

TEST SUITE

ONLINE CLASSROOM

MANAGEMENT

SYSTEM (OCMS)

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Student CLASS

1. Student Sign Up:

- Construction

- Empty Fields

| Name | Roll No. | Department | Email | Username | Password | Confirm Password |
|------|----------|------------|-------|----------|----------|------------------|
| ccc | ccc | ccc | ccc | ccc | ccc | ccc |

OUTPUT - Ask to fill the field for Name, Roll No., Department, Email, Username, Password and Confirm Password

- Invalid Characters

| Name | Roll No. | Department | Email | Username | Password | Confirm Password |
|-----------------------------|-------------|------------|-------------|------------------|----------|------------------|
| “hcccs i?? kum ar” | “ikbjaca23” | “cse” | “ikbjaca23” | “abkjbcika d” | “sunscr” | “sunscr” |

OUTPUT - Will not accept as email is of invalid type.

- Correct Parameters

| Name | Roll No. | Department | Username | Password | Confirm Password |
|----------|----------|------------|-----------|------------------------|------------------------|
| “Ashish” | 5 | 9632587417 | “Ashish_” | “Ashish_@ 12keshav” | “Ashish_@ 12keshav” |

OUTPUT - Student details were saved in the database without any exceptions.

2. User Login:

- Construction
 - Invalid Parameters

| | | |
|----------|--|--------------|
| Username | | Password |
| | | “0123456789” |

OUTPUT - Page will refresh but will not login

- Correct Parameters

| Username | Password |
|----------|--------------|
| “kcj2” | “harsh2020#” |

OUTPUT - No exceptions raised. Unique username assigned to the user.
Database queried for users with that username. Only 1 user returned.

- Methods
 - Verify Password

Uses the login interface. Check the test suite for the same in the interfaces section.

3. Student Update PROFILE View:

- Construction

- Pass correct parameters for parent class (see correct parameters in user class), incorrect parameters for city

| Name | Roll No. | Email | Phone | bio | change image (button) (optional) |
|----------------|----------|----------------------|-------|-----------|--|
| “itkg p2ee” | 1287 | “efwj @gmail.com” | “” | “rkbfrkg” | — |

OUTPUT - Will ask for phone no

- Pass all correct parameters

| Name | Roll No. | Email | Phone | bio | change file (button) (optional) |
|-------------------------|----------|-----------------------|---------------|---------------|---------------------------------------|
| “Ashishiitkg p2020#” | 234 | “ “jfn@gmail.com”” | “96325394941” | “ Assignment” | uploaded file |

OUTPUT - No exceptions raised.

6.

Invalid class code:

| |
|----------|
| Code |
| “lasjfj” |

Output : will not join class

For correct class code:

| |
|------|
| Code |
| 1234 |

OUTPUT- No exception raised

Teacher CLASS

1. Teacher Sign Up:

- Construction
 - Empty Fields

| Name | Subject name | Email | Username | Password | Confirm Password |
|------|--------------|-------|----------|----------|------------------|
| | | | | | |

OUTPUT - Exception raised for Name, Subject name, Email, Username, Password and Confirm Password.

- o Invalid Characters

| Name | Subject name | Email | Username | Password | Confirm Password |
|------------|--------------|-------------------|------------|----------|------------------|
| “fwfgt KR” | “gfklnstery” | “Amit@gm ail.com” | “amit5656” | “amit78” | “amit78” |

OUTPUT - Exception raised for 2 fields(password & confirm password) for being of invalid type.

- o Correct Parameters

| Name | Subject name | Email | Username | Password | Confirm Password |
|------------|--------------|-----------------|-----------|-----------------|------------------|
| “fwfgt KR” | “cse” | “ht@gm ail.com” | “fwkjf56” | “jan78@qwe rty” | “jan78@q werty” |

OUTPUT - Teacher Details were saved in the database without any exceptions.

2. User Login:

- Construction

- o Invalid Parameters

| Username | Password |
|--------------|----------|
| “Amit78#%\$” | “” |

OUTPUT - Page will refresh but will not login

- o Correct Parameters

| Username | Password |
|----------|----------|
| "abrew" | "zzz" |

| Username | Password |
|----------|-----------------|
| “lknfw” | “lkmA78\$CK;M%” |

OUTPUT - No exceptions raised. Unique username assigned to the user.
Database queried for users with that username. Only 1 user returned.

○

4. Teacher Update Profile View:

- Construction
 - Pass correct parameters for parent class (see correct parameters in user class), incorrect parameters for city

| Name | Department | Mail id | Mobile | bio | website | Change file(button) |
|--------|------------|------------------|--------|---------|--------------------------|---------------------|
| “diue” | “ed” | “iufee@gmail.com | “” | “ewqwd” | “https://www.google.com” | - |

OUTPUT - Exceptions raised for empty phone fields.

- Pass all correct parameters

| Name | Department | Mail-id | Mobile | bio | website | Change file(button) |
|--------|------------|-----------------|----------|------------------|--------------------------|---------------------|
| Ashish | cse | Ashis@gmail.com | 03858295 | lskdajgfaj;kmngk | https://www.youtube.com/ | uploadfile |

OUTPUT - No exceptions raised.

5. Create Classroom:

| Course id | Name | Description | Room code |
|-----------|------|-------------|-----------|
| “aiadd” | “ds” | “Very hard” | “” |

Output- Exception raised for empty entry for room code

| Course id | Name | Description | Room code |
|------------|-------------|----------------------------|------------|
| “ Algo-12” | “Algorithm” | “ Data structure studying” | “Algo123#” |

Output-No exception raised

Upload File :

- o Constructor

| |
|-------------|
| Choose File |
|-------------|

OUTPUT - Exception raised because No file chosen.

| |
|-------------|
| Choose File |
|-------------|

Notes_6.pdf

OUTPUT -No Exception raised.

Upload Lecture :

- o Constructor

| |
|-------------|
| Choose File |
|-------------|

OUTPUT - Exception raised because No file chosen.

| |
|-------------|
| Choose File |
|-------------|

Lecture.mp3

OUTPUT -No Exception raised.

