Ahmedabad University

CSE 519 Human Computer Interaction (Section 2)

Final Project Report

Submitted To: Prof. Anurag Lakhlani

Date Of Submission: 07/04/2023

Project Title: **The Educators**

Team Name: *Good Pointsss*

Team Detail

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Chapter 1

Motivation

Our educational website is driven by the passion to provide students with a comprehensive and enriching learning experience. We understand that education is not just about textbooks and exams, but also about gaining real-world experience and making informed decisions about future careers. That's why we offer a range of features such as online learning modules, workshops with industry experts, individualized mentorship sessions, doubt-clarification sessions, and career guidance.

Our website is designed in such a way that it meets the need of each student, with lecture videos and sessions offered in both English and Hindi. We also provide opportunities for students to gain practical experience through internships and industry tours, and to connect with potential employers through our job board. At our educational website, we are committed to providing the resources and support necessary for students to excel academically and professionally.

Providing everyone a single platform for all their educational and placement needs, The Educators 'providing a value for money platform' can be considered as another motivation.

Overview of the project

We want to build an educational website to provide students with a comprehensive learning experience. We wanted to create a single platform which can be helpful to people of all age groups. It can be used for educational purpose, various workshops, people who are seeking placement etc.

Things that will make us stand out:

- The website will offer a variety of features to enhance the education of our users, including online learning modules that cover a variety of subjects, interactive and engaging workshops, career guidance, internships and industry tours, individualized mentorship sessions, doubt-clarification sessions, and job opportunities.

- The modules are tailored to the needs of our users, and the workshops provide students with the opportunity to learn from experts in their field.
- The website will also offer career guidance and will help students make informed decisions about their future careers.
- The website will also provide internships and industry tours, which will give students the opportunity to gain real-world experience and network with professionals in their field.
- The website will also have an option for one-on-one mentoring sessions twice a month to guide students in determining which aspects of the course require additional practice and effort.
- Furthermore, all the lecture videos and sessions will be offered in both English and Hindi, according to the student's choice.
- Our platform will also provide a platform for students to connect with potential employers, with a job board that is constantly updated with the latest job openings and internships.

Overall, our educational website is designed to provide students with the information and tools they require to succeed in their academics and future employment.

Market survey of 3 real life products

1) Coursera:

Link: https://in.coursera.org/
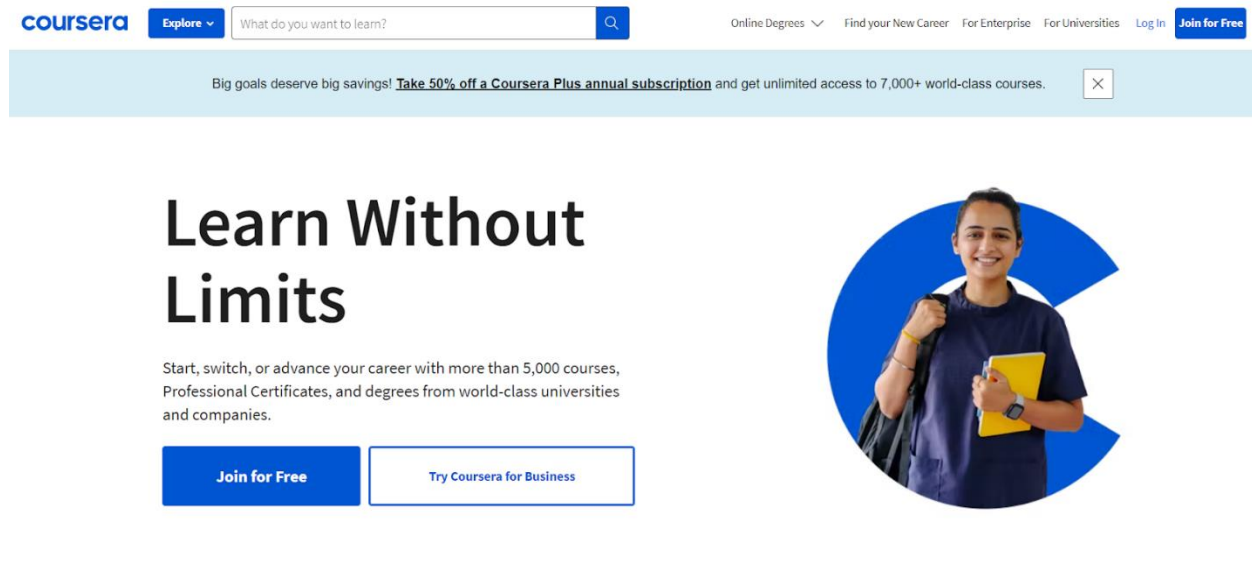
Coursera is an online learning platform that offers courses and certifications from top universities and organizations. It allows individuals to learn new skills and advance their careers through online classes and interactive assignments. Some users may find that the learning experience on Coursera is less interactive than in traditional classroom settings, as the platform mainly focuses on pre-recorded videos and quizzes. There is no such doubt session or mentoring available in Coursera so some users may find that the level of interaction with the instructors is limited, which could make it harder for them to get the support they need to learn effectively.

2) LinkedIn:

Link: https://www.linkedin.com/
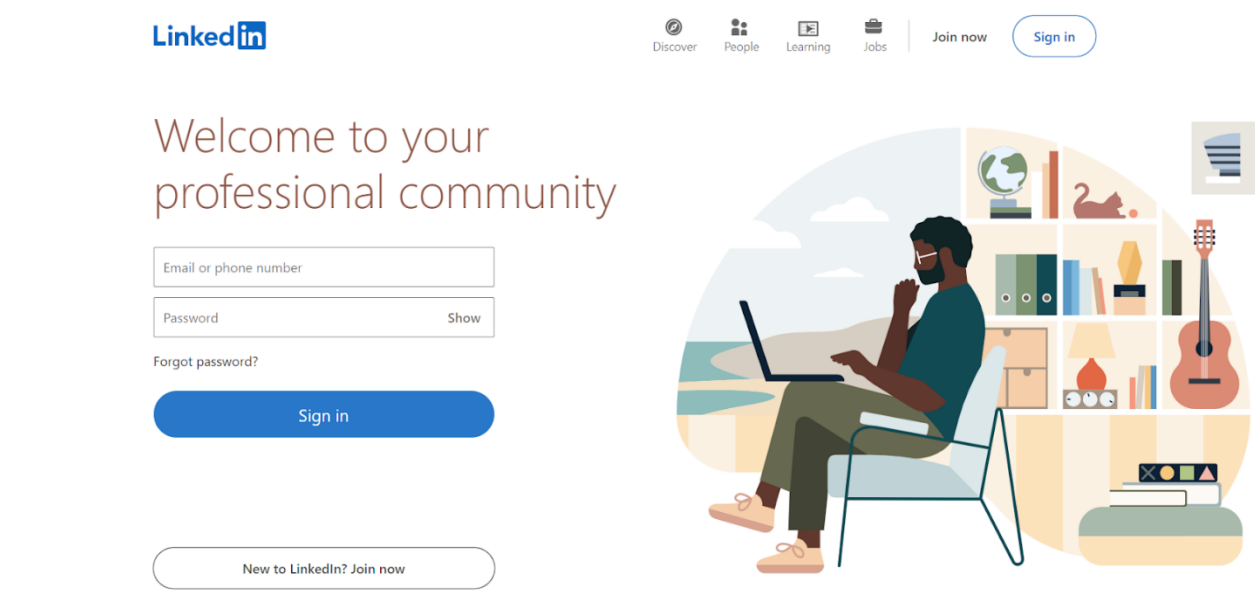
LinkedIn is a professional networking site that enables its users to network with other individuals, look for employment possibilities, build a professional profile, and showcase their abilities, experiences and knowledge, and stay updated with industry news and insights. There are some users who find it difficult to find job opportunities that match their qualifications and experience. Also, there are some users who have an issue with not having enough control over who can see their profile and what information is visible to others because of which they might be targeted by spammers and scammers on LinkedIn. There are many users on LinkedIn who finds that the analytics provided by LinkedIn is limited for normal users as compared to premium users.

