



**Ahmedabad
University**

CSE519: Human Computer Interaction

Project Report 3

Section 2

Submitted to faculty: Prof. Anurag Lakhani

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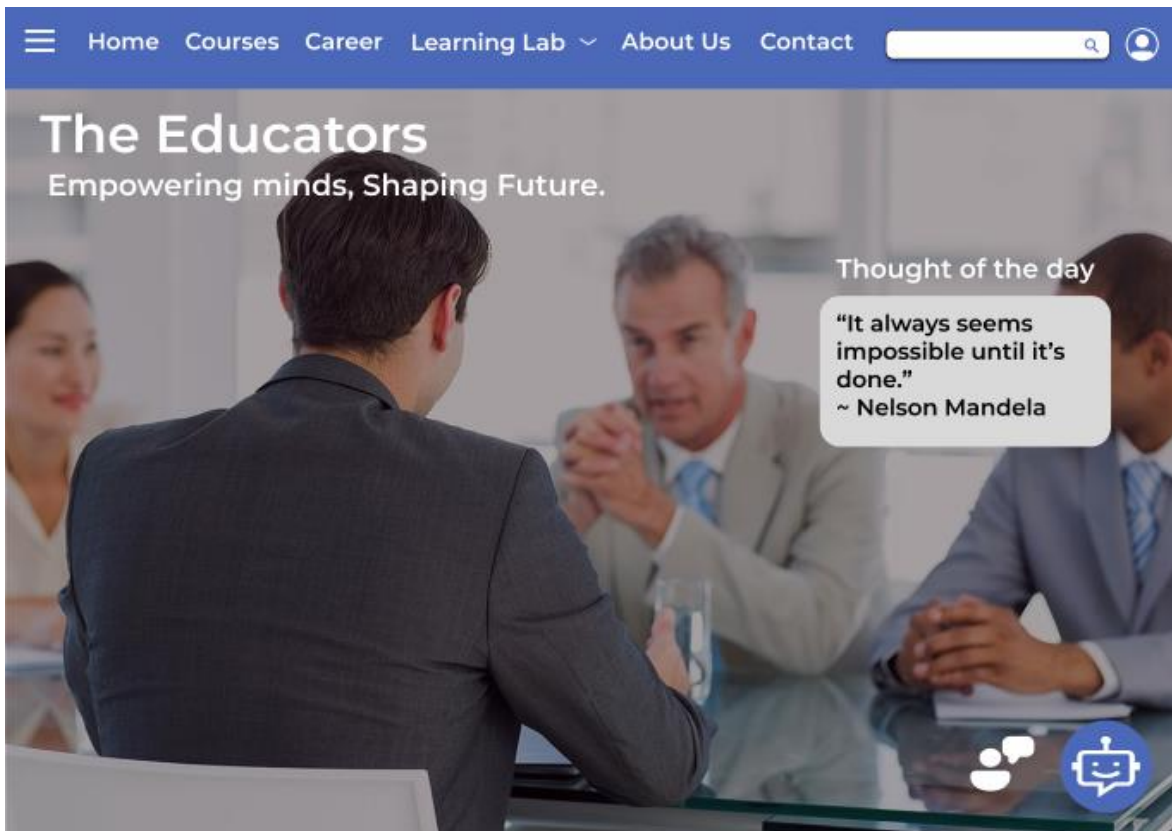
2022-2023 (Winter Semester)

1. Background Switching

Functionality:

The background images will be displayed on the home page. The images will depict the purpose of the website and grab the user's attention. On a specific interval of time, the images will keep on changing which will be an attractive feature on the very first page.

Implementation:





Design Principle:

Strive for Consistency - The navigation bar remains the same throughout the website. With this, the user can easily switch the pages and can search for anything even if he/she is not using the home page.

Interaction Style:

Command Language - The users can enter text commands or keywords, which the system recognizes and the system responds with the relevant options or actions. For example, a user could enter the command "search" in the navigation bar, and the system would respond with a search field or search options. Here, the style can be efficient for experienced users who are familiar with the commands and prefer using keyboard shortcuts rather than clicking on options with a mouse.

