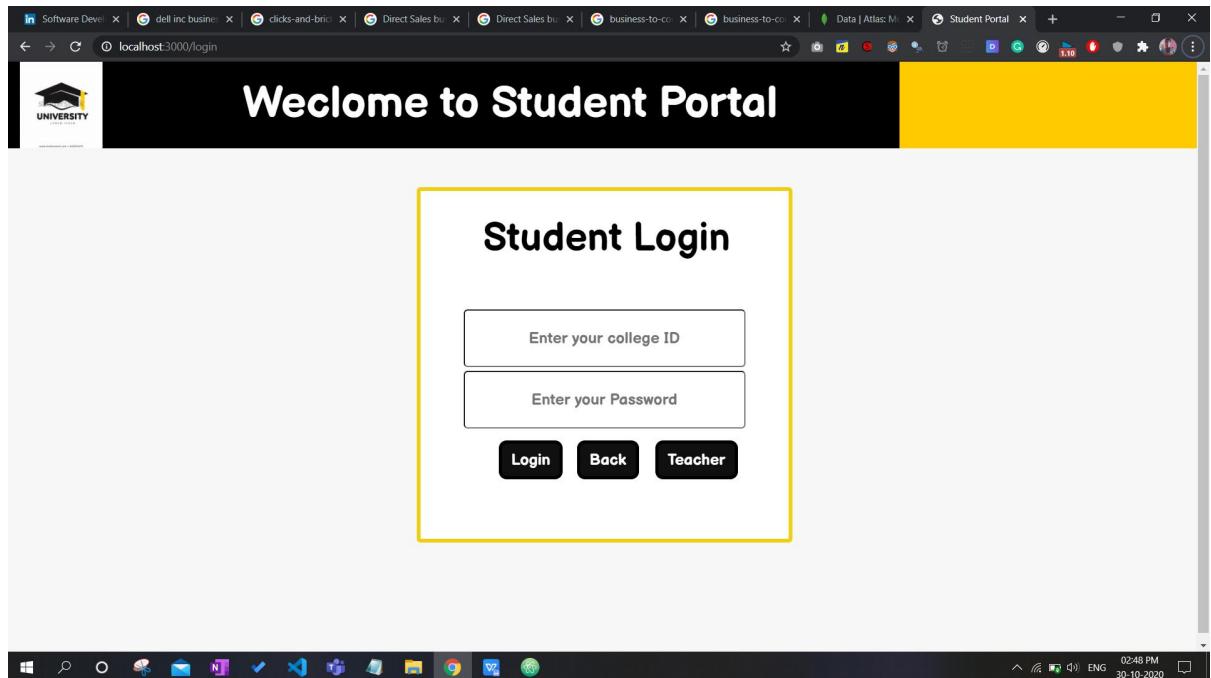
### Main page-



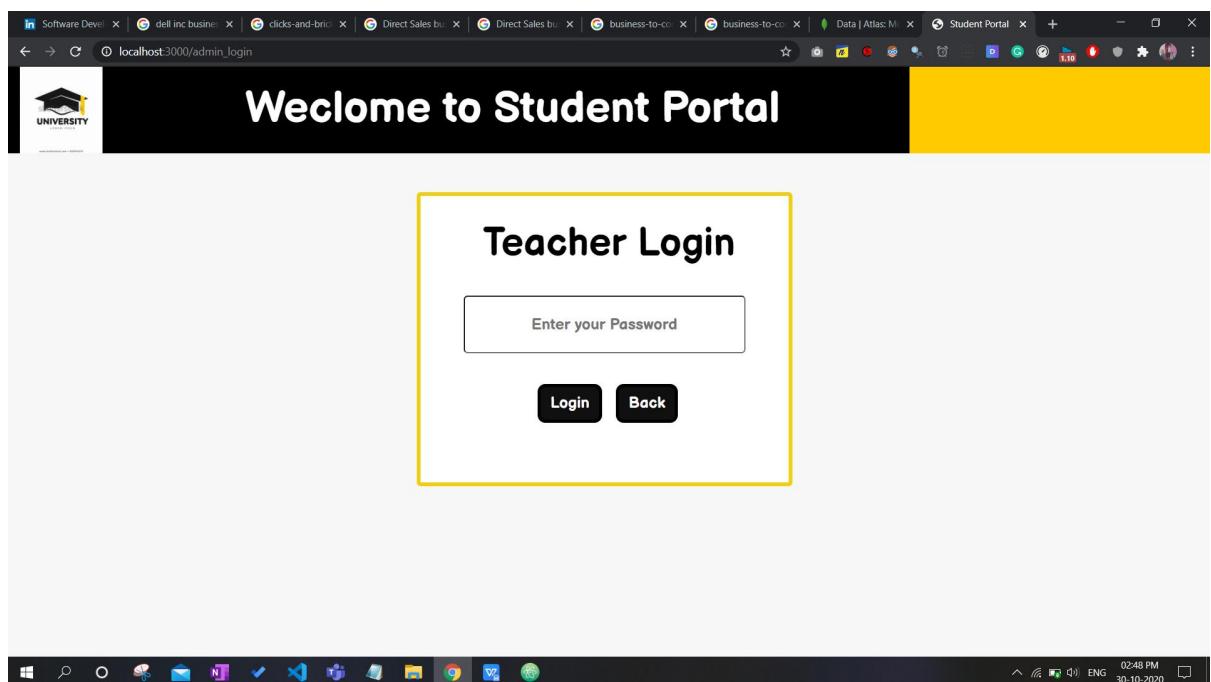
### Sign up page-



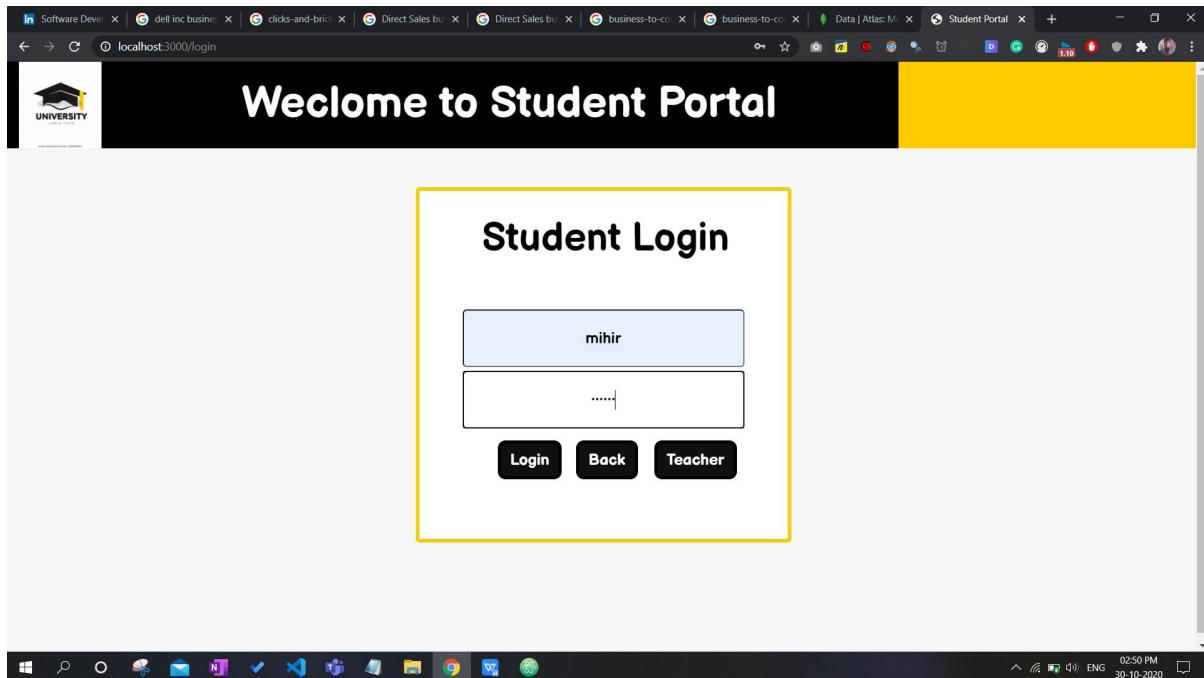
## User Login page-



## Teacher Login-

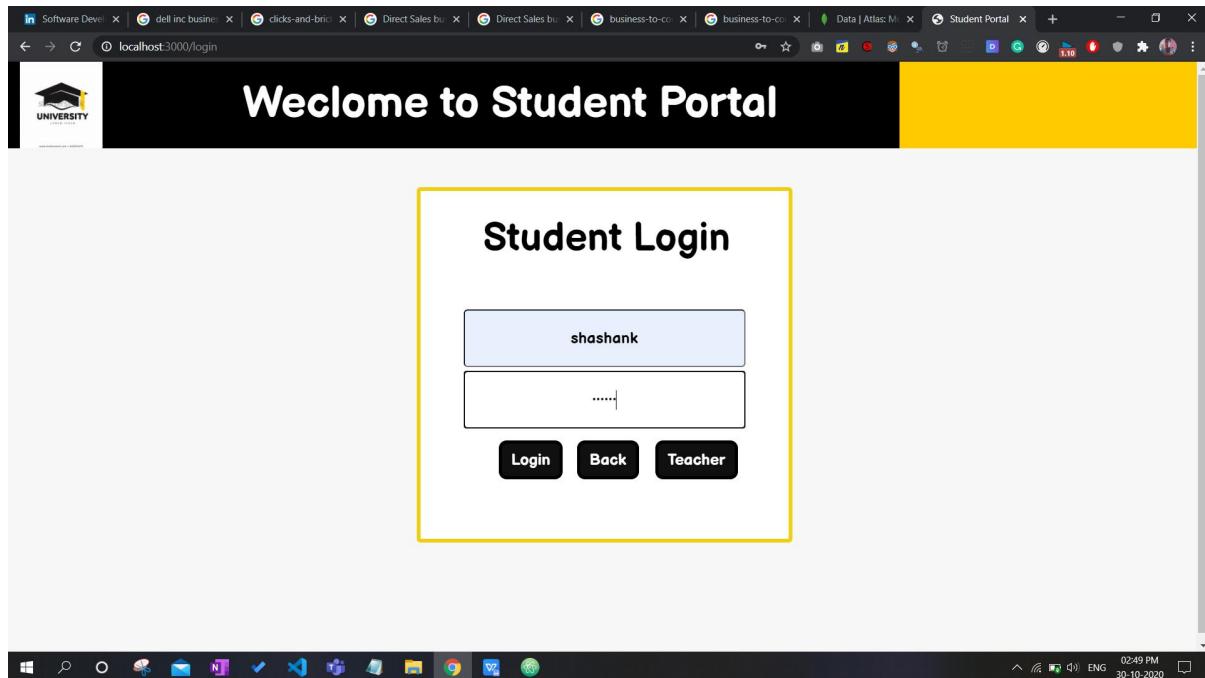


## Login from account of 1 user-



A screenshot of the 'Student Portal' home page. The title bar says 'localhost:3000/home'. The page includes a navigation sidebar with links like Home, Timetable, Faculty, Attendance, Course Page, Assignment, and About Us. The main content area displays 'Weclome Mihir to Student Portal Home' and 'Log OUT'. It features several cards: 'Student Information' (Firstname: Mihir, Lastname: Agarwal, Registration Number: 18BCE2526, Phone Number: 129838478, Email ID: mihir.agarwal1999@gmail.com, Stream: Computer Science, Current Sem: 5, CGPA: 8.6); 'Hostel Details' (Registration No: 18BCE2526, Hostel Block: 2 Bed, Block Name: L block, Mess Name: Aarasan, Mess type: Veg, Warden Incharge: Mr Veeran, Cheif Warden: Mr Lijo); 'Clubs/Chapters Activities' (Nutrition Club competition for growing vegetables/herbs, IEEE SAS recruitment for freshers and 2nd year students); and 'Highlights' (Announcements: Cat 2 will commence from 14th Sept'20; Deadlines for today: CSE2001-Theory DA 1, 2, 3; About VIT: VIT was established with the aim of providing quality higher education on par with international standards). The browser's taskbar at the bottom shows various open tabs and system icons.