INTERFACES

1. Login Interface:

Let the passwords of the following users** be as stated (for testing purposes only)

- edm - "pass1"

- eded - "pass4"

- ede - "pass3"

- fef -student

Login function: bool Login (unique id, password, type)

- Testing teacher

| Unique name | Password | Type | Output |
|-------------|----------------------|---------------------|--------|
| edm | pass1 | Teacher | True |
| eded | pass2 (incorrect) | teacher | False |
| ede | pass1 | Teacher | False |
| jp | pass2 (incorrect) | teacher | False |
| fef | pass1 | student (incorrect) | False |

Let the passwords of the following users** be as stated (for testing purposes only)

- fejn - "pass5"
- weda78 - "pass6"
- r5 - teacher - "pass10"

- Testing student

| Unique name | Password | Type | Output |
|-------------------------|-------------------|------------------------|--------|
| fejn | pass5 | Student | True |
| fejn | pass3 (incorrect) | Student | False |
| weda7845 (incorrect) | pass2 | Student | False |
| weda7845 (incorrect) | pass3 (incorrect) | Student | False |
| r5 | pass10 | Teacher (incorrect) | False |

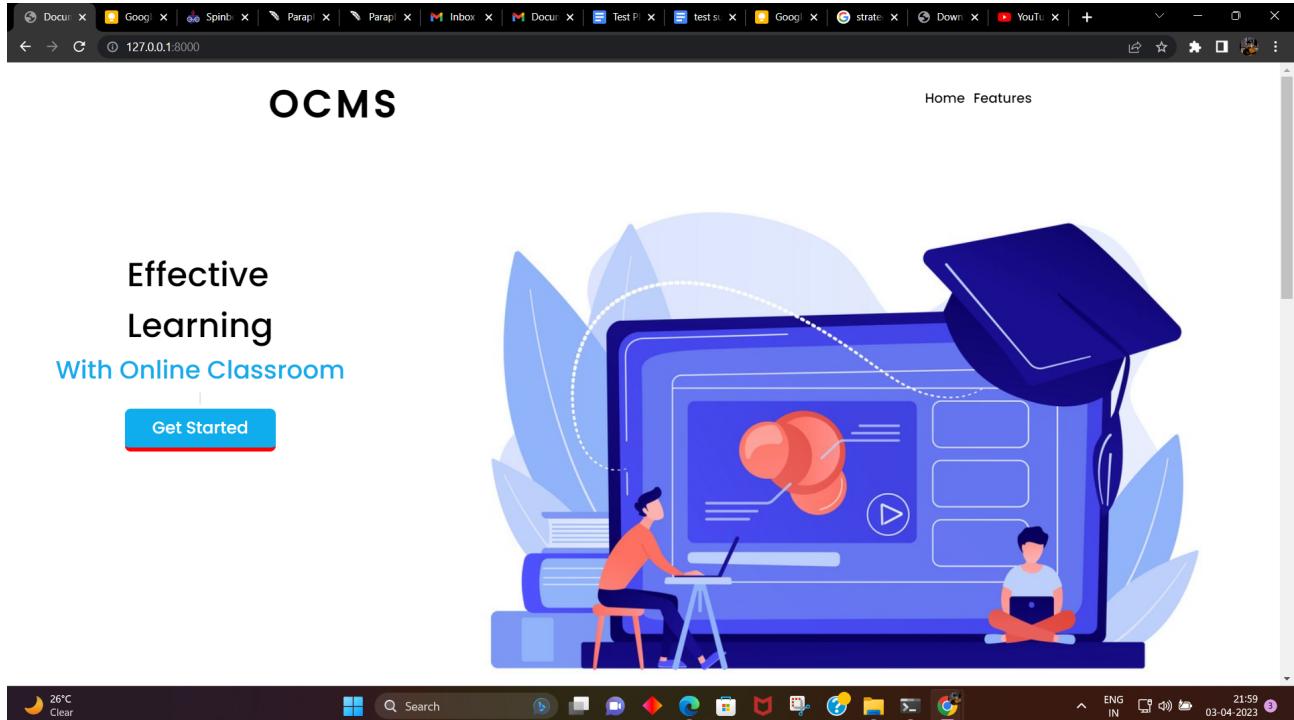
2. Signup Interface:

Signup of the following users with all correct fields and username is tested on an initially empty database:

| username | Type | Output |
|----------|---------|---|
| jamun | Student | (True, “Signup successful”) |
| HANU | Teacher | (True, “Signup successful”) |
| jamun | Student | (False, “Student with given username already exists”) |
| HANU | Teacher | (False, “Teacher with given username already exists”) |

INTERFACE TESTING

Home Page:



127.0.0.1:8000

FEATURES

"e-learning doesn't just "happen"! it requires carefull planning and implementation.



EDUCATION

Encourages educators to use online teaching tools for creating a new methodology of teaching which focuses on involvement



EDUCATION

Online assignments can take many forms, from quizzes and tests to essays and research projects. One of the benefits of online assignments is that they can be completed from



EDUCATION

A single place for all Educators can interact with their students through various channels for effective communication and doubt solving



EDUCATION

Encourages educators to use online teaching tools for creating a new methodology of teaching which focuses on involvement Around-the-clock support is provided.



EDUCATION

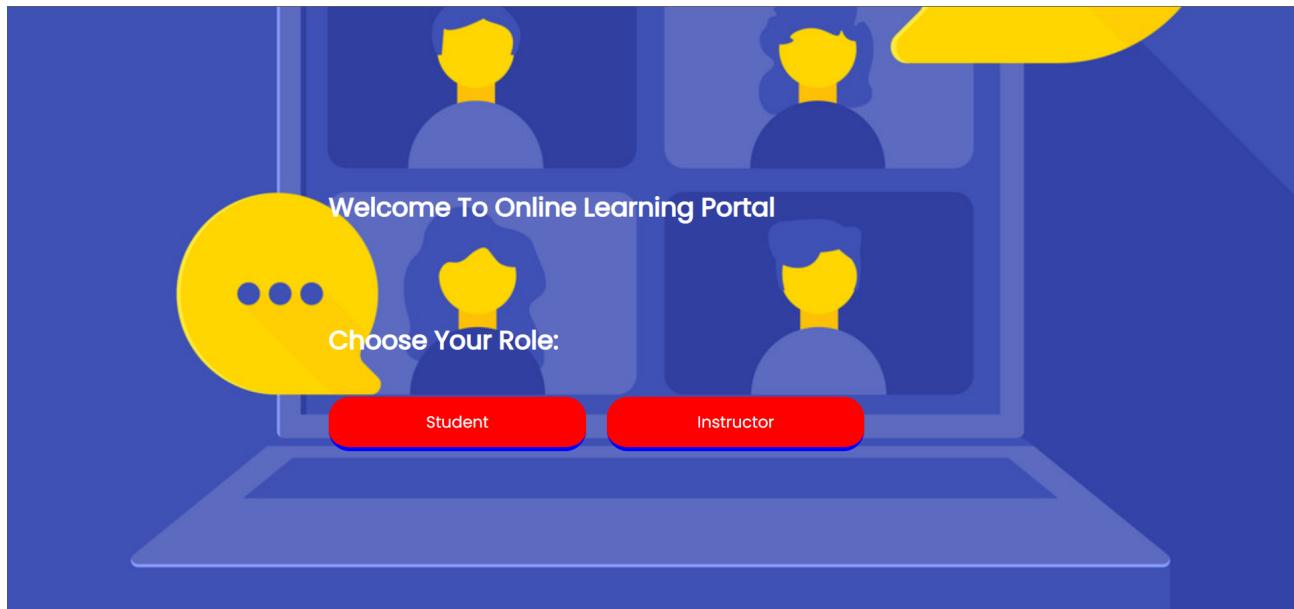
Encourages educators to use online teaching tools for creating a new methodology of teaching which focuses on involvement



EDUCATION

Encourages educators to use online teaching tools for creating a new methodology of teaching which focuses on involvement

26°C Clear Search ENG IN 21:59 03-04-2023



Input:

Select whether the user is a student or teacher.