Hierarchical Task Analysis:

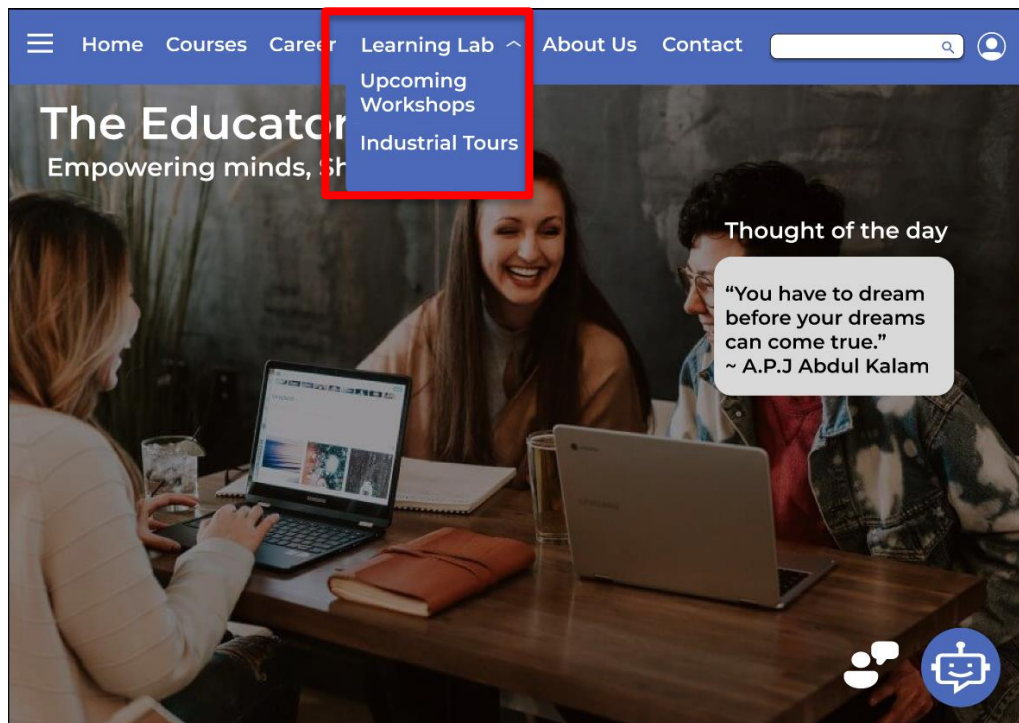
- 1.1 The user will select any option on the navbar according to their preference.
- 1.2 The system will show them the selected option.
- 1.3 They can move back to any option they want.

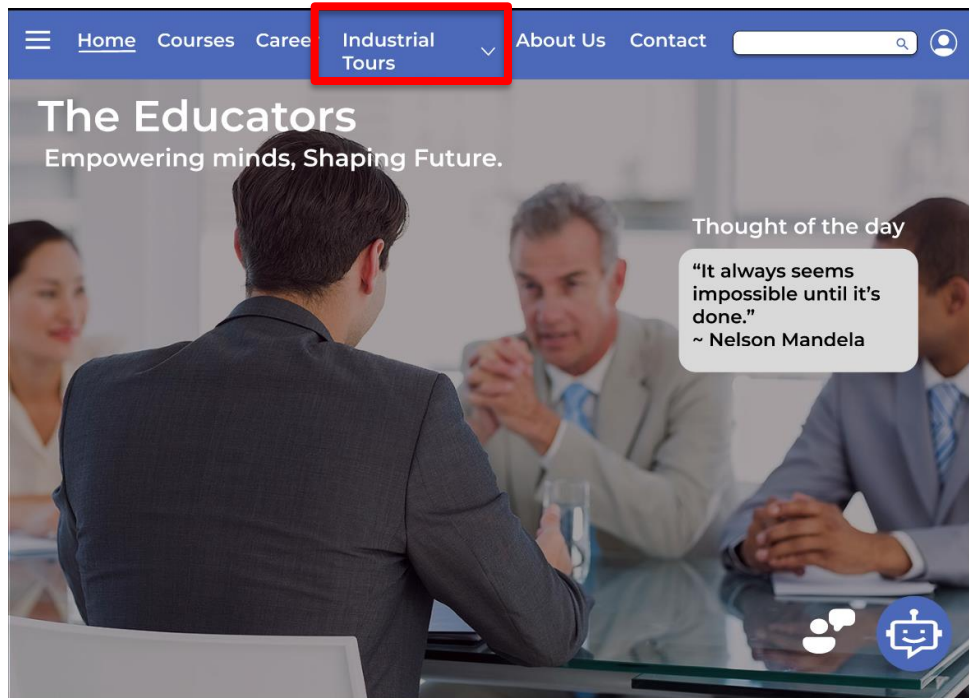
2. Drop Down Menu for Learning Lab

Functionality:

This feature gives user various options available in the Learning Lab tab. Here, there are two options given; Upcoming Workshops and Industrial Tours.