## Login from account of 2 user-



The screenshot shows a web browser window titled "Weclome Shashank to Student Portal Home". The page features a sidebar with navigation links: Home, Timetable, Faculty, Attendance, Course Page, Assignment, and About Us. The main content area displays "Student Information" (Firstname: Shashank, Lastname: Shukla, Registration Number: 18BCE2522, Phone Number: 8279726437, Email ID: shashank.shukla1947@gmail.com, Stream: Computer Science, Current Sem: 5, CGPA: 8.92), "Hostel Details" (Registration No: 18BCE2522, Hostel Block: 2 Bed, Block Name: L block, Mess Name: Aarasan Caterers Mess, Mess type: Special Mess, Warden Incharge: Mr Veeramani, Cheif Warden: Mr Prem), and "Clubs/Chapters Activities" (Nutrition Club competition for growing vegetables/herbs, IEEE SAS recruitment for freshers and 2nd year students). On the right side, there is a "Highlight" section with announcements (Cat 2 commences 14th Sept'20, last date to pay academic fee is 10th Sept'20) and deadlines for today (CSE6001-Theory DA 1, CSE2001-Theory DA 2, CSE1001-Theory DA 3). The "About VIT" section provides information about the university's mission and history. The browser's address bar shows "localhost:3000/home". The taskbar at the bottom of the screen includes icons for various applications like File Explorer, Edge, and Task View.

# All remaining pages-

## Time Table –

The screenshot shows a web browser window titled "Time Table of Shashank". The header features a logo of a graduation cap and the word "UNIVERSITY". On the left, a sidebar menu includes links for Home, Timetable (which is highlighted in yellow), Faculty, Attendance, Course Page, Assignment, and About Us. The main content area is divided into five vertical columns representing the days of the week: Monday, Tuesday, Wednesday, Thursday, and Friday. Each column lists scheduled classes with their respective times and course codes. The background has a yellow and black color scheme.

Day	Schedule
Monday	• 8:00 - 9:00 • ALA (SJT 101)
Monday	• 9:00 - 10:00 • IWP (SJT 501)
Monday	• 10:00 - 11:00 • Web Mining (SJT 202)
Monday	• 11:00 - 12:00 • HCI (SJT 601)
Tuesday	• 8:00 - 9:00 • HCI (SJT 601)
Tuesday	• 9:00 - 10:00 • IWP(SJT 501)
Tuesday	• 10:00 - 11:00 • ALA (SJT 101)
Tuesday	• 11:00 - 12:00 • Web Mining (SJT 202)
Wednesday	• 8:00 - 9:00 • Web Mining (SJT 202)
Wednesday	• 9:00 - 10:00 • HCI (SJT 601)
Wednesday	• 10:00 - 11:00 • IWP (SJT 501)
Wednesday	• 11:00 - 12:00 • ALA (SJT 101)
Thursday	• 8:00 - 9:00 • HCI (SJT 601)
Thursday	• 9:00 - 10:00 • IWP (SJT 501)
Thursday	• 10:00 - 11:00 • Web Mining (SJT 202)
Thursday	• 11:00 - 12:00 • IWP (SJT 501)
Friday	• 8:00 - 9:00 • ALA (SJT 101)
Friday	• 9:00 - 10:00 • IWP (SJT 501)
Friday	• 10:00 - 11:00 • HCI (SJT 601)
Friday	• 11:00 - 12:00 • Web Mining (SJT 202)

## Faculty Info

The screenshot shows a web browser window titled "Faculty Info". The header features a logo of a graduation cap and the word "UNIVERSITY". On the left, a sidebar menu includes links for Home, Timetable (which is highlighted in yellow), Faculty, Attendance, Course Page, Assignment, and About Us. The main content area features a central illustration of a female teacher holding a book and a stick, with a circular background of mathematical symbols like X, Y, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. To the right, there is a section titled "Your Faculties" displaying six faculty profiles in boxes. Each profile contains a circular photo, the faculty's name, and their subject. The background has a yellow and black color scheme.

Name	Subject
Nalini N	CSE3002-IWP
Murali S	CSE3501-Nasscom
Preetha D	CSE4001-PDC
Sureshkumar N	CSE4004-DF
Udhaykumar R	MAT1013-Discrete

# Faculty Info

Search Faculties  Search

**Home**

**Timetable**

**Faculty**

**Attendance**

**Course Page**

**Assignment**

**About Us**

## Your Faculties

	Name : Nalini N Subject : CSE3002-IWP
	Name : Murali S Subject : CSE3501-Nasscom
	Name : Preetha D Subject : CSE4001-PDC
	Name : Sureshkumar N Subject : CSE4004-DF
	Name : Udhaykumar R Subject : MAT1013-Discrete

# Faculty Info

**Home**

**Timetable**

**Faculty**

**Attendance**

**Course Page**

**Assignment**

**About Us**

<b>Name of the Faculty</b>	Ms. NALINI N
<b>Designation</b>	Assistant Professor (Senior)
<b>Name of Department</b>	Department of Information Security
<b>School / Centre Name</b>	School of Computer Science and Engineering
<b>E-Mail Id</b>	nalini@vit.ac.in
<b>Cabin Number</b>	SJT-413-31A