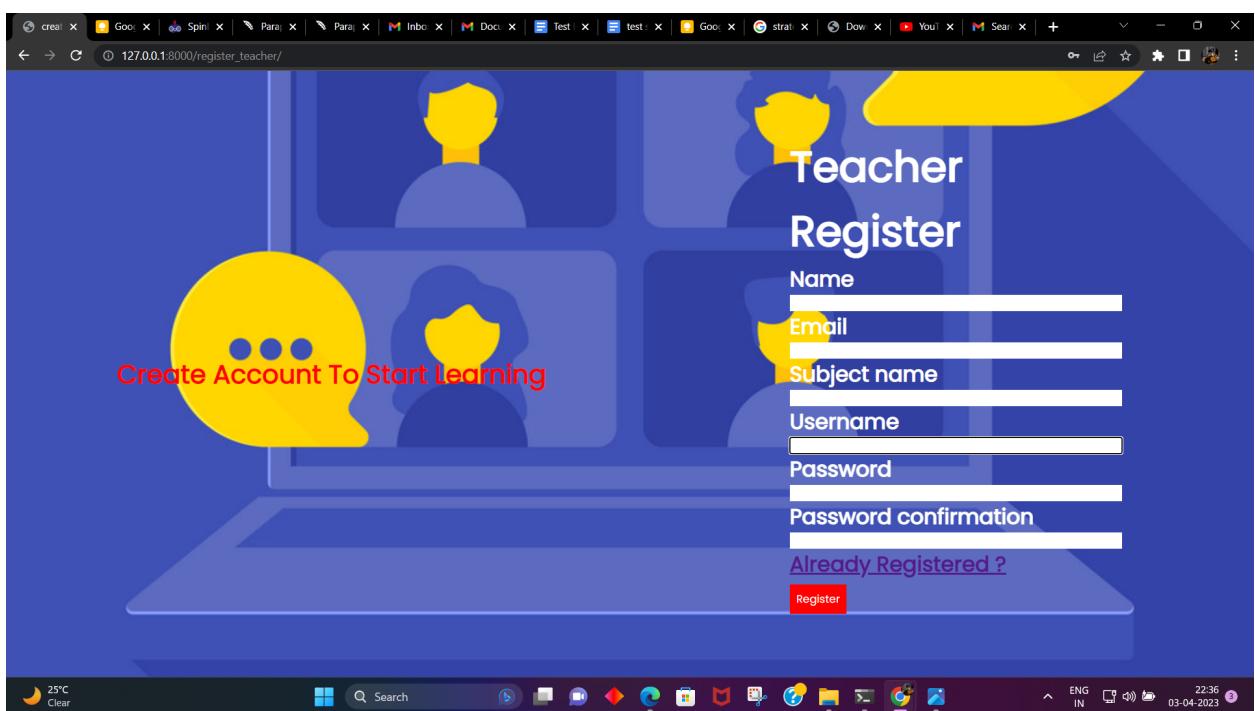
Output:

If ‘teacher’ is selected, the user is redirected to the teacher Login Page.

If ‘student’ is selected, the user can view the student interface

Sign Up Page:

Teacher Sign Up Page:



Input:

Takes in Teacher's Name,Email,Subject Name ,Username, Password and asks for confirmation of the password.

Expected Output:

Users should be able to create an account with the details given during signing up

Effective Result: If the required details are valid then only the professor will be able to create an account. If Password and confirm password does not match then, it will pop up an error message.

Student Sign Up Page:

The screenshot shows a web browser window with a blue-themed 'Student Register' form. The page title is 'Student Register'. On the left, there's a yellow speech bubble icon containing three dots, with the text 'Create Account To Start Learning' below it. The right side contains input fields for Name, Email, Roll no, Department, Username, Password, and Password confirmation. A link 'Already Registered ?' and a red 'Register' button are at the bottom. The browser address bar shows '127.0.0.1:8000/register_student/'. The taskbar at the bottom includes icons for weather (25°C), search, and various applications like File Explorer, Edge, and Google Chrome.

Student
Register

Name

Email

Roll no

Department

Username

Password

Password confirmation

[Already Registered ?](#)

Register

25°C Clear

Search

File Explorer Edge Google Chrome

03-04-2023

Input:

Takes in Student Name, Roll No., Department, Email, Username, Password and asks for confirmation of the password.

Expected Output:

Users should be able to create an account with the details given during signing up

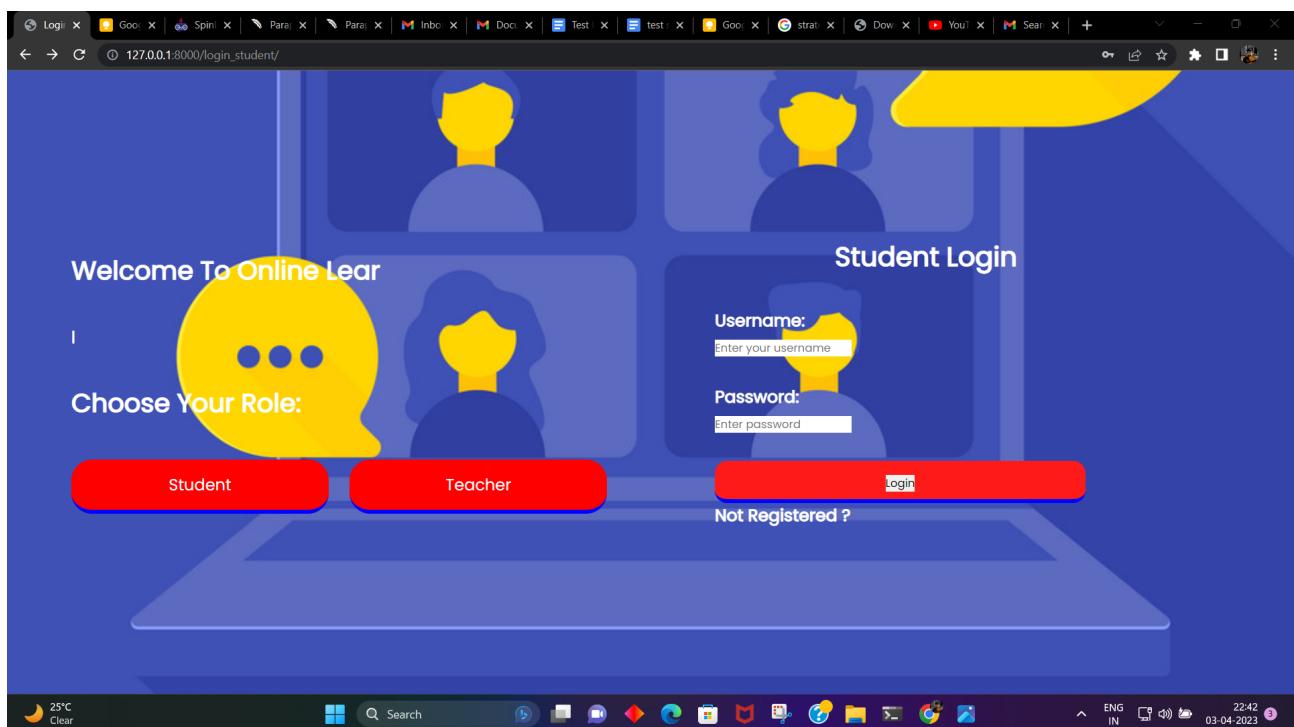
Effective Result:

If the required details are valid then only the student will be able to create an account.

If Password and confirm password does not match then, it will pop up an error message.

Login Page:

Student Login Page:



Input:

Takes in the username and password of the student .

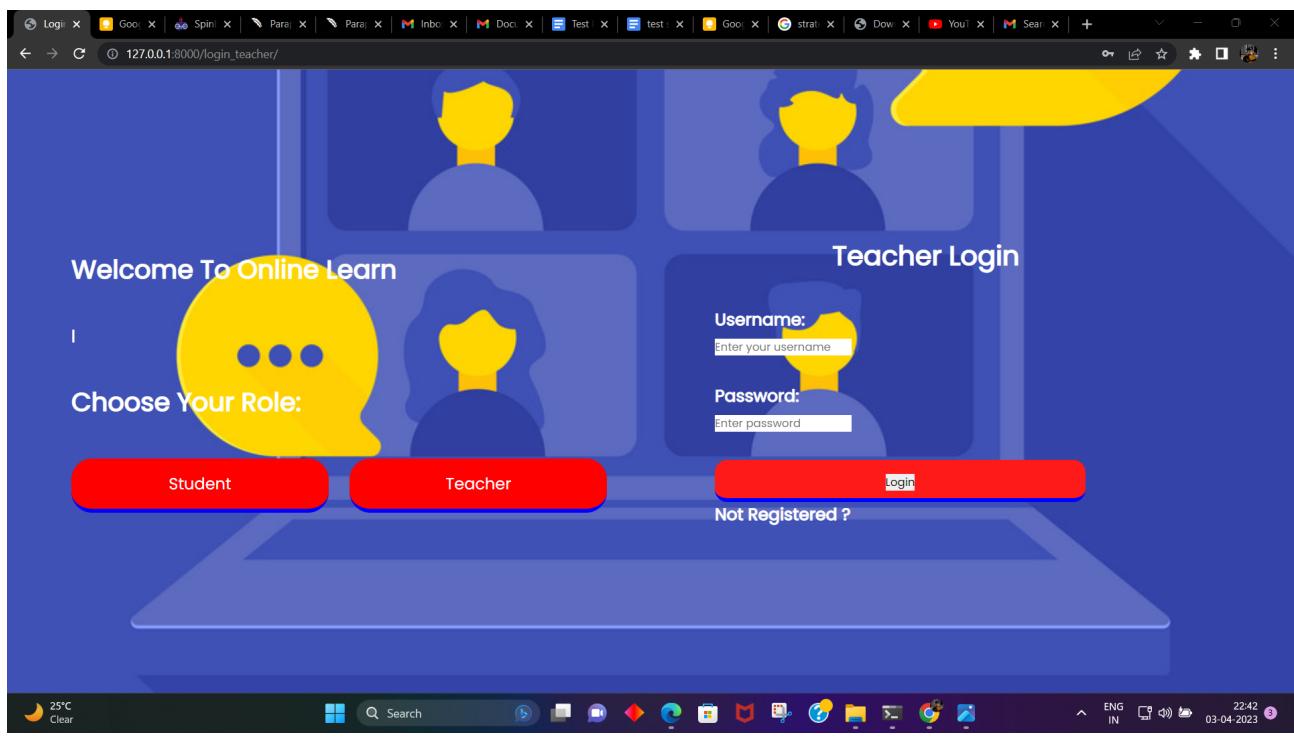
Expected Output:

Students should be able to log in successfully by providing correct login details.

Effective Result:

If the username and password are valid, the student is logged into his/her account

Teacher Login Page:



Input:

Takes in the username and password of the teacher .

