

TEST SUITE + COMPLIANCE REPORT

ONLINE CLASSROOM MANAGEMENT SYSTEM (OCMS)

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Student CLASS

1. Student Sign Up:

- Construction
 - Empty Fields

| Name | Roll No. | Phone | Email | Username | Password | Confirm Password |
|------|----------|-------|-------|----------|----------|------------------|
| ?? | ?? | ?? | ?? | ?? | ?? | ?? |

OUTPUT - Exception raised for Name, Roll No., Phone, Email, Username, Password and Confirm Password .for not conforming to minimum length criteria being of invalid type.

- Invalid Characters

| Name | Roll No. | Phone | Email | Username | Password | Confirm Password |
|---------------|----------|------------|---------------------|----------|----------|------------------|
| “abhi??kumar” | “abhi23” | 9?=3258741 | abhikumar@gmail.com | “abhi~~” | “abr” | “abr” |

OUTPUT - Exception raised for 4 fields(except name & username) for being of invalid type.

- Correct Parameters

| Name | Roll No. | Phone | Username | Password | Confirm Password |
|----------------|----------|------------|----------------|--------------------|-------------------|
| “Paresh Rawal” | 5 | 9632587417 | “rawal_paresh” | “Rawal_@12keshavt” | “Rawal_@12keshav” |

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

2. User Login:

- Construction
 - Invalid Parameters

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

OUTPUT - Exception raised for the empty username field.

- Correct Parameters

| Username | Password |
|----------------------|---------------------|
| “nikhilsaraswat2002” | “Nikhiliitkgp2020#” |

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. Change Password:

- Construction

| Old Password | New Password | New Password Confirmation |
|--------------|--------------|---------------------------|
| “” | 32/1/2001 | — |

OUTPUT - Exceptions raised for empty fields and mismatched occurred because of password confirmation.

| | | |
|---------------------|------------------|---------------------------|
| Old Password | New Password | New Password Confirmation |
| "Nikhiliitkgp2020#" | "Saraswat1920@#" | "Saraswat1920@#" |

OUTPUT - No exceptions raised.

4. Student Update View:

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

| Name | Roll No. | Email | Phone | clear (check box) | change file (button) (optional) |
|---------------------|------------------|------------------|-------|-------------------|---------------------------------|
| "Nikhiliitkgp2020#" | "Saraswat1920@#" | "Saraswat1920@#" | "<>" | checked | — |

OUTPUT - Exceptions raised for empty phone fields.

- Pass all correct parameters

| Name | Roll No. | Email | Phone | clear (check box) | change file (button) (optional) |
|---------------------|------------------|------------------|-------------|-------------------|---------------------------------|
| "Nikhiliitkgp2020#" | "Saraswat1920@#" | "Saraswat1920@#" | "963258741" | not checked | uploaded file |

OUTPUT - No exceptions raised.

5. Write Message:

- Constructor

| |
|---------|
| Message |
| "<>" |

OUTPUT - Exceptions raised for the empty text field.

| Message |
|---|
| “Sir, I have a query regarding the End Sem exam, whether it will be online or offline?” |

OUTPUT - No Exception raised.

6. Submit Assignment:

- Constructor

| Choose File |
|-------------|
| — |

OUTPUT - Exception raised because No file chosen.

| Choose File |
|----------------------------------|
| Assignment_6.pdf |

OUTPUT -No Exception raised.

Teacher CLASS

1. Teacher Sign Up:

- Construction
 - Empty Fields

| Name | Subject | Phone | Email | Username | Password | Confirm Password |
|------|---------|-------|-------|----------|----------|------------------|
| “” | “” | “” | “” | “” | “” | “” |

OUTPUT - Exception raised for Name, [Subject](#)., Phone, Email, Username, Password and Confirm Password.

- Invalid Characters

| Name | Subject | Phone | Email | Username | Password | Confirm Password |
|-----------|-------------|-----------------|------------------|------------|----------|------------------|
| "Amit KR" | "chemistry" | 9? =32456181 | "Amit@gmail.com" | "amit5656" | "amit78" | "amit78" |

OUTPUT - Exception raised for 3 fields(phone, password & confirm password) for being of invalid type.