**Open Hours :**

<b>Monday</b>	10:00 AM - 11:00 AM
<b>Thrusday</b>	04:00 PM - 05:00 PM

### Top Reviews







Software Devell... | dell inc busine... | clicks-and-bric... | Direct Sales bu... | Direct Sales bu... | business-to-co... | business-to-co... | Data | Atlass M... | Document | + | - | □ | X

localhost:3000/teacherinfo

## Faculty Info

 UNIVERSITY

Cabin Number : SJT-413-31A

Open Hours :

Monday : 10:00 AM - 11:00 AM

Thursday : 04:00 PM - 05:00 PM

Top Reviews

 Mihir She is the best teacher for Web Programming 	 Shashank She is the best teacher for Web Programming 	 Mahima She is the best teacher for Web Programming 	 Rohan She is the best teacher for Web Programming 	 Add a Review 
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Windows taskbar: 02:51 PM 30-10-2020

## Attendance

Software Devell... | dell inc busine... | clicks-and-bric... | Direct Sales bu... | Direct Sales bu... | business-to-co... | business-to-co... | Data | Atlass M... | Attendance | + | - | □ | X

localhost:3000/attendance

## Attendance Display

 UNIVERSITY

Home

Timetable

Faculty

Attendance (highlighted)

Course Page

Assignment

About Us

CSE3002 Internet and Web Programming		
Attended Classes	Total Classes	Attendance Percentage
18	18	100

CSE3002 Internet and Web Programming		
Attended Classes	Total Classes	Attendance Percentage
18	18	100

CSE3002 Internet and Web Programming		
Attended Classes	Total Classes	Attendance Percentage
18	18	100

CSE3002 Internet and Web Programming		
Attended Classes	Total Classes	Attendance Percentage
18	18	100

Windows taskbar: 02:51 PM 30-10-2020

# Course Page

The screenshot shows a web browser window titled "Course Page" at the URL "localhost:3000/coursepage". The page has a dark header bar with the title and a yellow sidebar on the left. The sidebar contains links for Home, Timetable, Faculty, Attendance, Course Page (which is highlighted), Assignment, and About Us. The main content area displays a grid of six course modules, each with a yellow border:

Web Mining	Web Mining	Web Mining
Module-1, Web Content Mining	Module-1, Web Content Mining	Module-1, Web Content Mining
<input type="button" value="View Details"/>	<input type="button" value="View Details"/>	<input type="button" value="View Details"/>

Web Mining	Web Mining	Web Mining
Module-1, Web Content Mining	Module-1, Web Content Mining	Module-1, Web Content Mining
<input type="button" value="View Details"/>	<input type="button" value="View Details"/>	<input type="button" value="View Details"/>

Web Mining	Web Mining	Web Mining
Module-1, Web Content Mining	Module-1, Web Content Mining	Module-1, Web Content Mining
<input type="button" value="View Details"/>	<input type="button" value="View Details"/>	<input type="button" value="View Details"/>

The taskbar at the bottom shows various application icons and the system clock indicating 02:51 PM on 30-10-2020.

# Assignments

The screenshot shows a web browser window titled "Submit Assigment" at the URL "localhost:3000/submit". The page has a dark header bar with the title and a yellow sidebar on the left. The sidebar contains links for Home, Timetable, Faculty, Attendance, Course Page (which is highlighted), Assignment, and About Us. The main content area displays a grid of six assignment submissions, each with a yellow border:

Web Mining	Web Mining	Web Mining
Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen	Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen	Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen

Web Mining	Web Mining	Web Mining
Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen	Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen	Digital Assignment-1 Submit report of topics studied under first lab. Perform various rules taught. <input type="button" value="Choose file"/> No file chosen

The taskbar at the bottom shows various application icons and the system clock indicating 02:51 PM on 30-10-2020.

# About Developers

The screenshot shows a web browser window with the URL [localhost:3000/about](http://localhost:3000/about). The page has a black header with the title "About Developers" and a yellow sidebar. On the left, there's a sidebar with links: Home, Timetable, Faculty, Attendance, Course Page, Assignment, and About Us. Below the sidebar are four developer profiles:

- Shashank Shukla**  
Web Developer & Data Science  
He is highly energetic and motivated individual. He is highly skilled in Data Science and Web development.  
[LinkedIn](#) [Github](#)
- Mihir Agarwal**  
Web Developer & App Dev  
He is highly energetic and motivated individual. He is highly skilled in App Dev and Web development.  
[LinkedIn](#) [Github](#)
- Mahima**  
Web Developer  
She is highly energetic and motivated individual. She is highly skilled in Web development.  
[LinkedIn](#) [Github](#)
- Rohan Barsaiyan**  
Web Developer  
He is highly energetic and motivated individual. He is highly skilled in Web development.  
[LinkedIn](#) [Github](#)

## Plagiarism info for the faculty

### File upload from user 1-

The screenshot shows a Windows file explorer window open to the directory `This PC > Software (E) > C > Python > IWP_Project`. The file list includes various Python files and folders like `idea`, `_pycache_`, `check`, `data func`, `test`, `test0`, `test1`, etc.