3) **Khan Academy**

Link: https://www.khanacademy.org/
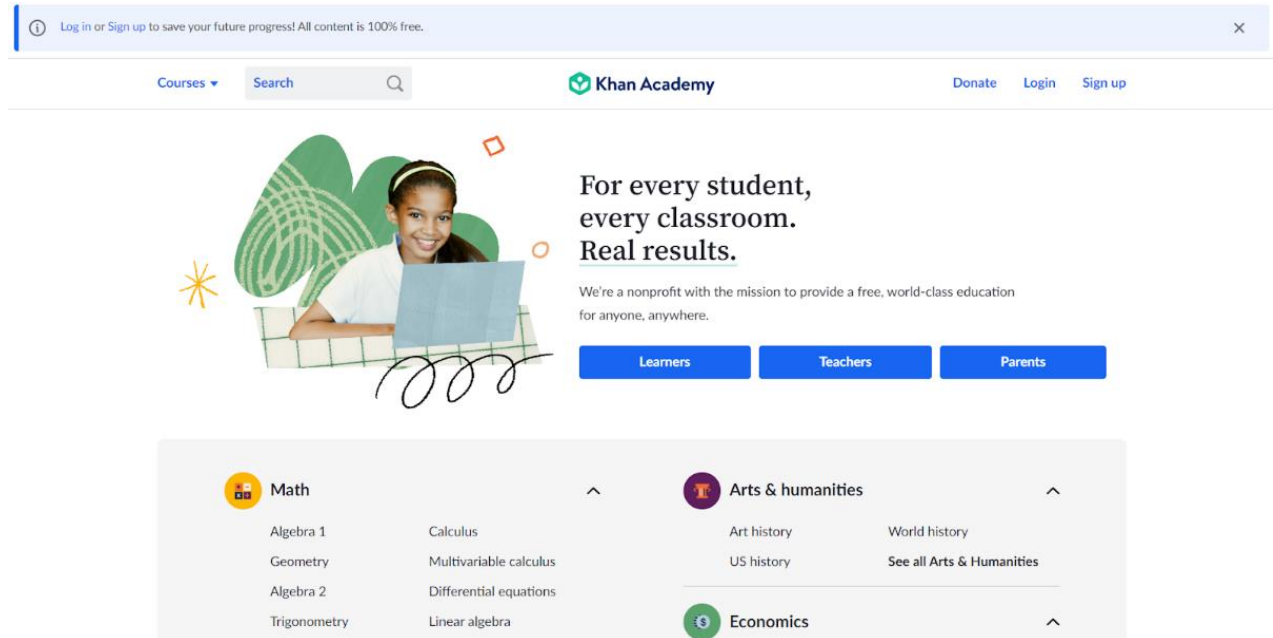
Khan Academy is a non-profit educational institution that offers free, top-notch instruction to everyone, anywhere. It offers a wide range of educational resources including videos, practice problems, and articles on a variety of subjects from math and science to history and economics. While Khan Academy offers a wide range of educational resources, it may not cover all subjects or at the level of detail that some users need. Some users may find that Khan Academy's resources are not well-suited for their learning style, which could make it harder for them to learn effectively. Some users may find that Khan Academy's resources are primarily in English and may not be available in other languages.

Chapter 2

Feature Details of Figma:

1. 3D Transformer

With the ability to transform any frame into a remarkable 3D mockup in an instant, this feature lets you effortlessly spin the frame into the 3D environment. It is compatible with both frames and images, and conveniently saves your previous settings, allowing you to seamlessly switch to another image without exiting the model.

To utilize this feature, select the desired frame or image, launch the plugin, and fine-tune the sliders until you achieve the desired 3D effect. Then, incorporate the resulting image into your project.

2. Prototyping

Figma's prototyping tools are also very powerful. You can create complex interactions, such as hover states, transitions, and animations, all within Figma. Figma's prototyping feature is particularly useful because you can test your designs on different devices and screen sizes, making it easy to see how your design will look and function across different platforms.

3. Collaboration

Figma's real-time collaboration feature is its biggest selling point. Multiple team members can work together on the same design file in real-time, making it easy to get feedback and make changes quickly. Figma also offers version control, so you can easily track changes and roll back to previous versions if necessary.

4. Download at the link:

Figma's component system is another standout feature. Components are reusable design elements that can be easily updated across multiple instances in your design, making it easy to maintain consistency

throughout your designs. Figma's components are particularly powerful because they can be nested within one another, allowing for even more flexibility in your designs.

5. Pricing

Figma offers a free plan with limited features, but its paid plans are competitively priced. The professional plan offers unlimited design projects, version history, and design components for $15/user/month. The organization plan offers additional features such as team libraries, advanced security, and SSO for $45/user/month.

Comparison of the tool you are using with any other two similar tools.

| Feature	Figma	Adobe XD	Canva
Collaboration	Real-time collaboration and version control make it easy for multiple team members to work together	Collaboration features include shared prototypes, design specs, and cloud documents	Collaboration features include shared designs and folders, comments, and collaborative editing
Design Components	Figma's powerful component system allows for efficient design and easy updating of repeated elements	Adobe XD's component system is also strong and offers the ability to create nested components	Canva allows you to create and save templates, but lacks the more advanced component system of Figma and Adobe XD
Prototyping	Figma's prototyping tools are powerful and allow for the creation of complex interactions	Adobe XD's prototyping tools are also powerful and allow for the creation of animations	Canva's prototyping tools are more basic and limited compared to Figma and Adobe XD
Pricing	Figma offers a free plan with limited features, but paid plans are competitively priced	Adobe XD offers a free plan with limited features, but paid plans can be more expensive	Canva offers a free plan with limited features, and its paid plans are more expensive compared to Figma and Adobe XD

Chapter 3

Project Planning and Preparation

1. **Paper-pen designs of the screens**

Designs for:

- **Home page:**
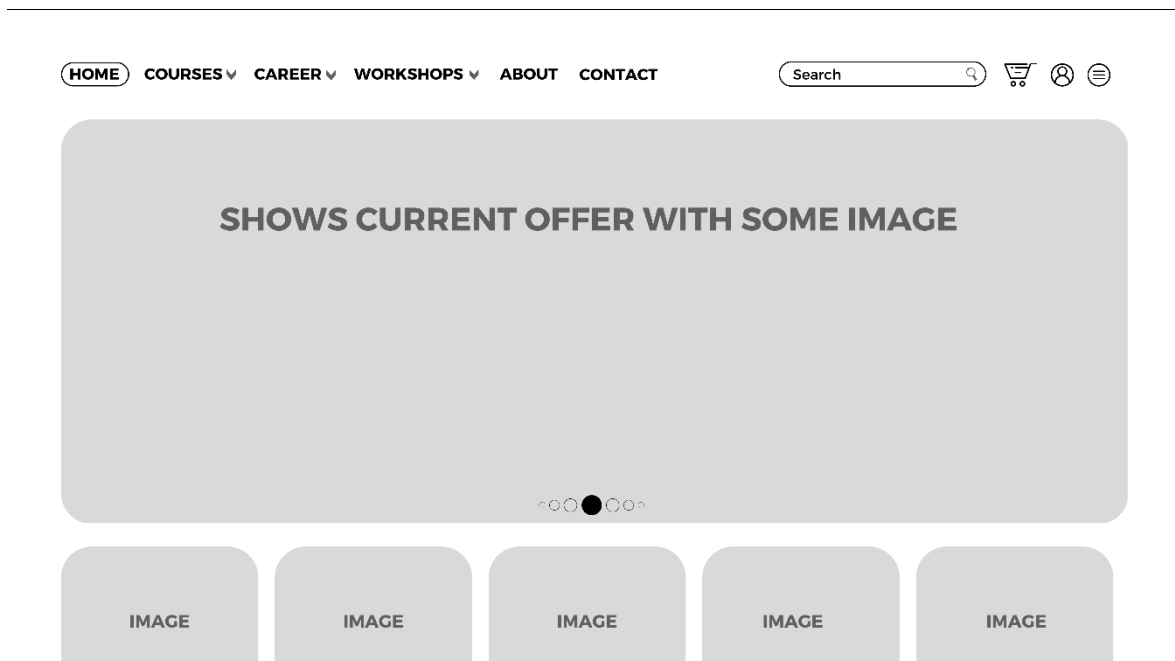
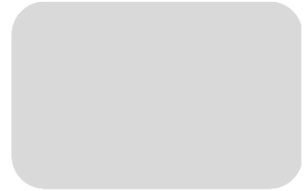HOME COURSES CAREER WORKSHOPS ABOUT US CONTACT

Empowering Minds, Shaping Future.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum ipsum augue, tincidunt ut arcu id, venenatis efficitur leo.