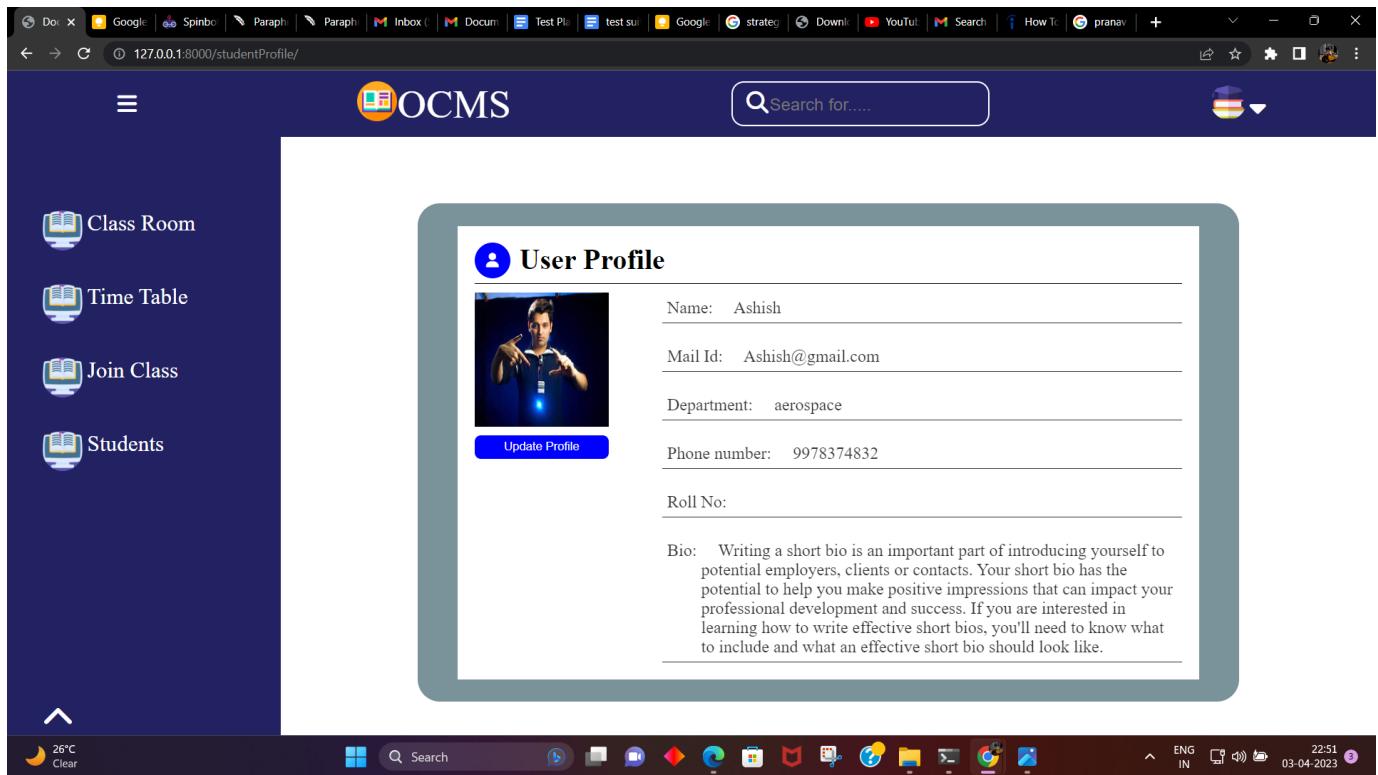
Expected Output:

Users should be able to log in successfully by providing correct login details.

Effective Result:

If the username and password are valid, the teacher is logged into his/her account.

Student Profile Interface:



Input:

Takes no input.

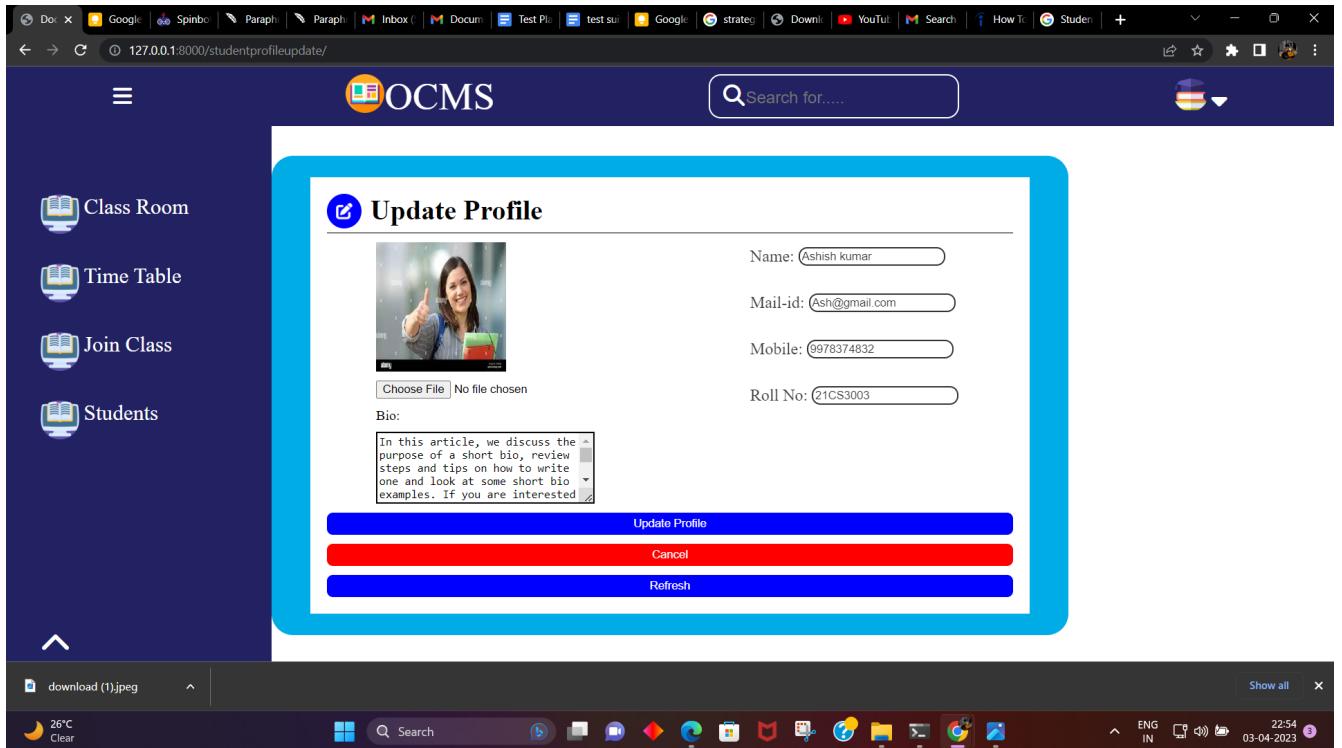
Expected Output:

Students should be able to see the student details filled in by the student.

Effective Result:

All the details should be organized

Student Update Profile Interface:



Input:

Takes roll no, name, mobile mail-id and bio as input.