Implementation:





Design Principle:

Visibility – Here, the selected option is clearly visible on the tab. Also, when the user hovers over an option, it is clearly visible through the change in transparency of the block.

Interaction Style:

Menu Selection – The user is given various available options from which he/she has to select an appropriate answer.

Hierarchical Task Analysis:

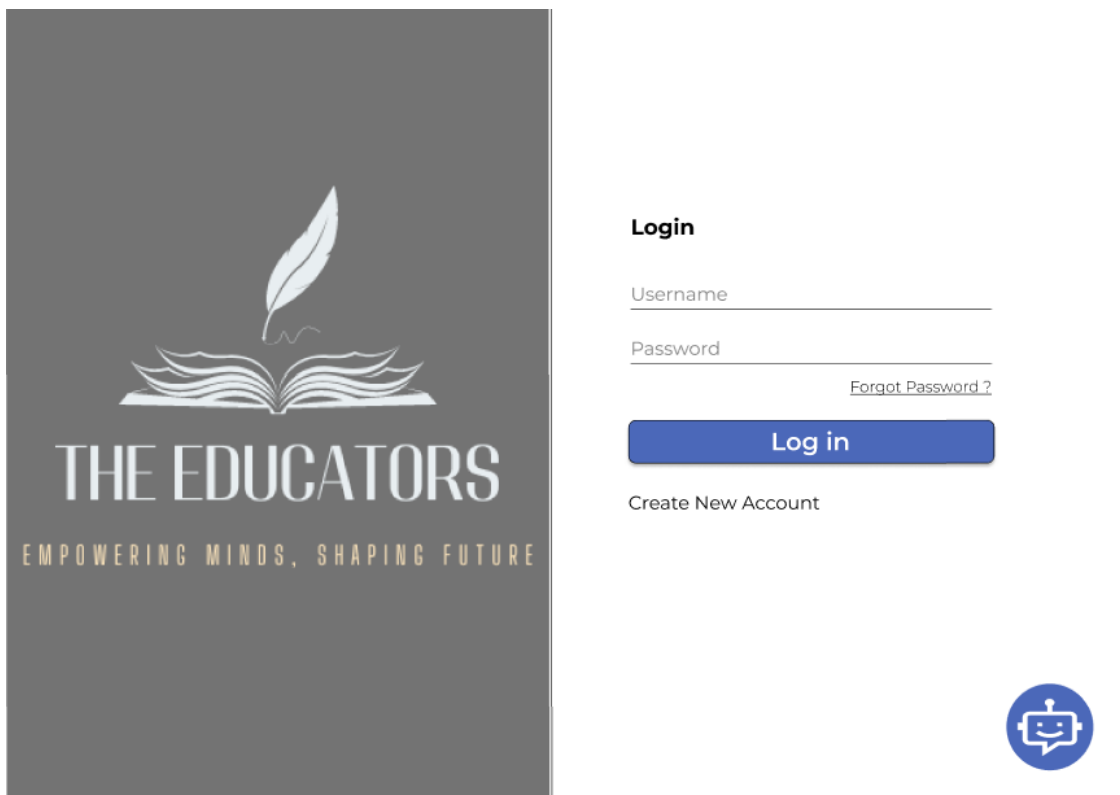
- 1.1 Click on the Learning Lab tab.
- 1.2 A drop-down menu is visible.
- 1.3 Hover over your preferred option and then click over it.
- 1.4 The selected option is then visible over the tab.

3. Log-in Page

Functionality:

This feature verifies the user's identity before granting them access to the application. The user can either log in with their existing account credentials or create a new account by providing a username and password.

Implementation:



Design Principle:

Prevent Error – Here, the error in the username as well as password is verified and incorrect input prevents the user from further navigating through the website.

Interaction Style:

Form Fill in – Here, the user is asked to fill the appropriate details required. This approach is very accessible to the user; he/she can easily interpret where to enter the detail and what details are to be entered.

Hierarchical Task Analysis:

- 1.1 The user enters the username and password.
- 1.2 If the input value is correct, user is further moved to courses page.
- 1.3 If the input value is incorrect, the user is asked to enter the correct value.

4. New Account Page

Functionality:

The create account page of our website will enable new users to sign up for an account, providing access to all features of the website. Users will be able to input their personal details, such as their username and email address, as well as create a password.