LEARN MORE   **SIGN UP**

THOUGHT OF THE DAY

BACKGROUND IMAGE

LOGO **Home** **Courses** **Opportunities** **Workshops** **Guidance**   About us   Contact us

THE EDUCATORS

🔍 Search....   ✕

Background image

- Courses Page
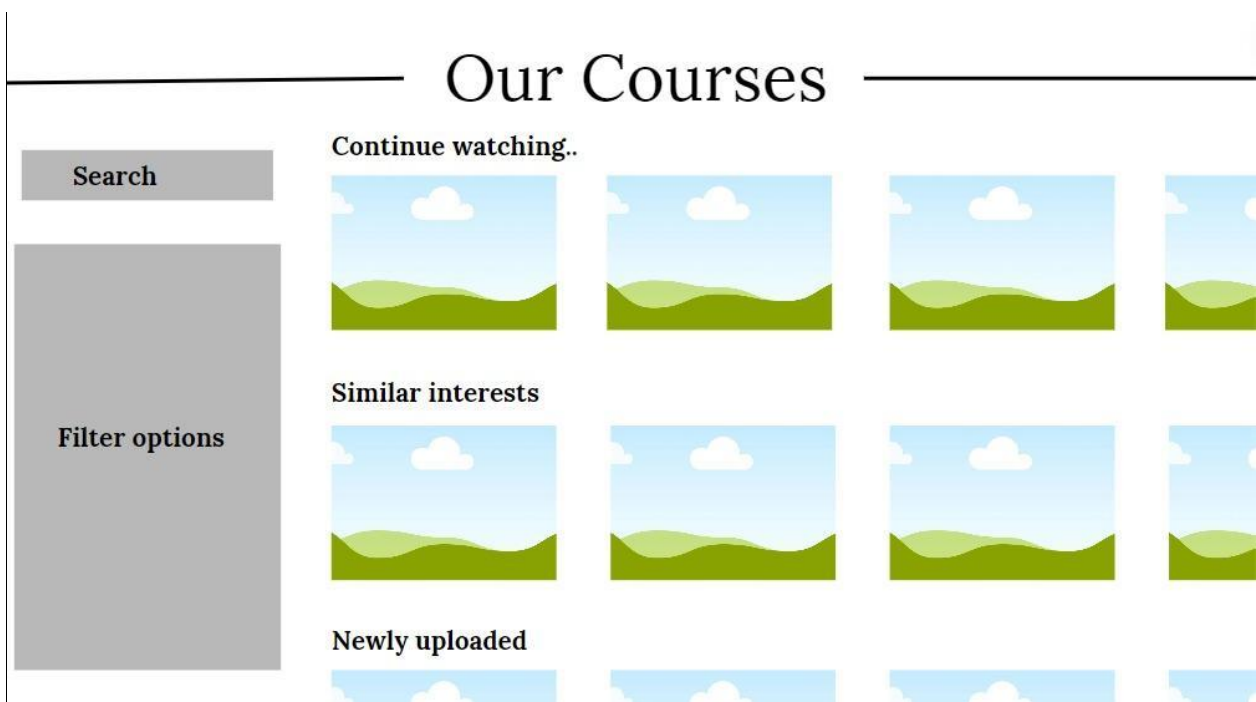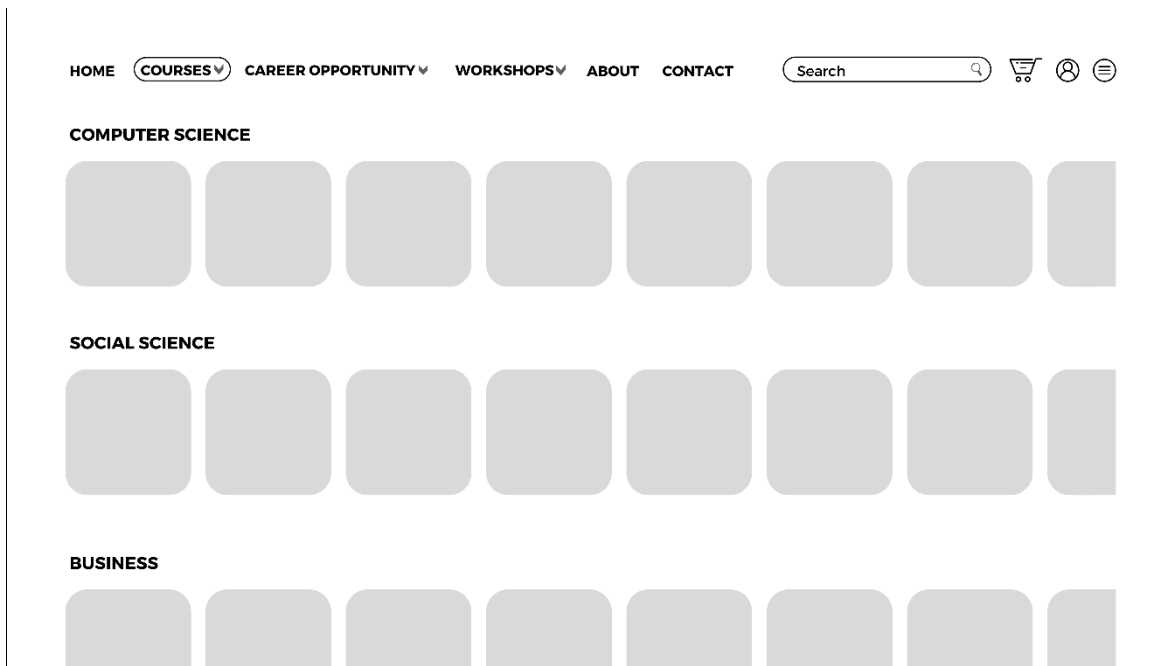
- Doubt Session Page