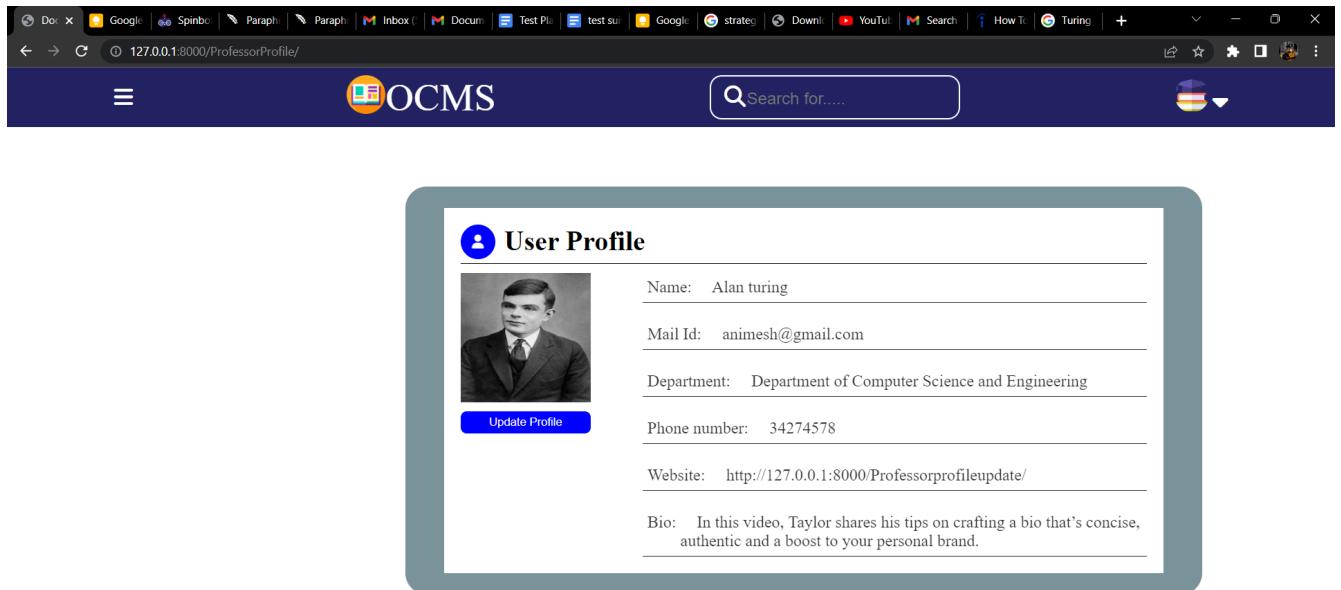
Expected Output:

Students should be able to see the student details filled in by the student on clicking the update profile button and refreshing.

Effective Result:

All the details should be organized.

Professor Profile Interface:



The screenshot shows a web browser window with the URL 127.0.0.1:8000/ProfessorProfile/. The page title is "User Profile". On the left, there is a thumbnail image of Alan Turing and a blue "Update Profile" button. To the right, there are five input fields with the following data:
Name: Alan turing
Mail Id: animesh@gmail.com
Department: Department of Computer Science and Engineering
Phone number: 34274578
Website: <http://127.0.0.1:8000/Professorprofileupdate/>
Bio: In this video, Taylor shares his tips on crafting a bio that's concise, authentic and a boost to your personal brand.



Input:

Takes no input.

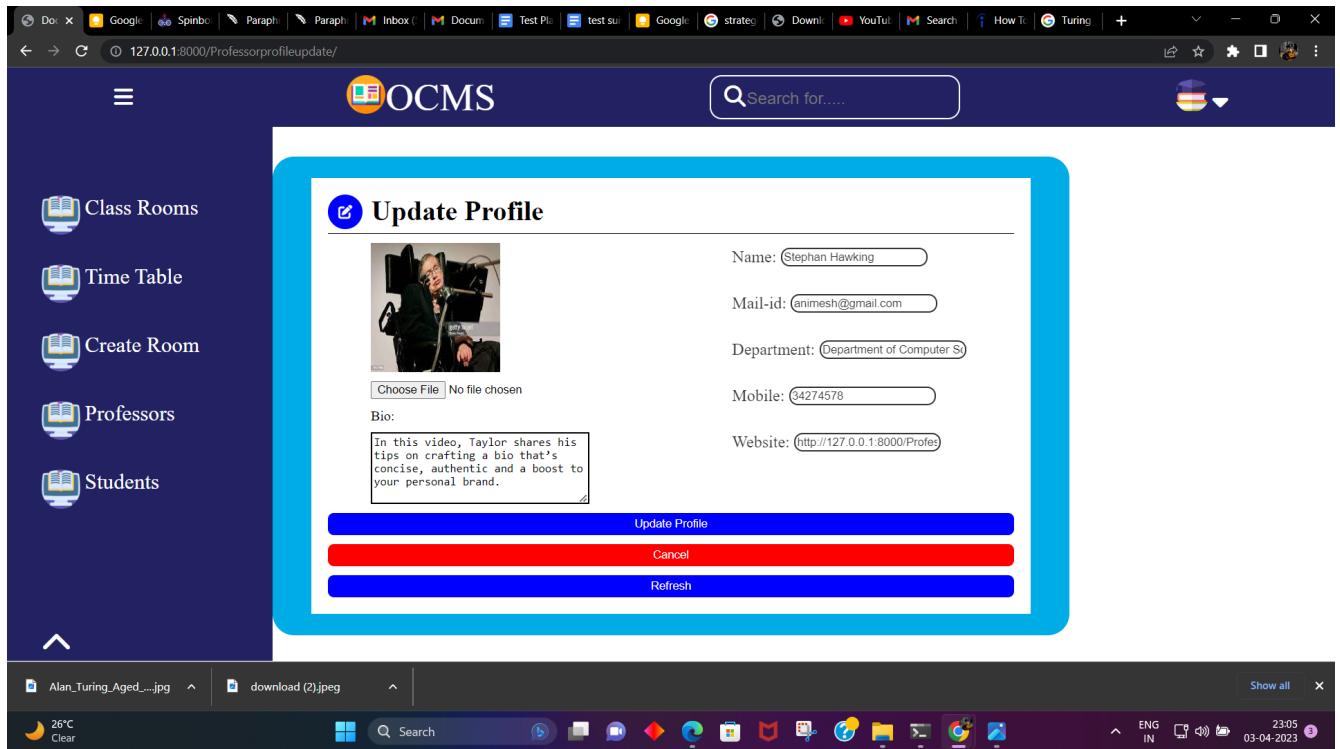
Expected Output:

Professor should be able to see the details filled in during signup.

Effective Result:

All the details should be organized

Professor update Profile Interface:



Input:

Takes name, mobile, mail-id, department, website and bio as input.

Expected Output:

Teachers should be able to see the details filled in by the teacher on clicking the update profile button and refreshing.

Effective Result:

All the details should be organized.

Upload Files Interface(Teacher):

The screenshot shows a web-based application titled "OCMS" (Online Classroom Management System) running at the URL 127.0.0.1:8000/troom/11/files/. The interface includes a sidebar with icons for Class Rooms, Time Table, Create Room, Professors, and Students. The main content area displays a list of assignments under the heading "ASSIGNMENT...". Each assignment entry includes a file name, the user who created it, the update timestamp, and a "Download" button.

| Sl.no | NAME | Updated By | Updated At | Download |
|-------|--------|------------|--------------------------|--------------------------|
| 7 | check1 | abj | April 3, 2023, 1:28 p.m. | Download |
| 8 | check2 | abj | April 3, 2023, 1:55 p.m. | Download |
| 9 | lec1 | abj | April 3, 2023, 2:32 p.m. | Download |
| 10 | check4 | harsh | April 3, 2023, 4:11 p.m. | Download |

[Upload Assignment](#)

Input:

Takes the file at which it is to be published,

Expected Output:

The File should be uploaded and it will be shown to the students.