Implementation:



Signup new account using username, email, password and role type

Create New Account



Design Principle:

Diverse Cognitive and Perceptual Abilities - The page will be designed to be accessible to users with diverse cognitive and perceptual abilities, such as by using a clear and simple layout and avoiding the use of distracting or confusing elements.

Interaction Style:

Form Fill in – The users will input their personal details and create a username and password through a form on the page. This will allow for a straightforward and efficient account creation process.

Hierarchical Task Analysis:

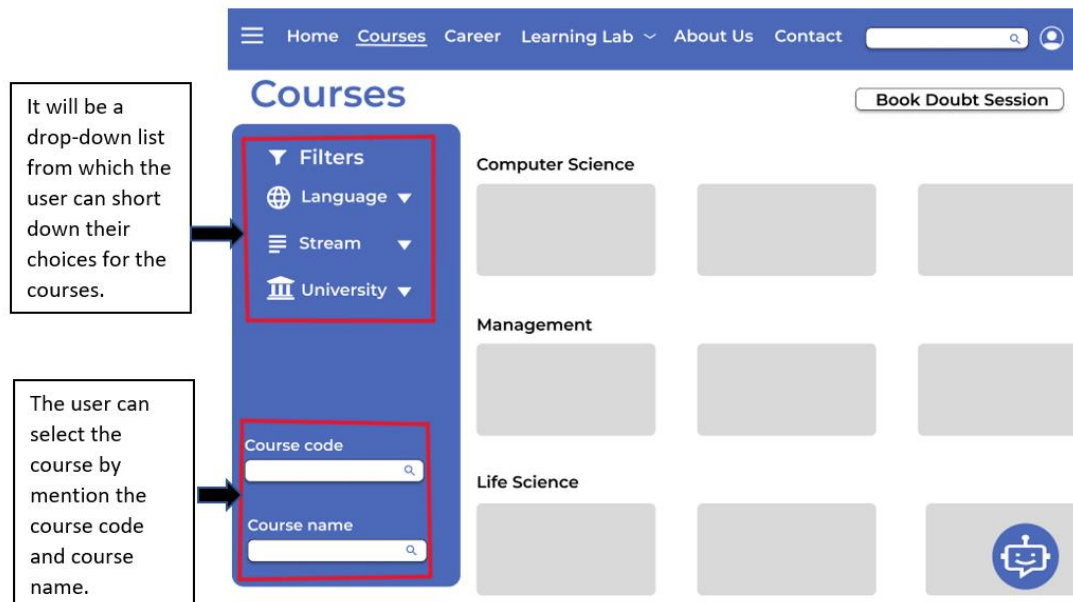
- 1.1 Enter your Username, Email-id, password, and confirm password for signing up.
- 1.2 If the format for all is correct and the Email-id is not used before, and the password and confirm password matched, log in to the homepage.
- 1.3 Else shows an error to correct.

5. Filter option in Courses Page

Functionality:

The main purpose of the feature is to short down the list through applying various filters. The aim is to make the task easy for the users so they do not have to scroll or waste their time in searching for the desired course.

Implementation:



Usability Goals:

Learnability - It is easy for the user to learn the functionalities and adding this feature, decreases the time taken by the user to reach their goal.

Interaction Style:

Menu Selection - The user can go through the list of courses and select the appropriate one. It provides a clear structure of decision making by narrowing the number of options. This feature mainly shortens learning and saves time.

Hierarchical Task Analysis:

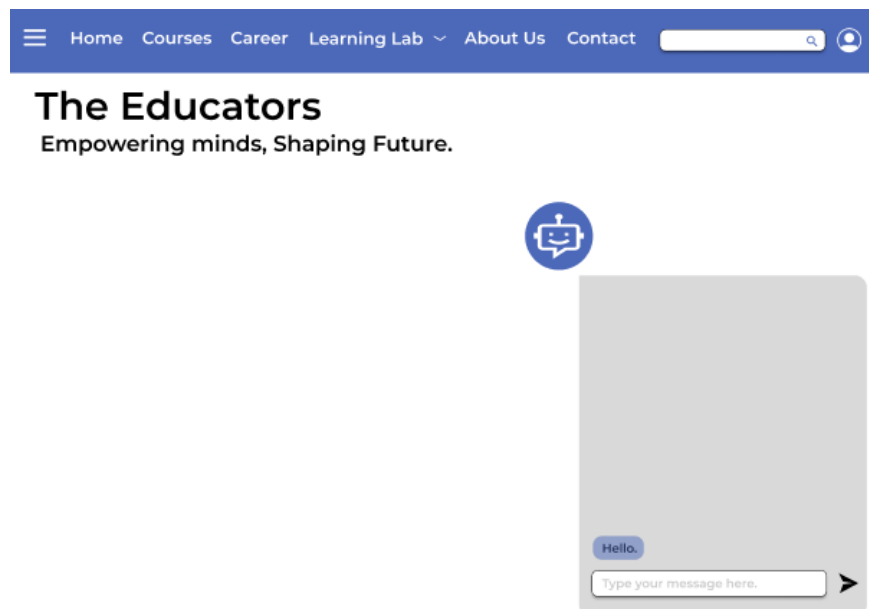
- 1.1 The user can see through the drop-down menu or they can directly write the course code or course name.
- 1.2 After applying the feature, most matched courses will be displayed by the system.
- 1.3 The user can choose the desired course from it.