Below the file explorer are two file input fields with yellow borders, each labeled "Choose file No file chosen". To the right of these fields are two yellow-bordered boxes containing assignment details:

- Web Mining**  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
 Choose file No file chosen
- Web Mining**  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
 Choose file No file chosen

Submit Assignment

UNIVERSITY

- Home
- Timetable
- Faculty
- Attendance
- Course Page
- Assignment
- About Us

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file test0.txt

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file No file chosen

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file No file chosen

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file No file chosen

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Choose file No file chosen

## File upload from user 2-

Submit Assignment

UNIVERSITY

- Home
- Timetable
- Faculty
- Attendance
- Course Page
- Assignment
- About Us

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file test1.txt

Web Mining  
Digital Assignment-1  
Submit report of topics studied under first lab. Perform various rules taught.  
Choose file No file chosen

Web Mining  
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Web Mining  
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Submit report of topics studied under first lab. Perform various rules taught.  
Choose file No file chosen

Both the files in database, uploaded as chunks-

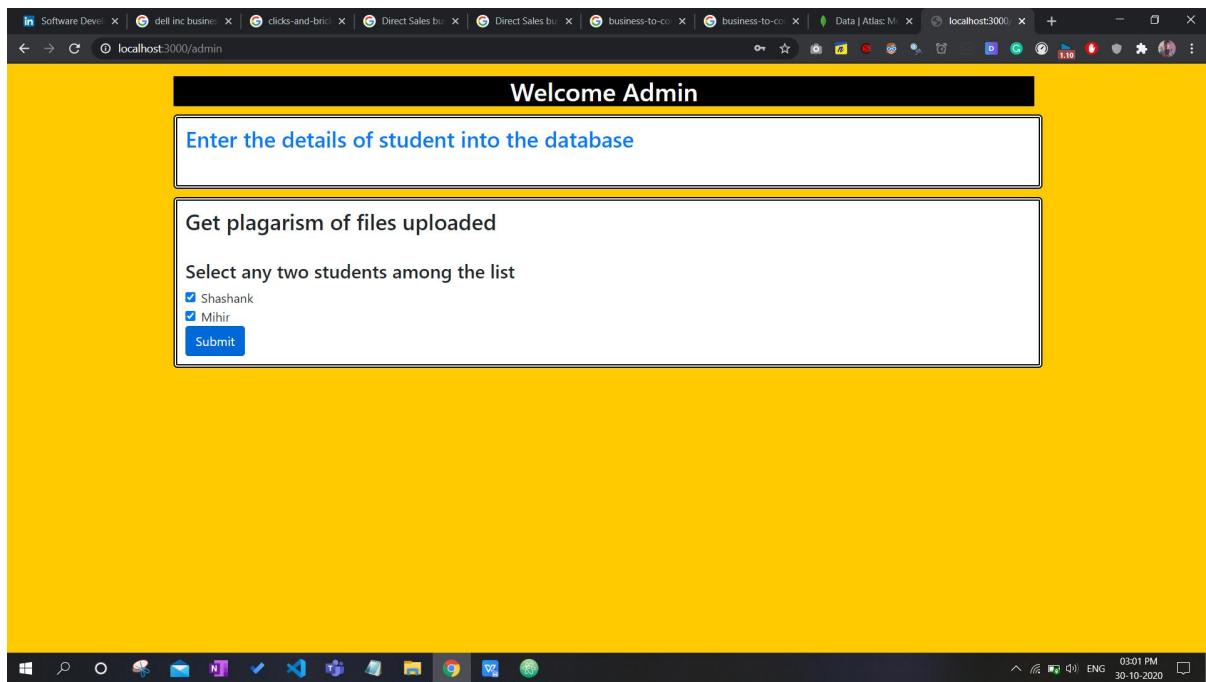
The screenshot shows the MongoDB Atlas interface with the 'todo/uploads.files' collection selected. The collection has a size of 2.04KB and contains 11 documents. The results show two documents with their details:

```
_id: ObjectId("5f9fa234e7923713ad8d88e8e")
length: 352
chunkSize: 251538
uploadedAt: 2020-10-29T02:05:03.083+00:00
filename: "3eb0d75aa6ba06bb4c4dbcc130af42bf.txt"
md5: "7bdafef09257caf3df4b57fdfa64eb8391"
contentType: "text/plain"

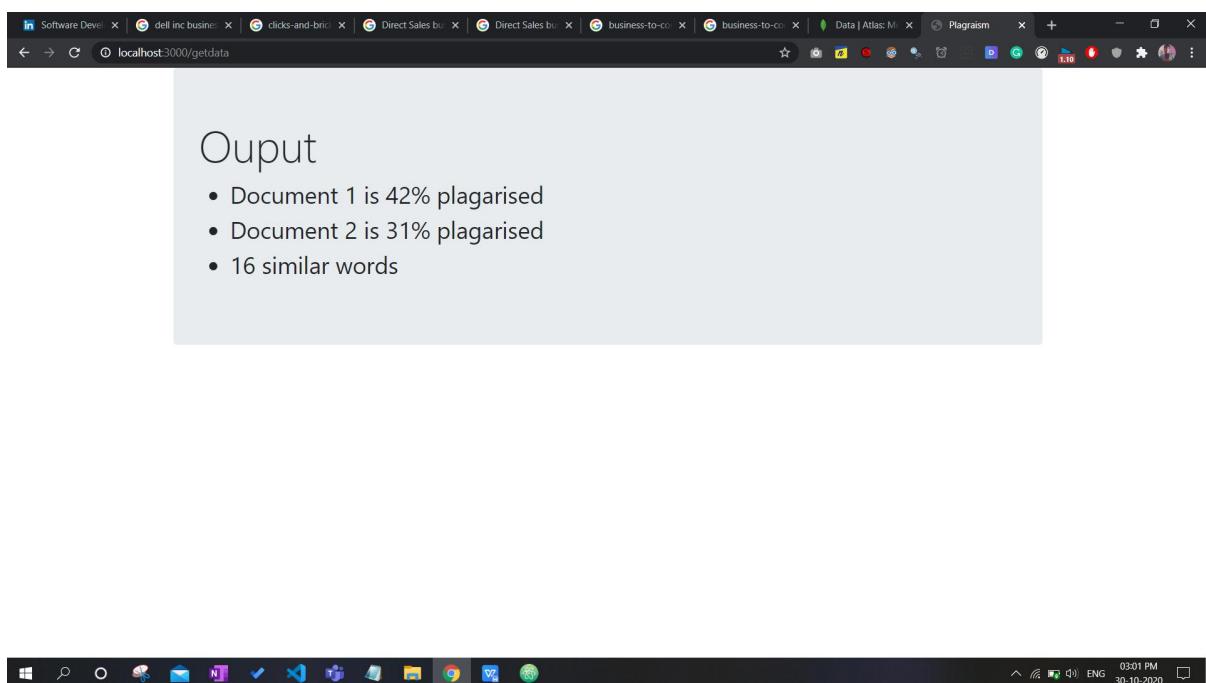
_id: ObjectId("5f9fa23697923713ad8d88e91")
length: 542
chunkSize: 251538
uploadedAt: 2020-10-29T02:05:29.571+00:00
filename: "38aa02820d9076d7969142006532c558.txt"
md5: "4e1993aeafdb2386cafb652422d71b92f"
contentType: "text/plain"
```