HOME COURSES▾ CAREER OPPORTUNITY▾ WORKSHOPS▾ ABOUT CONTACT   Search

DOUBT SESSION BOOKING

COURSE

TOPIC

TIME SLOT

TYPE OF SESSION

TIME DURATION

IMAGE/ DESCRIPTION

⬆ UPLOAD FILE

NEWSLETTER

- Career/Job Opportunity Page

HOME COURSES CAREER WORKSHOPS ABOUT US CONTACT

COMPANY 1

BASIC DESCRIPTION

APPLY NOW

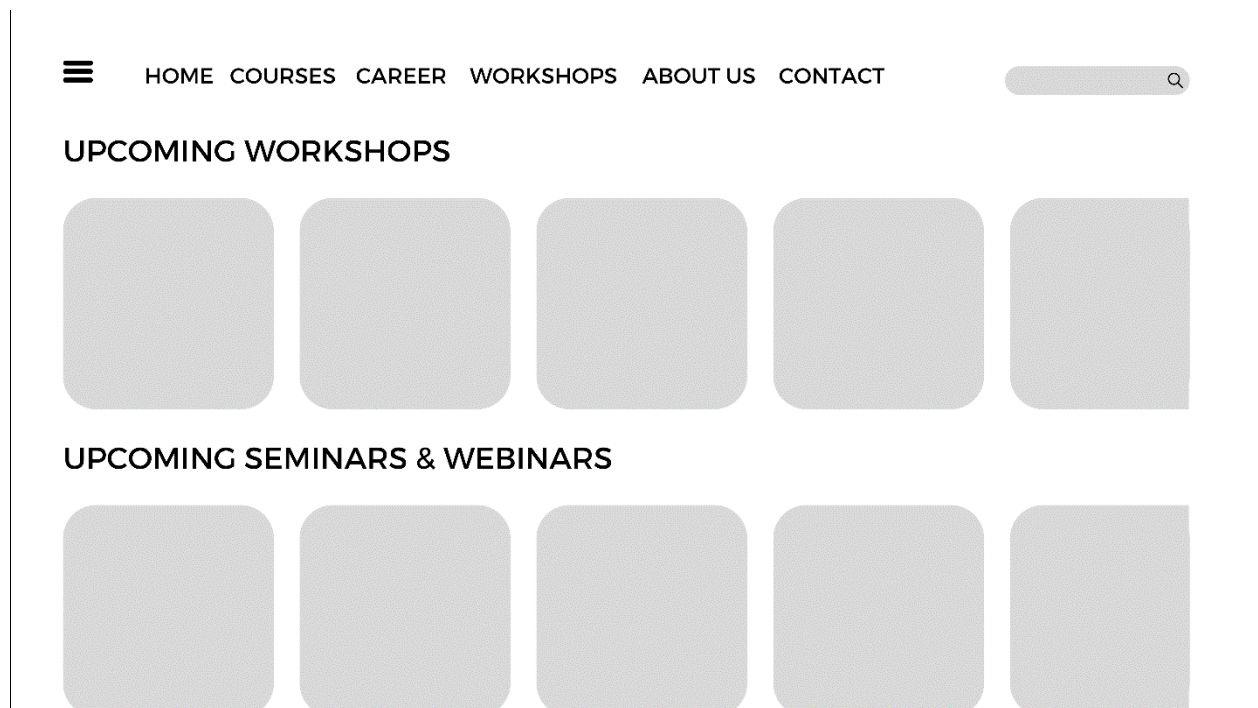**COMPANY 2**

BASIC DESCRIPTION

APPLY NOW

COMPANY 3

Opportunities

Search

Filter options

Placements

Heading

Description

Internships

- Workshops Page

≡   HOME   COURSES   CAREER   WORKSHOPS   ABOUT US   CONTACT   🔍

UPCOMING WORKSHOPS

UPCOMING SEMINARS & WEBINARS
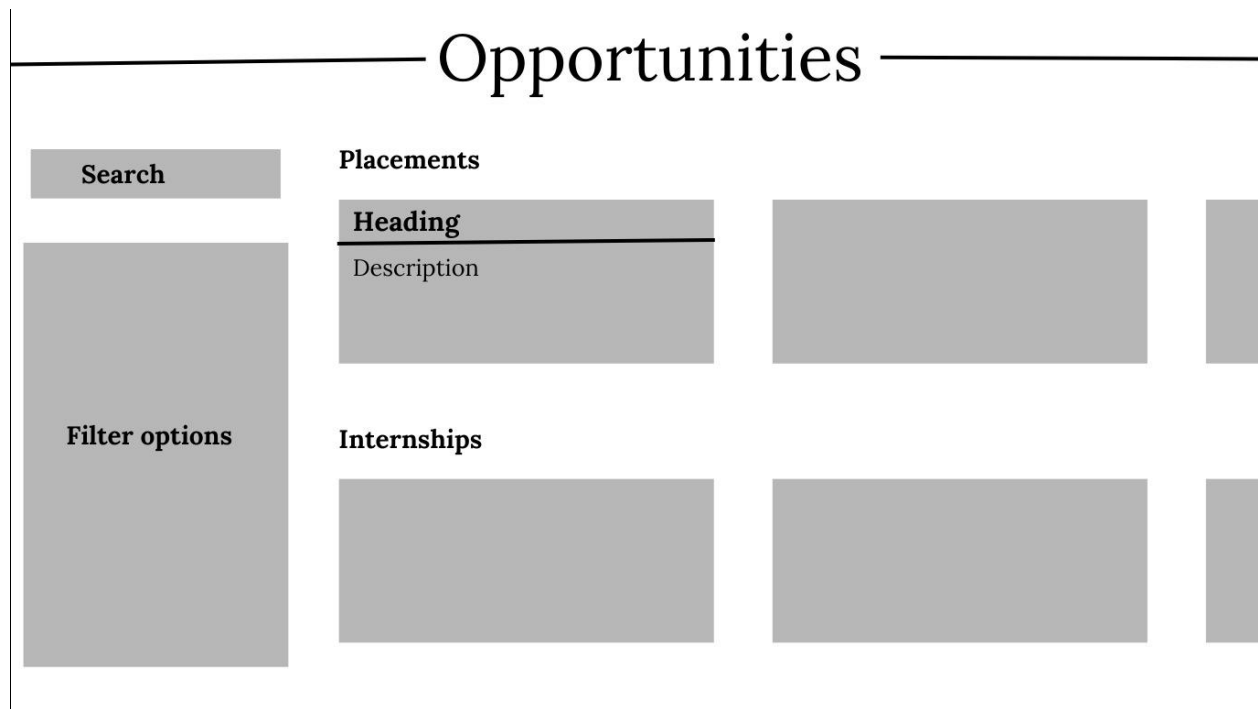
- About Page

WHO WE ARE

THE "USE" PAGE OF OUR EDUCATIONAL WEBSITE IS A RESOURCE FOR STUDENTS TO ACCESS THE PLATFORM'S FEATURES AND RESOURCES.

IT PROVIDES INFORMATION ABOUT ONLINE LEARNING MODULES, INTERACTIVE WORKSHOPS, CAREER GUIDANCE SERVICES, AND INTERNSHIPS/INDUSTRY TOURS.

IT ALSO INCLUDES INFORMATION ABOUT INDIVIDUALIZED MENTORSHIP SESSIONS AND THE JOB BOARD.

THE PAGE HELPS STUDENTS USE THE PLATFORM EFFECTIVELY AND MAKE INFORMED DECISIONS ABOUT THEIR ACADEMIC AND CAREER GOALS.

✉ Customer Service

- Services Page

Services we Provide

Courses	Placements and Internships
Workshops	Career Guidance

Persona development

Persona 1

Neha is a 25-year-old recent college graduate who is interested in furthering her education and professional development. She majored in business and is currently working in a marketing role at a small tech company.

Quote: "Education is the key to unlocking your potential and achieving your dreams."

Behaviours: She is a motivated and goal-oriented individual who is willing to invest time and money in her personal and professional development. She is also tech-savvy and comfortable using online platforms to access educational resources.

Goals: To acquire new skills and knowledge that will help her advance in her career, as well as exploring new areas of interest and develop a well-rounded skill set.

Pain Points: Overwhelmed by the number of educational options available online, and struggles to find high-quality courses and resources that fit her budget.

Personality: Conscientious, organized, driven and values education and personal growth.

Motivations: The prospect of advancing in her career and achieving her long-term professional goals and also, the sense of accomplishment that comes with completing a challenging course
or program.

Persona 2

John is a recent graduate with a Bachelor's degree in Computer Science, seeking opportunities to gain practical experience and kickstart my career in the tech industry. Passionate about learning new skills and exploring new technologies.

Quote: "Learning is a continuous process, and I am always eager to expand my knowledge and skills."

Brand Preference: Google, Amazon, or Apple.

Behaviours: He is actively seeking out new learning opportunities, staying up-to-date with the latest trends in their field, and networking with professionals in their industry.

Goals: To gain practical experience in their field, build a professional network, and eventually secure a full-time job with a reputable company.

Pain Points: lack of practical experience, difficulty standing out in a competitive job market, and the stress of navigating the job search process.

Personality: Driven, curious, and adaptable.

Motivations: A desire to learn and grow professionally, a passion for their field, and a determination to succeed in their career.

Persona 3

Sarah is a 25-year-old recent college graduate who is interested in furthering her education and professional development. She majored in business and is currently working in a marketing role at a small tech company.

Quote: "I want to find a career that aligns with my values and passions, and allows me to make a positive impact in the world."

Behaviours: She is a motivated and driven individual who is constantly seeking new opportunities to grow and develop professionally. She is not afraid to take risks and try new things, but she also values stability and security in her career. Sarah is a lifelong learner who enjoys exploring new ideas and acquiring new skills.

Goals: To find a fulfilling career that allows her to use her skills and talents to make a positive impact in the world and that aligns with her values and passions and allows her to achieve personal and professional success.

Pain Points: Sarah can become frustrated when she feels stuck in her career, or when she is unable to find opportunities that align with her values and passions. She can also struggle with indecision, as she wants to make sure she is making the right choices for her future.

Personality: Sarah's personality type is likely to be INFJ (Introverted, Intuitive, Feeling, Judging). INFJs are known for their strong sense of empathy, their deep concern for others, and their ability to see the big picture. They are also highly intuitive and creative, and they are driven by a desire to make a positive impact in the world.

Motivations: The desire to make a positive impact in the world and to use her skills and abilities to help others, to achieve personal and professional success, to be recognized for her achievements, and to make a difference in her community.