- Correct Parameters

| Name | subject | Phone | Email | Username | Password | Confirm Password |
|------|---------|-------|-------|----------|----------|------------------|
|------|---------|-------|-------|----------|----------|------------------|

| | | | | | | |
|-----------|-------------|-----------|------------------|------------|--------------|--------------|
| "Amit KR" | "chemistry" | 963785611 | "Amit@gmail.com" | "amit5656" | "Amit78#\$%" | "Amit78#\$%" |
|-----------|-------------|-----------|------------------|------------|--------------|--------------|

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

2. User Login:

- Construction
 - Invalid Parameters

| Username | Password |
|----------|--------------|
| "<" | "Amit78#\$%" |

OUTPUT - Exception raised for the username for not conforming to minimum length criteria.

- Correct Parameters

| Username | Password |
|------------|--------------|
| "amit5656" | "Amit78#\$%" |

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

3. Change Password:

- Construction
 - Pass correct parameters for the parent class.

| Old Password | New Password | New Password Confirmation |
|--------------|--------------|---------------------------|
| " | 32/1/2001 | — |

OUTPUT - Exceptions raised for empty old password & new password confirmation and invalid new password field.

- Pass all correct parameters

| Old Password | New Password | New Password Confirmation |
|--------------|--------------|---------------------------|
| "Amit78#\$%" | "Kumar45@#&" | "Kumar45@#&" |

OUTPUT - No exceptions raised.

- Methods
 - Verify Password

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

4. Teacher Update View:

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

| Name | Subject | Email | Phone | clear (check box) | change file (button) |
|-----------|-------------|------------------|-------|-------------------|----------------------|
| "Amit KR" | "chemistry" | "Amit@gmail.com" | "" | checked | |

OUTPUT - Exceptions raised for empty phone fields.

- Pass all correct parameters

| Name | Roll No. | Email | Phone | clear (check box) | change file (button) |
|-----------|-------------|--------------------|-------------|-------------------|----------------------|
| "Amit KR" | "chemistry" | "kramit@gmail.com" | "963254561" | not checked | uploaded file |

OUTPUT - No exceptions raised.

5. Upload_Assignment:

- Constructor

| Assignment Name | Assignment File | Publish Date | Deadline |
|-----------------|-----------------|--------------|----------|
| "" | — | __/__/__ | __/__/__ |

OUTPUT - Exceptions raised because of empty text fields.

| Assignment Name | Assignment File | Publish Date | Deadline |
|-----------------|-----------------|--------------|------------|
| " Assignment6" | Assignment6.pdf | 12/08/2022 | 17/08/2022 |

OUTPUT - No exception raised.

6. Update_Assignment:

- Constructor

| Assignment Name | Assignment File | Publish Date | Deadline |
|-------------------------------|-------------------------------|--------------|----------|
| <code><<>></code> | <code><<>></code> | --- | --- |

OUTPUT - Exceptions raised because of empty text fields.

| Assignment Name | Assignment File | Publish Date | Deadline |
|-----------------|-----------------|--------------|------------|
| Assignment6 | Assignment6.pdf | 12/08/2022 | 17/08/2022 |

OUTPUT - No exception raised.

7. Add Marks:

- Constructor

| Subject | marks obtained | total marks |
|-------------------------------|-------------------------------|-------------|
| <code><<>></code> | <code><<>></code> | --- |

OUTPUT - Exceptions raised because of empty text fields.

| Subject | marks obtained | total marks |
|---------|----------------|-------------|
| physics | 78 | 100 |

OUTPUT - No exception raised.

8. Write Notice:

- Constructor

| |
|-------------------------------|
| Message |
| <code><<>></code> |

OUTPUT - Exceptions raised for the empty text field.

| |
|---|
| Message |
| “Sir, I have a query regarding the End Sem exam, whether it will be online or offline?” |

OUTPUT - No Exception raised.