6. Chatbot

Functionality:

This feature gives the user an option to interact if there is any query related to any domain of the website. They can clear out any query related to courses, workshops, career opportunities, etc

Implementation:



The Educators

Empowering minds, Shaping Future.



Hello.

How may I help you ?

Educational Query Others

Payment Query Workshop Query Career Query

Type your message here.

The Educators

Empowering minds, Shaping Future.



Hello.

How may I help you ?

Educational Query

Type your message here.

The Educators

Empowering minds, Shaping Future.



Hello.

How may I help you ?

Career Query

Type your message here.

Design Principle:

Design Dialogue to yield closure – The user has an active dialogue to clear any queries and reach to a conclusion.

Interaction Style:

Natural Language – Here, the user chats to understand any specific feature and resolve any query.

Hierarchical Task Analysis:

1.1 The chatbot says ask the user about his query.

1.2 The user replies with his query; educational query, career query, workshop query, payment query or other.

1.3 The chatbot further asks the user about the particular query in that domain.

7. Doubt Session Booking**Functionality:**

Students can ask questions about a particular topic on our website's doubt session page, and teachers will respond with clarifications. The objective is to offer a platform where students may explain their ideas and receive individualized attention from teachers.

Implementation:

The screenshot shows a web application interface for booking doubt sessions. The main page, titled 'Doubt Session Booking', features a navigation bar with links to Home, Courses, Career, Learning Lab, About Us, and Contact. Below the navigation bar, there is a flow diagram with three steps: 'Choose Subject' (represented by a hand icon), 'Post Your Doubt' (represented by a question mark icon), and 'Chat with Tutor' (represented by a chat bubble icon). Below the flow diagram, there is a section titled 'Chat Instantly with Experts' with a brief description and a note to use the chat window on the side. A list of instructions is provided: 1. Input the course, topic, type of session, time slot, time duration. 2. Input the question in the designated field and provide an image if necessary. Below the instructions, there is a note about the 'Permit Easy Reversal of Actions' feature. A modal form titled 'Ask Your Doubt' is highlighted with a red border. The modal form contains a list of instructions: 'Type complete doubt in the text box', 'Attach image of doubt for reference', and 'Be clear and precise'. It also has input fields for 'Course', 'Topic', 'Type of Session', 'Time Slot', and 'Time Duration'. There is an 'Image/Description' field with an 'Attach Files' button. At the bottom of the modal, there are 'Ask Your Doubt' and 'Cancel' buttons. Arrows point from the instructions in the main page to the corresponding fields in the modal form.

Doubt Session Booking

Choose Subject → Post Your Doubt → Chat with Tutor

Chat Instantly with Experts

Book your doubt session today with subject experts and get your queries resolved. Choose any topic of your choice with your convenient time slots and duration!

Use this chat window on the side to book your session today!

1. Input the course, topic, type of session, time slot, time duration.
2. Input the question in the designated field and provide an image if necessary.

Permit Easy Reversal of Actions: If users make a mistake or change their minds, they may easily modify or cancel their doubts.

Ask Your Doubt

- ✓ Type complete doubt in the text box
- ✓ Attach image of doubt for reference
- ✓ Be clear and precise

Course

Topic

Type of Session

Time Slot Time Duration

Image/Description

Attach Files

Ask Your Doubt Cancel

Design Principle:

Permit Easy Reversal of Actions - If users make a mistake or change their minds, they may easily modify or cancel their doubts.

Interaction Style:

Form Fill-in: The doubt session page will use a form fill-in interaction style, where users will be asked to fill in a form with details about their doubt, such as the topic and their specific question. This will allow for a structured and organized approach to addressing doubts.