## To check plagiarism from teacher login-

The screenshot shows the 'Teacher Login' page of the Student Portal. The page features a logo on the left and a large yellow-bordered input field for the password. Below the input field are two buttons: 'Login' and 'Back'.



## Final output of plagiarism displayed on web page-



## Plagiarism on online website for the same 2 documents uploaded-

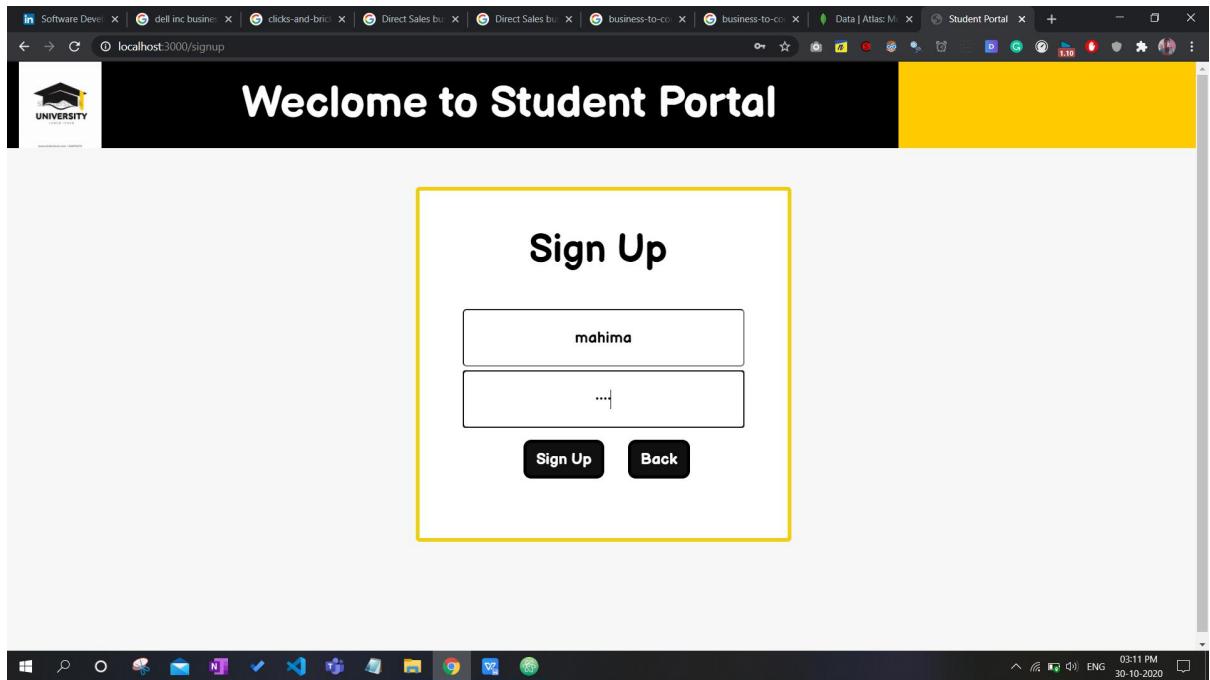
The screenshot shows the CopyLeaks Text Compare application. On the left sidebar, there are links for 'New Scan', 'Scans', 'Recent Scans', 'Teams', 'Repositories NEW', 'Text Compare' (which is selected and highlighted in grey), 'Compare Sites', and 'Explore CopyLeaks'. The main content area is titled 'Text Compare' and contains the sub-section 'Compare Multiple Text Files'. It shows two slots for files: 'FILE 1' containing 'test0.txt' and 'FILE 2' containing 'test1.txt'. A button '+ ADD SLOT' is located at the top right of the file comparison section. The bottom of the screen shows a Windows taskbar with various icons and the system tray indicating the date and time as 30-10-2020 at 03:02 PM.

## Output-

The screenshot shows the 'Result' page of the CopyLeaks Text Compare tool. At the top, it displays 'SCAN PROPERTIES ^' with a pie chart showing the distribution of words: 'Identical' (41.4%), 'Minor changes' (1.7%), 'Related meaning' (0%), and 'Omitted Words' (0%). To the right, a large yellow box highlights '43.1% MATCH'. Below this, the 'SUBMITTED TEXT' section shows the input text: 'Industrial Disease Private Investigations So Far Away Twisting by the Pool Skateaway Walk of Life Romeo and Juliet Tunnel of Love Money for Nothing Sultans of Swing Achilles Last Stand Whole Lotta Love Immigrant Song When The Levee Breaks Since I've Been Lovin' You Since I've Been Loving You Over the Hills and Far Away Dazed and Confused'. The 'SUSPECT' section shows the detected plagiarism: 'Data at Rest It includes scanning of storage and other content repositories to identify where sensitive content is located . We call this content discovery . For example , you can use a DLP product to scan your servers So Far Away Twisting by the Pool Skateaway Walk of Life Romeo and Juliet Tunnel of Love Money for Nothing Sultans of Swing Achilles and identify documents with credit card numbers . If the server isn't authorized for that kind of data , the file can be encrypted or removed or a warning sent to the file owner .' The bottom of the screen shows a Windows taskbar with various icons and the system tray indicating the date and time as 30-10-2020 at 03:04 PM.