INTERFACES

1. Login Interface:

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

- mir12 - “pass1”
- Mohammad - “pass4”
- Wasif - “pass3”
- saraswat7956 -student

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

- Testing teacher

| Unique name | Password | Type | Output |
|-------------|----------------------|---------------------|--------|
| mir12 | pass1 | Teacher | True |
| muhammad345 | pass2 (incorrect) | teacher | False |
| Wasif | pass1 | Teacher | False |
| nik456 | pass2 (incorrect) | teacher | False |
| sarawat7956 | pass1 | student (incorrect) | False |

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

- abhishek1245 - “pass5”
- gupta78 - “pass6”
- ramaaa56 - teacher-”pass10”
- Testing student

| Unique name | Password | Type | Output |
|--------------------------|-------------------|------------------------|--------|
| abhishek1245 | pass5 | Student | True |
| abhishek1245 | pass3 (incorrect) | Student | False |
| gupta7845 (incorrect) | pass2 | Student | False |
| gupta7845 (incorrect) | pass3 (incorrect) | Student | False |
| ramaaa56 | pass10 | Teacher (incorrect) | False |

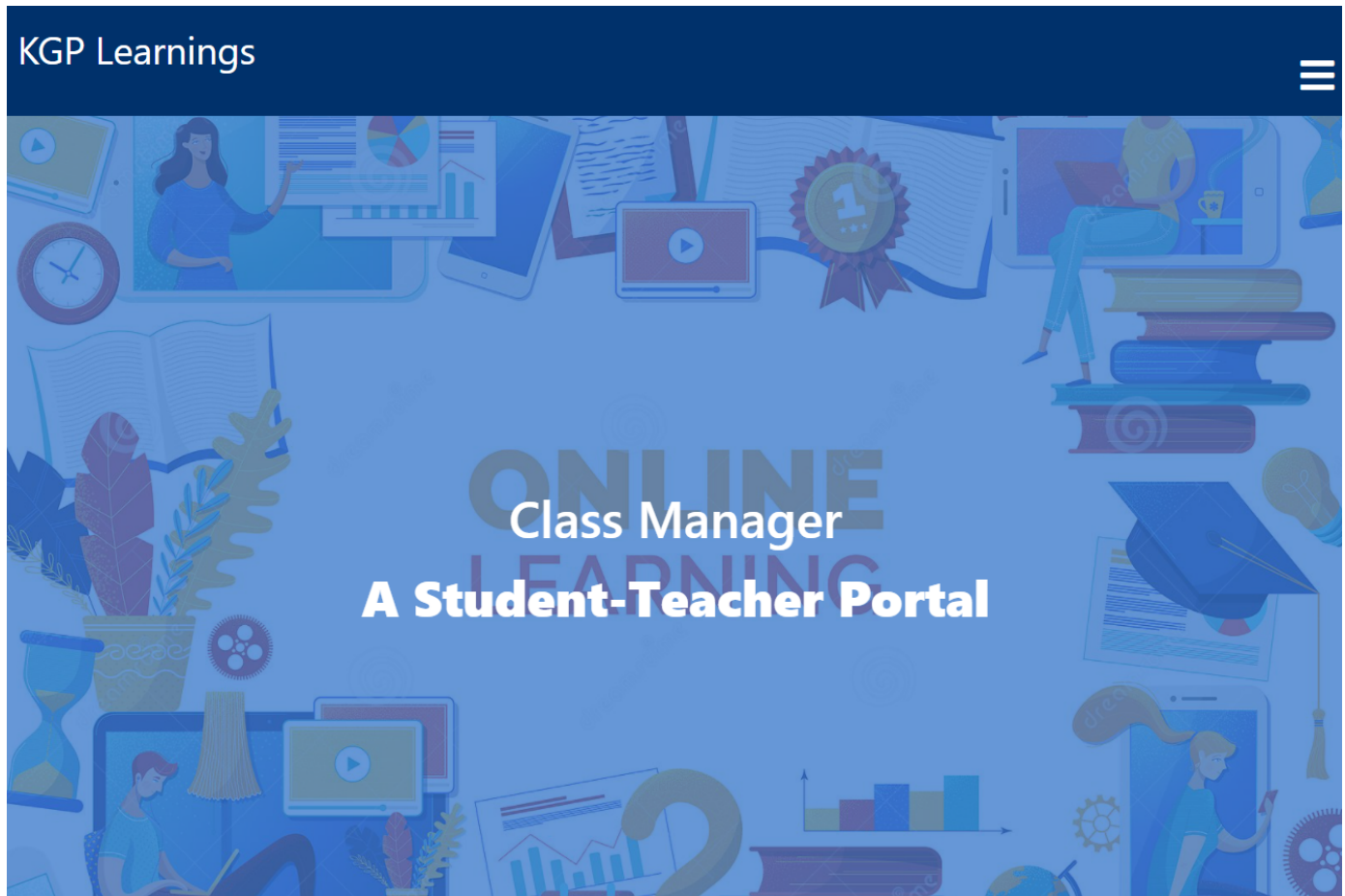
2. Signup Interface:

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

| Email ID | Type | Output |
|---------------------|---------|--|
| amit32@gmail.com | Student | (True, "Signup successful") |
| abirdas48@gmail.com | Teacher | (True, "Signup successful") |
| amit32@gmail.com | Student | (False, "Student with given email already exists") |
| abirdas48@gmail.com | Teacher | (False, "Teacher with given email already exists") |

INTERFACE TESTING

Home Page:



Input:

Select whether the user is an employee or a spectator.

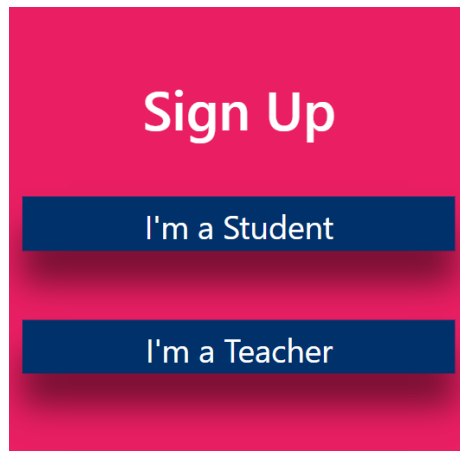
Output:

If 'Employee' is selected, the user is redirected to the Employee Login Page.

If 'Spectator' is selected, the user can view the Spectator interface

Sign Up Page:

This page will give the option to the user to choose student sign up or teacher sign up.



Student Sign Up Page:

Sign up as a Student.
Fill out the form:

Name:

Roll no:

Phone:

Email:

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Password can't be similar to your other fields and must contain atleast 8 characters.

Password confirmation:

Enter the same password as before, for verification.

Already have an account.

Input:

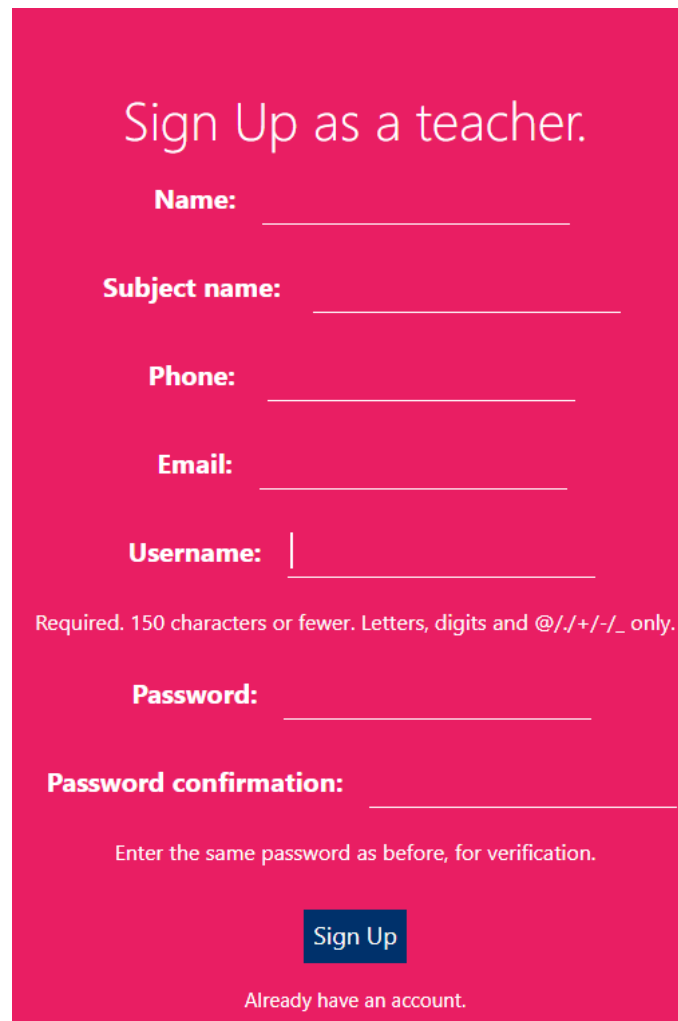
Takes in Student Name, Roll No., Phone, Email, Username, Password and asks for confirmation of the password.