Persona 4

Jeel is pursuing engineering in the computer science domain. She is an astute student who is passionate about her career. She is currently in her second year of college. She likes to utilize her free time and is always keen to learn something new. She constantly searches for some courses to upgrade her knowledge in her field. She wants to enhance her practical skills and look into the real-life application of the same.

Quote: "To secure a job in a dream company, I must enhance myself with more and more knowledge"

Brand Preference: Coursera and Youtube.

Behaviours: She is always ready to perform her best and is not afraid to do hard work. She uses Udemy and Codechef for learning and coding skills.

Goals: To seek knowledge and utilize her free time.

Pain Points: She wants to get in touch with the real-life application of what she studies. She uses a certain website but she wants to test her skills in order to improve her skills which she is unable to get.

Personality: Intelligent, introvert, perceiving and analytical.

Motivations: To achieve great heights in her career with dignity and gain more knowledge in her domain.

Scenario Description and Use Cases

Scenario 1:

Neha is a marketing professional who has been working in the field for a year. She wants to learn new skills and stay up-to-date with the latest marketing trends, so she decides to explore Educator's workshops and seminars. She logs into the website and goes to the "Workshops" section to browse the available courses.

After going through the different categories, Neha finds a workshop on "Social Media Marketing Strategies" that she's interested in. She clicks on the workshop to see more details, such as the course description, instructor information, and course length. The course seems perfect for her needs, so she checks the pricing and finds that it's affordable.

Next, Neha reviews the workshop's syllabus to ensure it aligns with her learning objectives. She finds that the course covers various social media platforms and has practical applications that will benefit her in her role. She reads through the reviews and finds that previous students have rated the course highly.

Feeling confident in her decision, Neha enrolls in the workshop and schedules her time accordingly to complete it. The workshop provides her with valuable insights, tips and tricks that help her in her job, and she feels happy to have invested in her professional development.

Use Case 1:

The use case for the user to buy the product would be the following:

1. Neha logs into Educator's website and navigates to the "Workshops" section.
2. The website loads the Workshops section and displays the available workshops and seminars.
3. Neha selects the "Marketing" category to narrow down the options and sees a workshop on "Digital Marketing Strategies for Small Businesses."

4. The website loads the workshop details, including the course description, syllabus, instructor information, and pricing.

5. Neha reads through the course description and syllabus to ensure it aligns with her learning objectives and interests.

6. The website displays the course details and provides the option to enroll in the workshop.

7. Neha checks the pricing and reviews left by previous students to get an idea of the course's quality.

8. The website displays the pricing and reviews left by previous students.

9. Satisfied with her decision, Neha enrolls in the workshop and adds it to her cart.

10. The website adds the workshop to her cart and directs her to the checkout page.

11. Neha enters her payment information and completes the checkout process.

12. The website processes the payment and sends Neha a confirmation email with the course details and access instructions.

13. Neha follows the access instructions to start the workshop and begin learning.

14. The website grants Neha access to the workshop and provides her with the necessary materials to complete it.

Alternative path:

11)   The payment information is incorrect.

11.1) The website displays an error message.

11.2) Neha re-enters the correct details.

11.3) Go to Step 12.

Scenario 2:

Sarah is a recent college graduate who is feeling lost and uncertain about her career path. She has always been passionate about making a positive impact in the world, but she's not sure how to translate that into a fulfilling career. One day, Sarah comes across a career guidance website that promises to help her find a career that aligns with her values and passions.

Excited by the prospect, Sarah begins exploring the website and filling out a series of questionnaires that assess her skills, interests, and values. The website then provides her with a list of potential career paths, along with detailed descriptions of each one, including job duties, salary ranges, and educational requirements.

Sarah spends hours reading through the information and reflecting on her options, and she begins to feel more confident and excited about her future. She even discovers a few career paths that she had never considered before but that sound perfect for her.

By the time Sarah finishes exploring the website, she feels empowered and motivated to take the next steps towards her career goals. She thanks the website for providing her with such valuable guidance and sets out to research the careers she's most interested in, with a newfound sense of clarity and purpose.

Use Case 2:
1. Sarah navigates to the career guidance website and creates an account.
2. The website asks Sarah to fill out a questionnaire to assess her skills, interests, and values.
3. Sarah fills out the questionnaire and submits it.
4. The website generates a list of potential career paths based on Sarah's responses.
5. Sarah reads through the list of career paths and selects a few that interest her.
6. The website provides detailed descriptions of each career path, including job duties, salary ranges, and educational requirements.
7. Sarah reads through the descriptions and reflects on her options.
8. Sarah decides to research two of the careers further.
9. The website provides links to external resources for Sarah to research careers.
10. Sarah reads through the external resources and gains a better understanding of the careers.
11. Sarah decides that one of the careers is not a good fit for her after all.
12. Sarah decides to pursue another career and begins researching educational programs.
13. The website provides a list of educational programs for Sarah to consider.
14. Sarah selects a few programs to research further.
15. Sarah thanks the website for its guidance and closes the website.

Alternative path:

8 If the product is not available

       8.1 The sites shoots the message of out of stock

Scenario 3:

John, a recent Computer Science graduate, is browsing through educational websites to find job and internship opportunities. He lands on Educator's homepage and starts exploring the different courses and programs available on the platform. While browsing, he notices the "Career" section and clicks on it. He is impressed to see that Educator offers a variety of career services, including job listings, resume reviews, and interview preparation.

John decides to explore the job listings section and filters the results by location and job type. He is excited to see several job and internship opportunities that match his interests and qualifications. He reads the job descriptions carefully and clicks on the ones that catch his eye. He is taken to a page that provides more details about the job, including the requirements, responsibilities, and application process.

John decides to apply for a few of the opportunities and uses the resume review service offered by Coursera to ensure his resume stands out. With the help of the platform, he is able to apply for several jobs and internships that match his interests and qualifications, feeling confident and optimistic about his prospects.

Use case 3:

1. John logs in to the Educator's website and navigates to the "Career" section.
2. The system provides a section for career services, including job listings, resume reviews, and interview preparation.
3. John filters the job listings by location and job type.
4. The system displays job listings based on John's filters.
5. John selects a job listing and clicks on it to view more details.
6. The system displays more information about the job, including the requirements, responsibilities, and application process.
7. John decides to apply for the job.
8. The system provides a resume review service to help John improve his resume.
9. John uses the resume review service and makes necessary changes.
10. The system confirms that John's resume is complete and ready for submission.
11. John submits his application and resume.
12. The system processes John's application and sends a confirmation message to him.
13. John receives the confirmation message, indicating that his application has been received and is under review.

Alternative path:

10)   John observes an error in his resume and go back to the application page.

10.1)   The system processes the changes made by John and verifies it.

10.2   Go to step 11.

Scenario 4:

Jeel was engaged in searching for a video related to machine learning on an educator's website. Initially, she logged in to the website and started exploring the videos, but she was unable to find the particular course she was looking for.

As a result, she decided to use the search button and typed in "machine learning" to obtain relevant results. This search generated various options for courses on machine learning and artificial intelligence. Jeel proceeded to go through the details of each course and shortlisted a few that piqued her interest. After

weighing her options, she finalized a course that she wanted to enroll in.

Luckily, the course was offered free of charge, and Jeel was able to enroll in it without having to pay any fees. She began watching the video and continued for some time before closing the website. When she later reopened the site, she was able to pick up where she had left off in the video.

Use Cases 4:
1. The system prompts for username and password.
2. After completing the sign up, the user signs in the website.
3. System verifies the user password.
4. The website displays the categories of different courses to pursue.
5. The user chooses the search option.
6. The system displays the search menu.
7. The user types the Course of his choice.
8. The website shows all the options available related to the course the user has searched.
9. The user selects the course of his/her choice.
10. The user went through the time duration, costing and other details.
11. The user selects the course.
12. The user can choose the payment method.
13. After the payment is confirmed and the user is enrolled in the course.

Alternative path:

4)   If user password is not valid

4.1)   The system displays an error message.

4.2)   The system returns to step 1.

Chapter 4

Project Features

1. Feature: Background Switching

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.