Effective Result:

File will be provided in the student interface..

Upload Lectures Interface(Teacher):

The screenshot shows a web application interface for OCMS (Online Classroom Management System). The URL in the address bar is 127.0.0.1:8000/troom/11/lectures/. The page has a dark blue header with the OCMS logo and a search bar. On the left, there's a sidebar with icons for Class Rooms, Time Table, Create Room, Professors, and Students. The main content area displays a list of class lectures. The table has columns for Sl.no, NAME, Updated By, Updated At, and Download. Two entries are shown:

| Sl.no | NAME | Updated By | Updated At | Download |
|-------|------|------------|--------------------------|--------------------------|
| 1 | lec2 | abj | April 3, 2023, 3:03 p.m. | Download |
| 2 | lec3 | harsh | April 3, 2023, 4:26 p.m. | Download |

A large green button labeled "Upload Lectures" is at the bottom of the list.

Input:

Takes the lecture at which it is to be published,

Expected Output:

The lecture should be uploaded and it will be shown to the students.

Effective Result:

lectures will be provided in the student interface.

Join Class Interface:

The screenshot shows a web browser window with the URL `127.0.0.1:8000/join_room/`. The page title is "OCMS". On the left sidebar, there are four icons: "Class Room" (book icon), "Time Table" (monitor icon), "Join Class" (book icon), and "Students" (book icon). The main content area displays a grid of six class room cards. Each card has a green square icon at the top with a two-letter acronym (e.g., ND, sa, AL, Np, Npds4, Npds3, Npds1) and a larger text below it (e.g., "NDS5", "sadx", "ALGO", "Npds4", "Npds3", "Npds1"). Below each large text is a timestamp indicating when the class was created (e.g., "created 1 day, 1 hour ago", "created 1 day, 4 hours ago", etc.). Each card also features a "Class Code" input field and a "Join Class" button.

| Class Code | Created | Join Class |
|------------|-----------------------------|------------|
| ND | created 1 day, 1 hour ago | Join Class |
| sa | created 1 day, 4 hours ago | Join Class |
| AL | created 1 day, 4 hours ago | Join Class |
| Np | created 1 day, 14 hours ago | Join Class |
| Npds4 | created 1 day, 23 hours ago | Join Class |
| Npds3 | created 1 day, 23 hours ago | Join Class |
| Npds1 | created 1 day, 23 hours ago | Join Class |

Input:- Enter the code of that class

Expected Output:

The student will join the respective class

Effective Result:

The student gets access to files ,chats uploaded by the teacher.

Students list Interface(for all):

The screenshot shows a web browser window for the OCMS application at the URL 127.0.0.1:8000/students/. The interface includes a sidebar with icons for Class Room, Time Table, Join Class, and Students. The main content area displays a heading "Student Enroled..." above two cards. Card 1 shows a placeholder icon with a plus sign, the name "shakti", and the email "shakti@gmail.com". Card 2 shows a placeholder icon of a person, the name "tim", and the email "tim@gmail.com". A search bar is visible at the top right.

Input:

It takes no input.

Expected Output:

The list of all the students should be shown.

Effective Result:

The list will be shown

Teachers list Interface(for all):

The screenshot shows a web browser window for the OCMS application. The URL in the address bar is 127.0.0.1:8000/professors/. The page title is "OCMS". On the left, there is a sidebar with icons and labels: Class Rooms, Time Table, Create Room, Professors, and Students. The main content area is titled "Professors" and displays three user profiles:

| User | Email | Status |
|--------|--|----------------------|
| abji | abj@gmail.com | None |
| shakti | shakti@gmail.com | None |
| abir | abir@gmail.com | None |

Input:

It takes no input.

Expected Output:

The list of all the teachers should be shown.

Effective Result:

Nothing

STUDENT ACTIVITY INTERFACE:

The screenshot shows a web browser window for the OCMS (Online Classroom Management System) at the URL 127.0.0.1:8000/sactivity/. The interface has a dark blue header bar with the OCMS logo and a search bar. On the left, there's a sidebar with icons for Class Room, Time Table, Join Class, and Students. The main content area is titled "Recent Activity...." and displays a list of messages from a user named @hun. The messages are timestamped and show interactions in different rooms: Njava, NDS5, and Npds4. The messages are: "Chats in Room Njava" (April 3, 2023, 11:40 a.m.), "hiiiiiii", "Chats in Room NDS5" (April 2, 2023, 6:18 p.m.), "hh", "Chats in Room NDS5" (April 2, 2023, 6:03 p.m.), "hey", and "Chats in Room Npds4" (April 2, 2023, 4:20 a.m.).

| Message Content | Date & Time |
|--------------------------|---------------------------|
| @hun Chats in Room Njava | April 3, 2023, 11:40 a.m. |
| hiiiiiii | |
| @hun Chats in Room NDS5 | April 2, 2023, 6:18 p.m. |
| hh | |
| @hun Chats in Room NDS5 | April 2, 2023, 6:03 p.m. |
| hey | |
| @hun Chats in Room Npds4 | April 2, 2023, 4:20 a.m. |

INPUT:NONE

EXPECTED OUTPUT: It shows the recent chat activity of the student.

Effective Result:

The chat along with the timeline is shown

ENROLL STUDENT INTERFACE(For Both):

The screenshot shows a web browser window for the OCMS platform. The URL in the address bar is 127.0.0.1:8000/sroom/8/rstudents/. The page has a dark blue header with the OCMS logo and a search bar. On the left, there's a sidebar for a course named 'Npds4' created by 'professor abj'. The sidebar includes links for Chat, Assignment, Test, Files, Lecture, and Students. The main content area is titled 'Student Enroled...' and shows two students: 'shakti' (ID 1) and 'tim' (ID 2). Each student entry includes a profile icon, their name, and their email address.

| Rank | Student Name | Email |
|------|--------------|--|
| 1 | shakti | shakti@gmail.com |
| 2 | tim | tim@gmail.com |

Input:none

Expected output:Will show the students enrolled in that course
Result :shows the students enrolled

LECTURES INTERFACE (FOR STUDENTS)

The screenshot shows a web-based interface for managing class lectures. On the left, there's a sidebar with icons for Class Room, Time Table, Join Class, and Students. The main area displays course information for 'NDS5' (Created 1 day, 1 hour ago, by professor abji) and a list of uploaded lectures.