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.

Teacher Sign Up Page:



The image shows a 'Sign Up as a teacher' form on a pink background. The form includes input fields for Name, Subject name, Phone, Email, Username, Password, and Password confirmation. A 'Sign Up' button is located below the password confirmation field. A link 'Already have an account.' is at the bottom.

Sign Up as a teacher.

Name:

Subject name:

Phone:

Email:

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Password confirmation:

Enter the same password as before, for verification.

[Sign Up](#)

[Already have an account.](#)

Input:

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

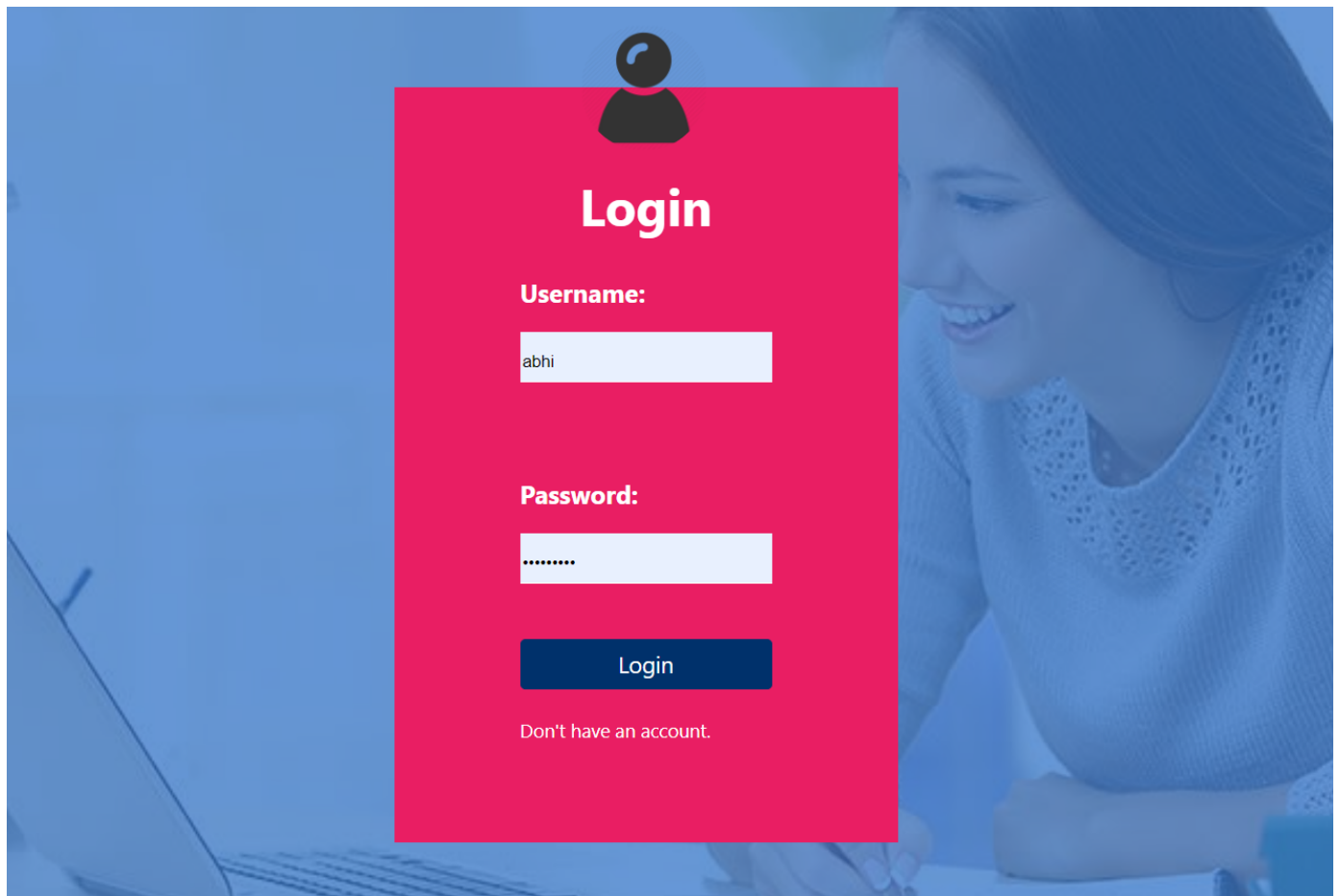
Expected Output:

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:



Input:

Takes in Employee ID and password of the employee.

Expected Output:

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

Effective Result:

If the Employee ID and password are valid, the employee is redirected as per their role.

Change Password Interface:

Change Password.

Old password

Old password

New password

New password

New password confirmation

New password confirmation

Change Password

Input:

Take in the old password, new password, new password & confirm.

Expected Output:

Users should be able to change the password of his/her account.

Effective Result:

if the old password is correct and a new password is according to the password format then the password will be changed.

User Profile Interface:



Nikhil

Username: nik

Roll No.: 43

Phone: 8962402034

Email ID:
nikhilsaraswat@kgpian.iitkgp.ac.in

Edit Profile

Input:

Takes no input, for editing the profile student needs to click on the Edit Profile Button.

Expected Output:

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

Effective Result:

All the details should be organised.

Upload Assignment(Teacher):



The screenshot shows a web form titled "Upload Assignment" on a light gray background. The form contains the following fields and controls:

- Assignment name:** A text input field with the placeholder text "Assignment name".
- Assignment:** A file upload control consisting of a "Choose File" button and the text "No file chosen".
- PublishedAt:** A date input field with the placeholder text "yyyy-mm-ddT--:--" and a calendar icon on the right.
- Deadline:** A date input field with the placeholder text "yyyy-mm-ddT--:--" and a calendar icon on the right.
- Upload:** A red button with the text "Upload" located at the bottom left of the form.

Input:

Takes the assignment name, assignment file, the date at which it is to be published, and the deadline.

Expected Output:

The assignment should be uploaded and according to the published date it will be shown to the students.

Effective Result:

Assignment will be hidden in the student interface till the published date.

Assignment List Interface (For Teacher):

| # | Assignment Name | Uploaded At | Deadline | Download | Update | Delete |
|---|-----------------|---------------------------|---------------------------|--------------------------|------------------------|------------------------|
| 1 | Assignment 6 | March 18, 2022, 4:44 p.m. | April 2, 2022, 4:44 p.m. | Download | Update | Delete |
| 2 | SRS | March 25, 2022, 9:26 a.m. | March 31, 2022, 9:26 a.m. | Download | Update | Delete |

Input:

No input.

Expected Output:

can delete, update, download the assignment.

Effective Result:

can delete / update assignments if the wrong assignment is uploaded.
can download the assignment.

Assignment List Interface (For Student):

| # | Assignment Name | Uploaded By | Uploaded At | Deadline | Download | Status |
|---|-----------------|--------------|---------------------------|---------------------------|--------------------------|------------------------|
| 1 | Assignment 6 | abhijeet das | March 18, 2022, 4:44 p.m. | April 2, 2022, 4:44 p.m. | Download | Submit |
| 2 | SRS | abhijeet das | March 25, 2022, 9:26 a.m. | March 31, 2022, 9:26 a.m. | Download | Submitted |

Input:

It takes no input.