Design 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. **Feature: Drop Down Menu for Learning Lab**
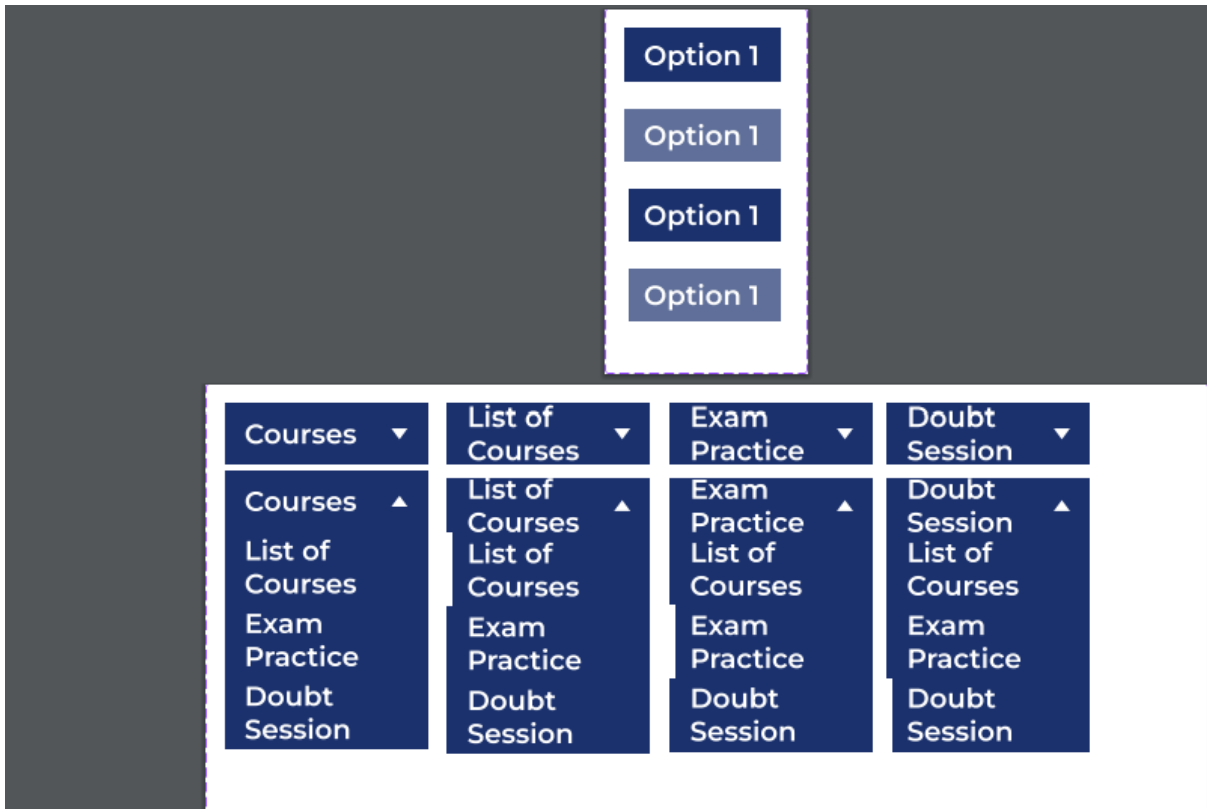
Functionality:

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

Design 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. **Feature: 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.

Design 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. Feature : 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.

Design Implementation:

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. Feature : 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.

Design Implementation:
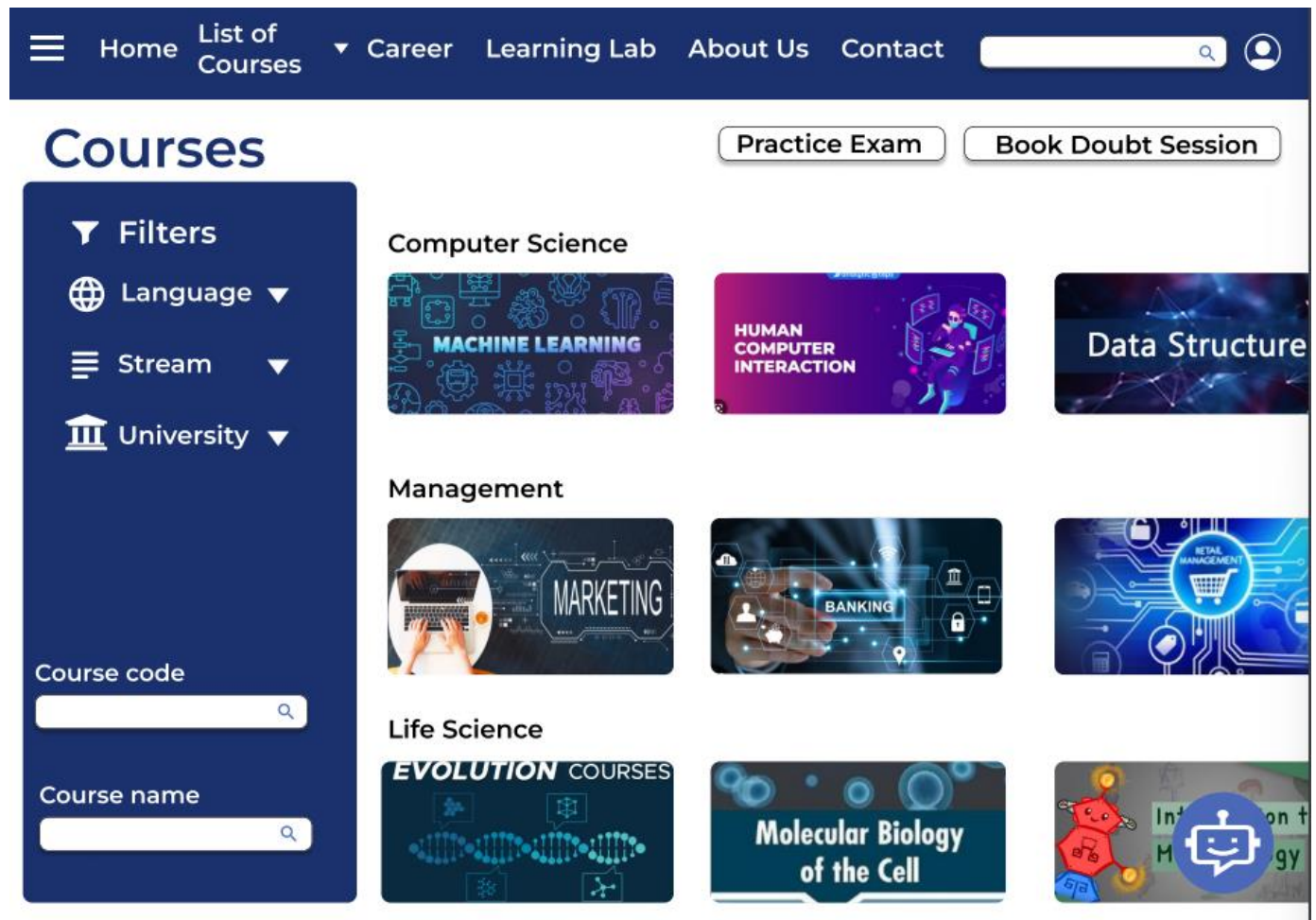
Usability Goals:

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. Feature: 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