Hierarchical Task Analysis:

- 1.1 Access the doubt session page from the dashboard.
- 1.2 Read the guidelines to ask doubt.
- 1.3 Input the course, topic, type of session, time slot, time duration.

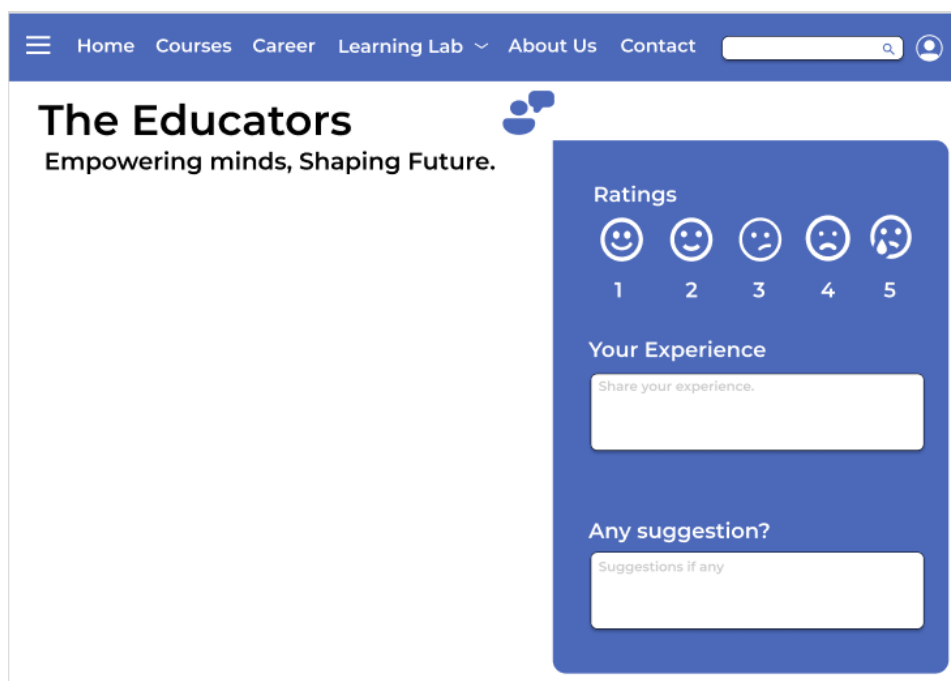
- 1.4 Input the question in the designated field and provide an image if necessary.
- 1.5 If all the requirements are filled, submit the question for a mentor or educator review.
- 1.6 Else enter all the details correctly.
- 1.7 When the mentor or educator has responded to your raised doubt, receive a notification.

8. Feedback

Functionality:

After using our site, we ask users to share their thoughts and opinions to help us improve. This feedback can also assist other users in making decisions on the site. We believe everyone's input is valuable in making the site better for all users.

Implementation:



The screenshot displays the 'The Educators' website interface. The header features a navigation menu with links: Home, Courses, Career, Learning Lab, About Us, and Contact, alongside a search bar and a user profile icon. The main content area includes the site's logo and tagline, 'The Educators Empowering minds, Shaping Future.' To the right, a blue feedback form is visible. This form contains a 'Ratings' section with five smiley face icons numbered 1 to 5. Below this is a 'Your Experience' section with a text input field labeled 'Share your experience.' At the bottom of the form is an 'Any suggestion?' section with a text input field labeled 'Suggestions if any'.

Design Principle:

Offers informative feedback – The user has an option to share his experience with the website and can also suggest some changes where he/she felt that this feature can be improved.

Interaction Style:

Form Fill in – Here, the user is asked to enter his experience in the form format. The user is asked to rate the website on the scale of 0-5 which is very accessible for the user. This approach is quite favourable for an effective answer from the user.

Hierarchical Task Analysis:

- 1.1 User selects the option for providing feedback from any page they are.
- 1.2 They can give ratings and fill in the information.
- 1.3 Once the form is filled, the user can submit the feedback.

Link to Design:

https://www.figma.com/file/8fEgh7akvCksvLwSrl7v4Q/The-Educators_HCI?node-id=0%3A1&t=BMtA7bzlqgygPjA0-1

Link to Prototype:

https://www.figma.com/proto/8fEgh7akvCksvLwSrl7v4Q/The-Educators_HCI?node-id=90-246&scaling=scale-down&page-id=0%3A1&starting-point-node-id=90%3A246

Link to Video:

https://drive.google.com/file/d/14FCq9Aefh-hEjLY8JQfov3PXVEN3s6es/view?usp=share_link