Class Lectures...

| Sl.no | NAME | Updated By | Updated At | Download |
|-------|------|------------|--------------------------|--------------------------|
| 1 | lec2 | abj | April 3, 2023, 3:03 p.m. | Download |
| 2 | lec3 | harsh | April 3, 2023, 4:26 p.m. | Download |

Input:none

Expected output:Will show the lectures uploaded in that course

Result :shows the students enrolled

FILES INTERFACE(FOR STUDENTS):

The screenshot shows a web-based application interface for students. At the top, there is a header bar with the URL '127.0.0.1:8000/sroom/11/files'. The header also features the OCMS logo, a search bar with placeholder text 'Search for.....', and a dropdown menu icon.

The main content area is divided into two sections. On the left, there is a sidebar with icons and labels: 'Class Room', 'Time Table', 'Join Class', and 'Students'. Below these labels are several small, illegible text entries.

The right section is titled 'ASSIGNMENT...' and displays a table of uploaded files. The table has columns for Sl.no, NAME, Updated By, Updated At, and Download. There are four rows of data:

| Sl.no | NAME | Updated By | Updated At | Download |
|-------|--------|------------|--------------------------|--------------------------|
| 7 | check1 | abj | April 3, 2023, 1:28 p.m. | Download |
| 8 | check2 | abj | April 3, 2023, 1:55 p.m. | Download |
| 9 | lec1 | abj | April 3, 2023, 2:32 p.m. | Download |
| 10 | check4 | harsh | April 3, 2023, 4:11 p.m. | Download |

Input: none

Expected output: Will show the files uploaded in that course

Result :shows the students enrolled

CLASSROOM INTERFACE(FROM OUTSIDE):

The screenshot shows a web browser window for the OCMS Classroom interface. The URL in the address bar is 127.0.0.1:8000/teacher_room/. The page has a dark blue header with the OCMS logo and a search bar. On the left, there's a sidebar with icons for Class Rooms, Time Table, Create Room, Professors, and Students. The main area displays six classroom cards arranged in two rows of three. Each card has a green square icon at the top with initials (ND, sa, AL for the top row; Np, Np, Np for the bottom row), followed by the class name (NDS5, sadx, ALGO for the top row; npds4, npds3, npds1 for the bottom row), the creation date (created 1 day, 1 hour ago for NDS5, created 1 day, 4 hours ago for sadx, created 1 day, 4 hours ago for ALGO; created 1 day, 14 hours ago for npds4, created 1 day, 23 hours ago for npds3, created 1 day, 23 hours ago for npds1), and a blue "Enter Class" button.

Input:none

Expected output:Will show the enrolled class for students

Result :shows the students enrolled

GENERAL CHAT INTERFACE:

The screenshot shows a web-based application interface for a General Chat. At the top, there's a header bar with a back/forward button, a search bar containing "Search for.....", and a user profile icon. The main area has a dark blue header with the text "OCMS" and a logo. Below the header is a sidebar on the left with icons and labels: "Class Room", "Time Table", "Join Class", and "Students". The main content area is titled "General Chat" and shows a list of messages from a room named "NDS5". The room was created 1 day ago by professor abji. The messages are as follows:

| Message | Time Ago |
|---------------------------------------|--------------------------|
| @abj hellow bachoooooooooooo | 23 hours, 11 minutes ago |
| @abj classes will start from tommorow | 23 hours, 11 minutes ago |
| @abj theek!! | 23 hours, 17 minutes ago |
| @abj okaayyyyyyyyyyyyyy | 23 hours, 17 minutes ago |
| @abj okayyy | 23 hours, 19 minutes ago |
| @abj | 23 hours, 19 minutes ago |

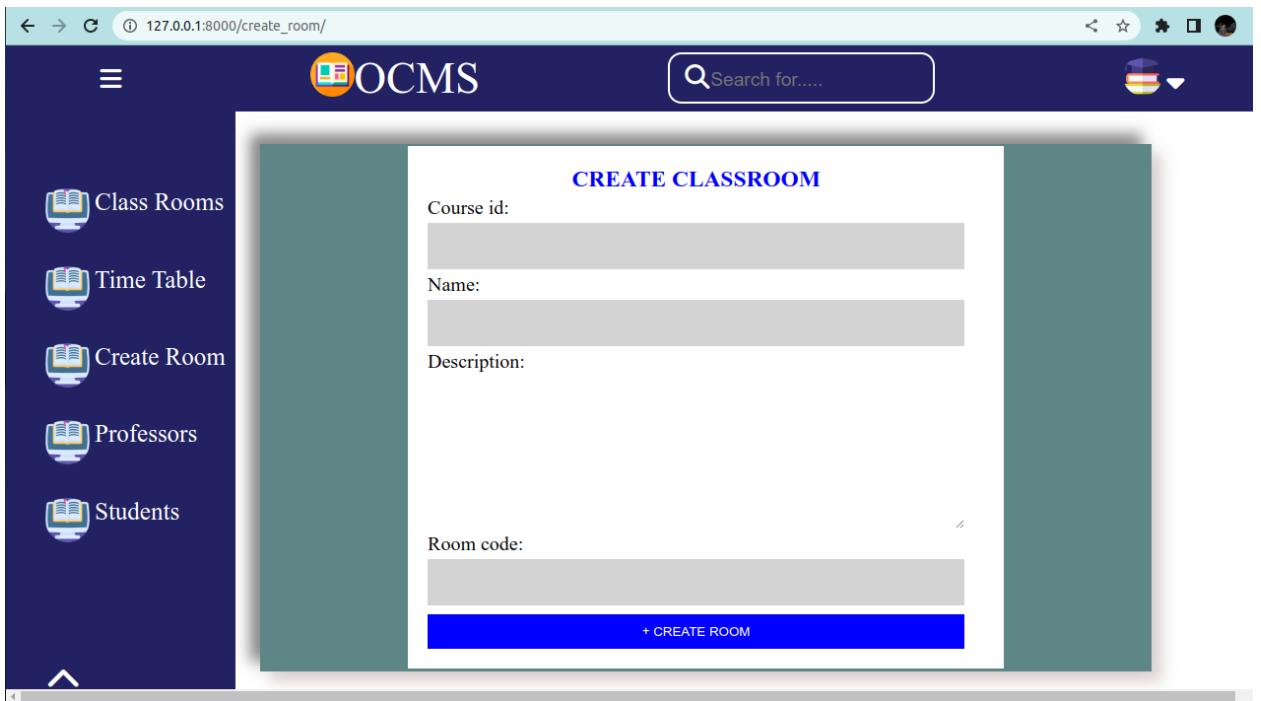
At the bottom of the chat area is a text input field labeled "Type your message...." with a send icon.

input:Enter message

Expected output:Shows all the chats

Result:Lists the chats

Create Room interface for Professor:



Input:

Takes Course id ,Name,Description and Room as input.

Expected Output:

Teachers should be able to generate a particular classroom by clicking create room and it will be shown in his classrooms sections.

Effective Result:

Professor will be able to generate a unique class.