Design Implementation:
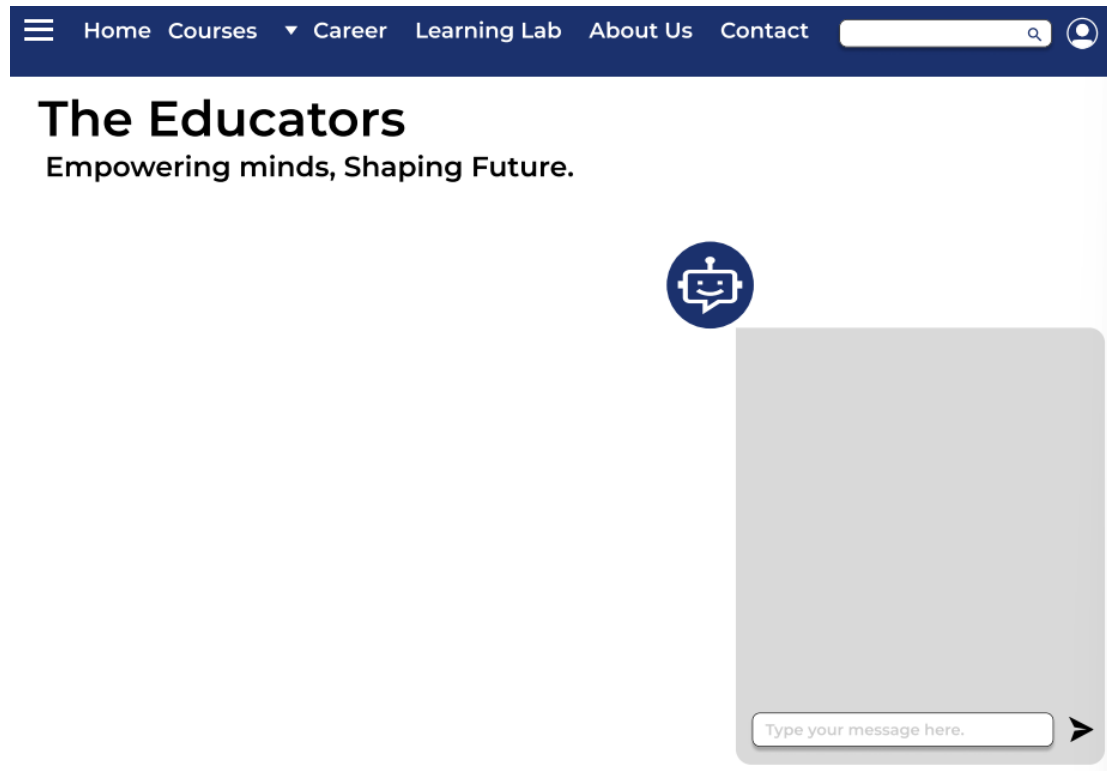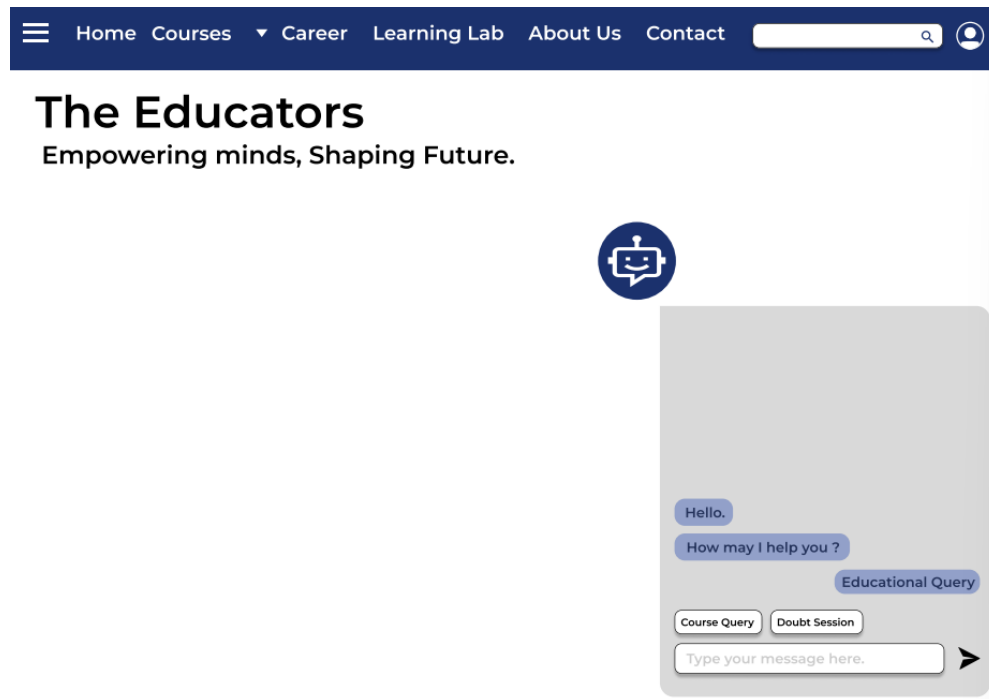
Design Principle:

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. **Feature : 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.

   Design Implementation:

   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

8. **Feature : <u>Feedback</u>**

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

Design Implementation:

Course Details

Accessed Courses

MACHINE LEARNING

Economics

Bookmarks

Data Structure

ESSENTIAL COMMUNICATION SKILLS

Time Table

Today, 14th March 2023

5:30 - 6:30 pm
Economics

6:30 - 7:10 pm
Machine learning

16th March 2023

9:00 - 10:00 am
French

5:30 - 6:30 pm
Economics

Home Courses ▼ Career Learning Lab About Us Contact

Edit Profile

Personal Information

Jeel Patel

Change Password

Personal Information

Educational Information

First Name
Jeel

Last Name
Patel

Email Address
jeelpatel21@yahoo.com

Location
Ahmedabad, Gujarat, India

Bio
I constantly search for some courses to upgrade my knowledge in my field. I want to enhance my practical skills and look into the real-life application of the same.

Design Principle:

Easy Reversal of Actions: Users can change their details at any time they want. There is a metaphor of a pen for the edit option of profile. Along with it they can change passwords and any other details.

Interaction Style:

Form filling: Users see a display of related fields and enter data when required. The same form will be for the options of changing password and educational information.

Hierarchical Task Analysis:

> 1.1 User clicks on the profile option.
>
> 1.2 The system will show a drop-down list.
>
> 1.3 The user chooses to go on profile settings.
>
> 1.4 The system opens the Edit profile page.
>
> 1.5 User click on the pen symbol and changes the profile picture
>
> .

9. Features : Practice Tests

Functionality: Users click on the practice exam tab and the system directs them to the page of giving the exam. They can apply filters of their choice and can proceed with the test.

Design Implementation:

Design Principle:

Offer Informative feedback: The green symbol for attempted and read symbol for not attempted is designed in such a way that the user gets continuous feedback for their actions. This allows user to continue with activities.

Interaction Style:

Menu selection: The filters give the option to the user to directly go to the exam they want to apply for. This enhances the decision making process of the user.

Hierarchical Task Analysis:

1.1 Users click on the Practice Test tab.

1.2 The system opens the exam page.

1.3 User uses the filters to give an exam of his choice.

1.4 He selects the exam he want to appear for.

1.5 The system starts the exam.

1.6 He answers all the questions.

      1.6.1   He thought the answer could be wrong.

      1.6.2   He selects the clear option for that question.

      1.6.3   System clears the choice and he answers again.

10. Features : Payment Page

Functionality: When the user clicks on any course, a course descriptive page opens up. User can see the pricing of that particular course as well as the current offer running on that particular course. The actual price, discounted page as well as the discount is mentioned. User can click on the "Buy Now" button to move further to the payment page. This payment page contains various method for payment like UPI, credit/debit card, pay later option and many more. User can any option as per his/her convenience.

Design Implementation:

Screen 1

Home Courses ▼ Career Learning Lab About Us Contact

Payment Options

All UPI Options
Pay Directly From Your Bank Account

Credit/Debit/ATM Cards
Visa, MasterCard, Amex, Rupay and many more

Book Now Pay Later
Tripmoney, Lazypay, Simpl, ZestMoney, ICICI, HDFC

Net Banking
All Major Banks Available

Gift Cards, Wallets & More
Gift Cards, Mobikwik, AmazonPay

EMI
No Cost EMI

GooglePay
Pay with Google Pay

Enter UPI ID

mobileNumber@upi

Verify and Pay

Enter your registered VPA — Request payment request on bank app — Authorize payment request

Your order

HUMAN COMPUTER INTERACTION

Human Computer Interaction
By Anurag Lakhlani
10 total hours • 36 lectures • Intermediate

$ 12
$ 50

Save for Later   Move to Wishlist   Remove

Total:
$ 12
$ 50
76% off

Checkout

Screen 2

Home Courses ▼ Career Learning Lab About Us Contact

Payment Options

All UPI Options
Pay Directly From Your Bank Account

Credit/Debit/ATM Cards
Visa, MasterCard, Amex, Rupay and many more

Book Now Pay Later
Tripmoney, Lazypay, Simpl, ZestMoney, ICICI, HDFC

Net Banking
All Major Banks Available

Gift Cards, Wallets & More
Gift Cards, Mobikwik, AmazonPay

EMI
No Cost EMI

GooglePay
Pay with Google Pay

Card Number

Enter Your Card Number Here

Name on Card

Enter Your Name On Card

Expiry Month & Year   Card CVV

Month ⌄   Year ⌄   Enter Card CVV

Pay Now

Your order

HUMAN COMPUTER INTERACTION

Human Computer Interaction
By Anurag Lakhlani
10 total hours • 36 lectures • Intermediate