We can see result is almost same, its 25 in website as they are comparing stop words like “the”, “or”, “and” also but we have removed them compared only core words hence its actually 16.

## Registering new user-



## Details gets added into database-

The screenshot shows the MongoDB Atlas interface with a query result for "users". The results show three documents with their \_id, username, salt, hash, and \_v fields. The first document is for "shashank" and the second for "mahiru".

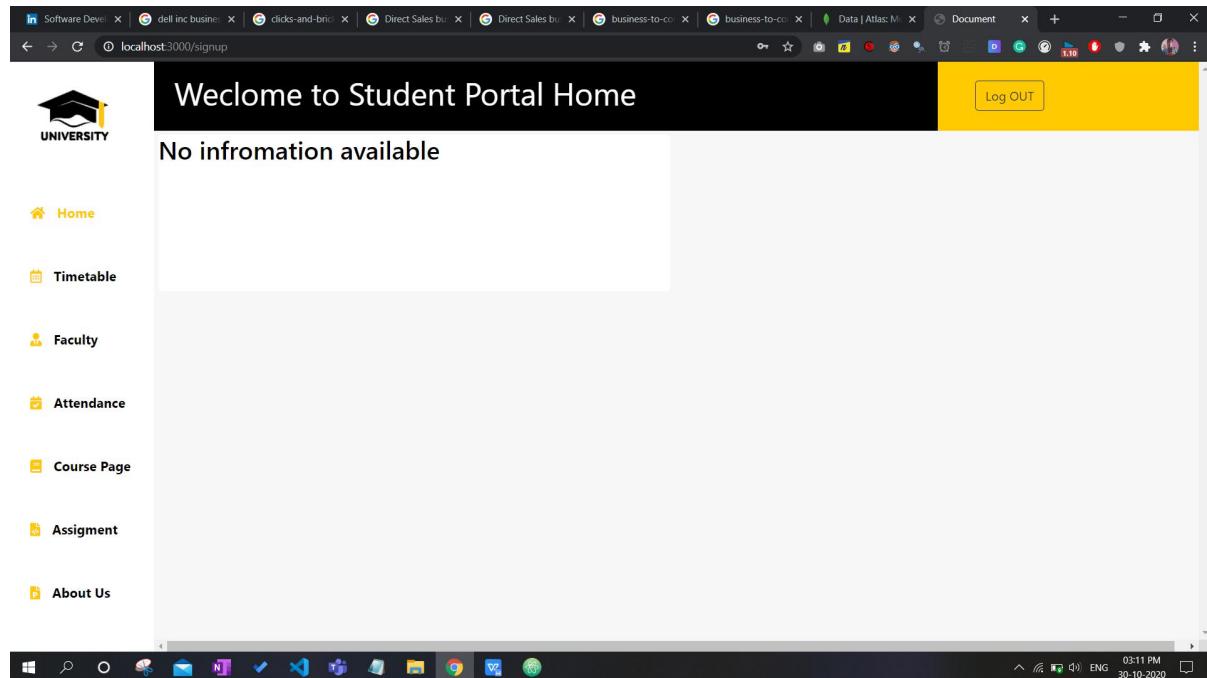
```
_id: ObjectId("5f983e3c51af0240c095eeff")
username: "shashank"
salt: "1ds542df88252da1886e9acc20b94195d079073b7237ffaa421b6277b8aa6a14"
hash: "01fbba56e0d7e9ce2702987c4cc036ef9c842f5d3cdc74230fbcbbe81fdb73ff121..."
__v: 0

_id: ObjectId("5f9841643fb505d44f3d9950")
username: "mahiru"
salt: "fd988308aa0c5b6ccfb83fe81be198fc6d8047522abfda178cf221ef743f543c"
hash: "b10b1618d5fe6cc528ed3996c94ec0cbc000121c74d1397e83dad56187612f89d422499...
__v: 0

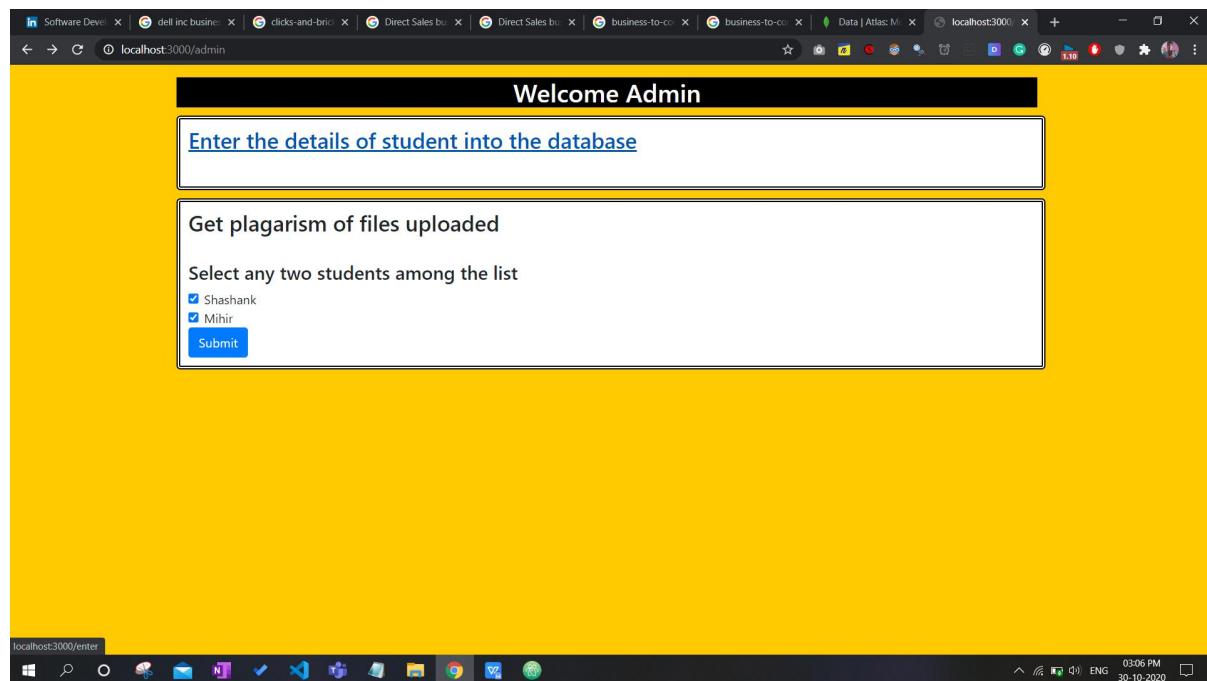
_id: ObjectId("5f98a3fc0ade2b239b4f7f75e")
username: "mahima"
salt: "6da76e5fc59fc986d7e35ad6df1aaa3864a30ca0ecd380633a427591daf6b077"
hash: "82e99da5e23c5a3cb0fc9847a9c10af9c9bba7ef95d2fse97857b96c25b438327e973...
__v: 0
```