Expected Output:

It will show the student assignments submitted by him/her till the date.

Effective Result:

The assignment list will be shown in the decreasing order of published date.

Add Marks Interface (for Teacher):



The screenshot shows a web interface titled "Give Marks to Nikhil". It contains three input fields: "Subject name", "Marks obtained", and "Maximum marks". Each field has a light gray border and a placeholder text matching the field's label. Below these fields is a red button with the text "Add Marks".

Input:

Takes the subject name, marks obtained, and maximum.

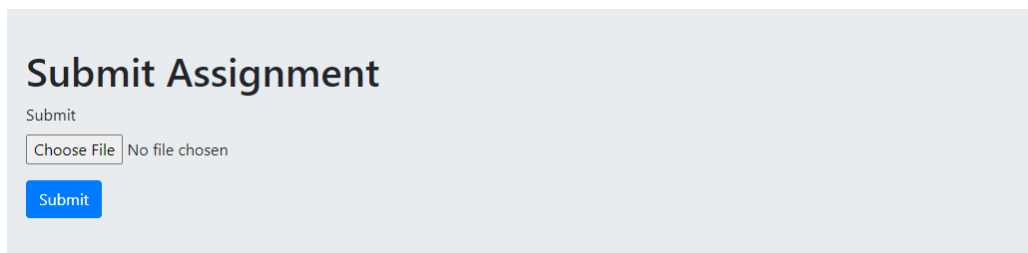
Expected Output:

The marks should be added to the database and should be shown to students.

Effective Result:

The marks should be added to the database and should be shown to students.

Submit assignment Interface(for Student):



The screenshot shows a web interface titled "Submit Assignment". It features a "Submit" label above a file upload area. The file upload area includes a "Choose File" button and the text "No file chosen". Below this is a blue "Submit" button.

Input:

Takes the file as input.

Expected Output:

The assignment should be submitted.

Effective Result:

The assignment will be submitted if and only if the deadline is not reached.

Marks list Interface(for Student):

| Sr. no. | Subject | Teacher Name | Marks Obtained | Max Marks |
|---------|--------------------------|--------------|----------------|-----------|
| 1 | Software Engineering Lab | abhijeet das | 45 | 50 |

Input:

Takes no input.

Expected Output:

The marks will be shown to students.

Effective Result:

The marks will be shown in an organised way.

Write notice Interface (for Teacher):

Write your notice here!

Notice will be sent to every student in your class.

Message:

Add Notice

Input:

The input will be the text written by the teacher.

Expected Output:

When notice will be shown to all the students.

Effective Result:

All the notices will be sorted according to the date it is published.

Write Message Interface(for Student):

Write a message to abhijeet das

After sending message you will not be able to delete or edit message.

Message:

Send Message

Input:

Write a text message in the allocated box area.

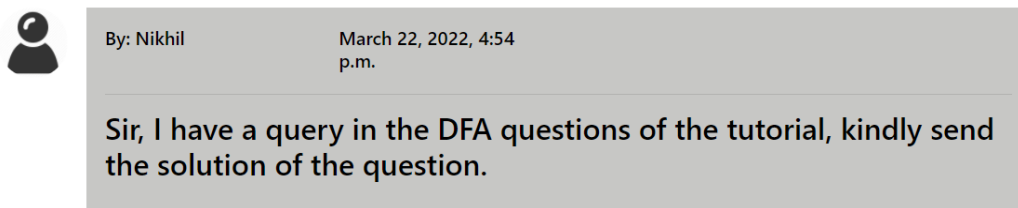
Expected Output:

Messages will be sent to the selected teacher account.

Effective Result:

Nothing.

Message list Interface(for Teacher):



Input:

It takes no input.