At the bottom, there are links for "Feature Requests", "System Status: All Good", and copyright information: "©2020 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales". The taskbar at the bottom shows application icons and the system status.

## No information for new user-



## Entering data for new user from teachers login-



**Enter Details**

**Username**  
mahima

**First Name**  
Mahima

**Last Name**  
Singh

**Registration No.**

**Last Name**  
Singh

**Registration No.**  
18BCE2322

**Phone Number**  
123456678

**Email**  
mahima.singh@vitstduent.ac.in

**Stream**  
CSE

**Current Sem**  
5

localhost:3000/enter

5

CGPA  
8.8

**Enter hostel details**

Hostel Type  
4 bed

Block Name  
H block

Mess Name  
Arasan

Mess type  
Special

03:09 PM  
30-10-2020

localhost:3000/enter

Mrs. Sudha

Chief warden  
Mrs. Anupriya

**Enter deadlines**

Enter deadline 1  
CSE4001-Theory DA 1

Enter deadline 2  
CSE4001-Theory DA 2

Enter deadline 3  
CSE2001-Theory DA 3

Submit

03:09 PM  
30-10-2020

## Details are added dynamically into homepage-

The screenshot shows a student portal homepage titled "Weclome Mahima to Student Portal Home". On the left, there's a sidebar with links like Home, Timetable, Faculty, Attendance, Course Page, Assignment, and About Us. The main content area has several yellow-highlighted sections: "Student Information" (Firstname: Mahima, Lastname: Singh, Registration Number: 18BCE2322, Phone Number: 123456678, Email ID: mahima.singh@vitstudent.ac.in, Stream: CSE, Current Sem: 5, CGPA: 8.8), "Hostel Details" (Registration No: 18BCE2322, Hostel Block: 4 bed, Block Name: H block, Mess Name: Arasan, Mess type: Special, Warden Incharge: Mrs. Sudha, Cheif Warden: Mrs. Anupriya), and "Clubs/Chapters Activities" (two bullet points about Nutrition Club and IEEE SAS). To the right, there's a "Highlights" section with "Announcements" (Cat 2 will commence from 14th Sept'20. Refers Dean's mail for more details) and "Deadlines for today" (CSE4001-Theory DA 1, CSE4001-Theory DA 2, CSE2001-Theory DA 3). Below that is an "About VIT" section with a brief history and mission statement. The bottom status bar shows system information like battery level, signal strength, and date/time.

## Data added into the database successfully-

The screenshot shows the MongoDB Atlas interface with a document in the "Todos" collection. The document has the following structure:

```
_id: ObjectId("5f9bdf5648cddfe3634d39787")
username: "mahima"
studentinfo: Object
  fname: "Mahima"
  lname: "Singh"
  rno: "18BCE2322"
  pno: 123456678
  email: "mahima.singh@vitstudent.ac.in"
  stream: "CSE"
  csem: 8.8
  hdetails: Object
    type: "4 bed"
    hblock: "H block"
    name: "Arasan"
    mtype: "Special"
    wincharge: "Mrs. Sudha"
    cheif: "Mrs. Anupriya"
deadline: Object
  d1: "CSE4001-Theory DA 1"
  d2: "CSE4001-Theory DA 2"
  d3: "CSE2001-Theory DA 3"
_v: 0
```

At the bottom, the status bar indicates "All Good" and shows the date/time as 03:12 PM on 30-10-2020.

## **7. CONCLUSION /FUTURE WORK**

It is an advantage for the consumers whose considerable time and energy is maintained, for the authority of the affected educational college whose workload is significantly reduced, whose facilities are shielded from misuse. This system will also be used to view the full syllabus/course material, update the user's information(only by the faculty). Using this site will dramatically minimise the sharing of engineering document time. The teacher will be able to check the novelty of the work uploaded by the student using the plagiarism checker.

This project's concept is to get rid of the manual method and create a Paperless labour. It can be remotely monitored and managed. This decreases the human power needed and provides reliable data. Details can be stored and accessed at any time. So, it's easier to have a framework based on the Internet. The required information can be obtained without delay by all stakeholders, faculty and management. In colleges and universities, this system is quite essential, useful and mandatory.

### **Future Work:**

We plan to extend the portal for parents as well, so that they can keep a track of their child's academics status. We thus plan to introduce a parent login as well.

We aim to extend this facility for the hostel staff as well so that the portal can be used for applying and approving leaves etc.

Apart from the academic facilities we aim to extend the project to allow transfer of fees, to keep a record of the receipts and any other outstanding dues.

## **8. REFERENCES**

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