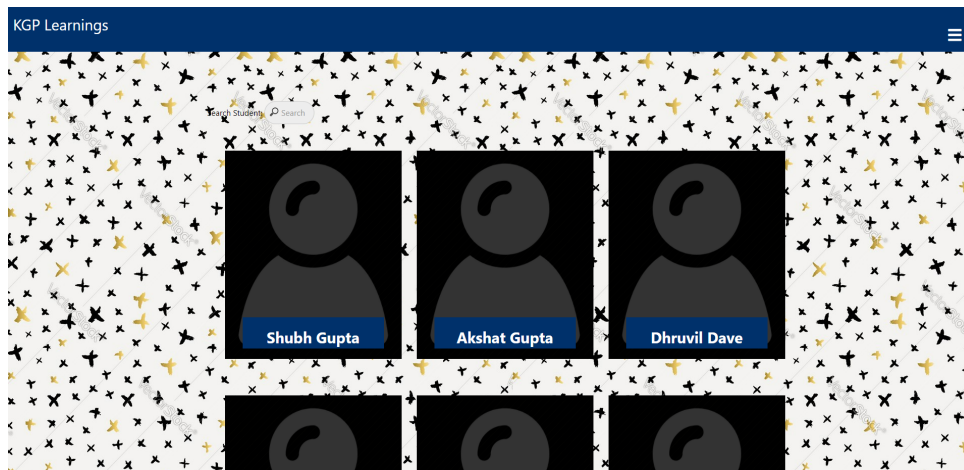
Expected Output:

The list of all the messages will be shown.

Effective Result:

The ordering of all the messages will be according to the sent date.

Students list Interface(for Teacher):



Input:

It takes no input.

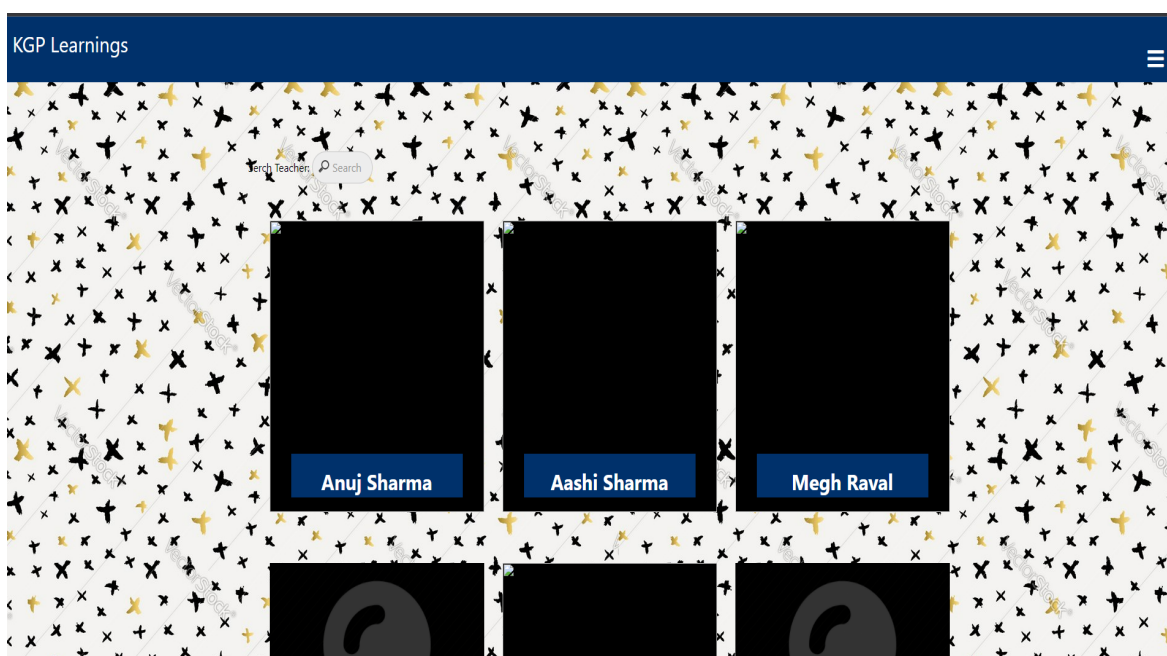
Expected Output:

The list of all the students should be shown.

Effective Result:

The list will be sorted according to the student's roll number.

Teachers list Interface(for Student):



Input:

It takes no input.

Expected Output:

The list of all the teachers should be shown.

Effective Result:

Nothing.