$ 12
$ 50

Save for Later   Move to Wishlist   Remove
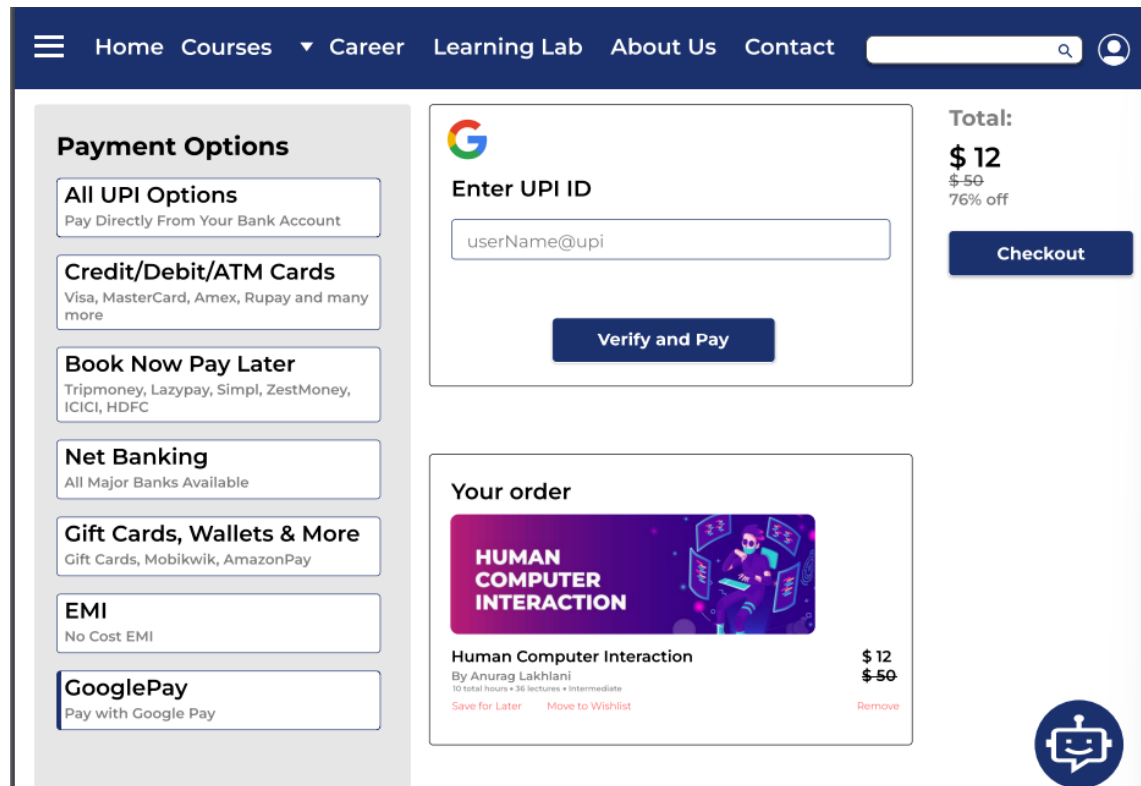
Total:
$ 12
$ 50
76% off

Checkout

Design Principle:

Offer Informative Feedback: Here, the original price, discounted price as well as the discount is clearly mentioned. This makes the user aware about the pricing and discount very efficiently.

Interaction Style:

Direct Manipulation: User can click any option available for payment as per his/her convenience, providing a sense of control and responsiveness to the user.
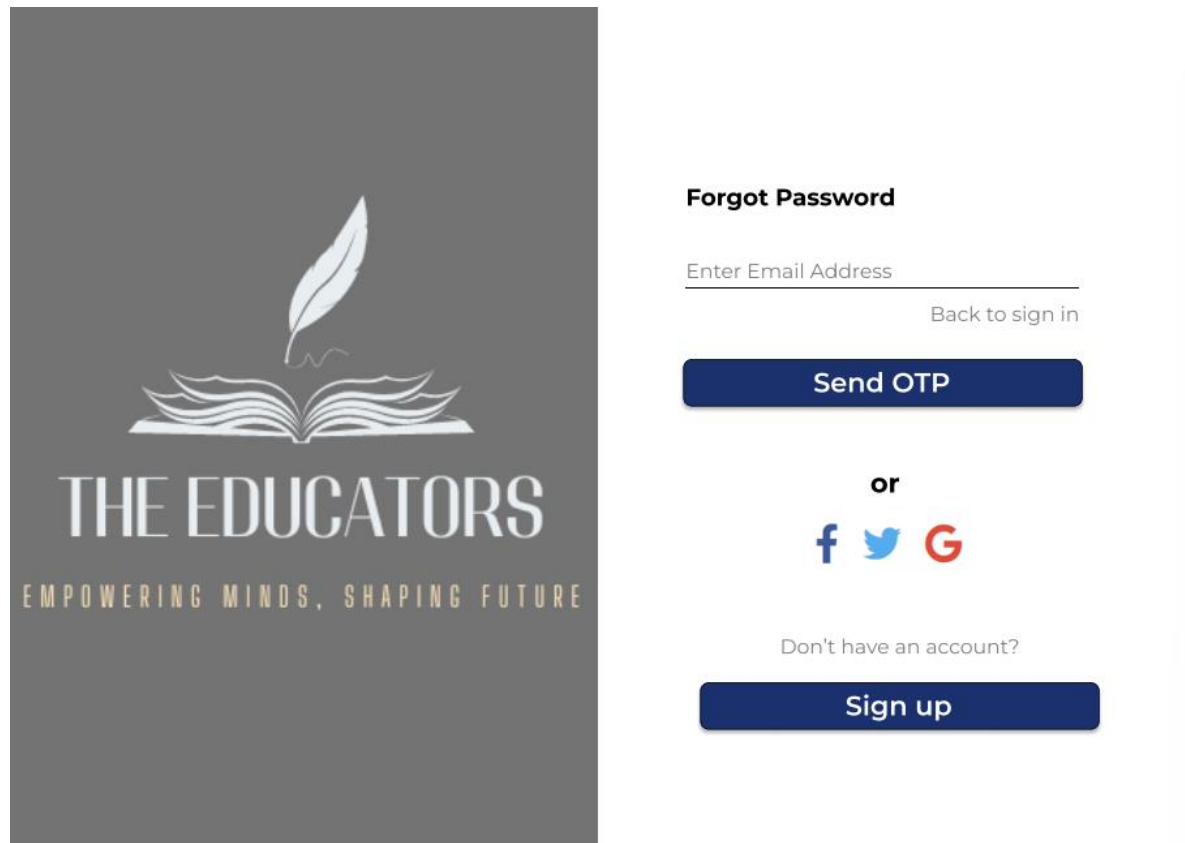
Hierarchical Task Analysis:

1.1 User clicks on any course as per his/her choice.
1.2 The course description page opens up.

1.3 After analysing the pricing and the discounts running, the user can click on "Buy Now" to buy the course.

      1.3.1   The payment page opens up.

      1.3.2   User can choose any payment option from the available list as per his/her convenience.

      1.3.3   After completing the details, user can buy the course.

1.4 Else, he/she can click on the heart option given beside the "Buy Now" button to add it to his/her wishlist.

11. Features : <u>Forgot Password</u>

This is very basic and critical feature of Ecommerce website which allows user to pay online and through a very secure gateway to ensure their security and it should be designed in such a way that it should prevent errors and be simplistic to use for customer.

Design Implementation

Design Principle :

Feedback: Systems provides a message to the user if he/she enters incorrect information about email Id and password. And if the user enters the correct information it will continue the further process.

Interaction style:

Form filling: Here again the user has to enter all the sufficient details for the further procedure.

Hierarchical Task Analysis:

1.1 User enters the incorrect information

1.2 System directs to the forgot password page

1.3 User enters the email id

1.4 User enters the OTP sent by the system.

.

12. Features : Careers

Functionality: This page is for the users who want to seek job from our page. They can directly reach on that page from the home page and use filters for searching their appropriate job.

Design Implementation:
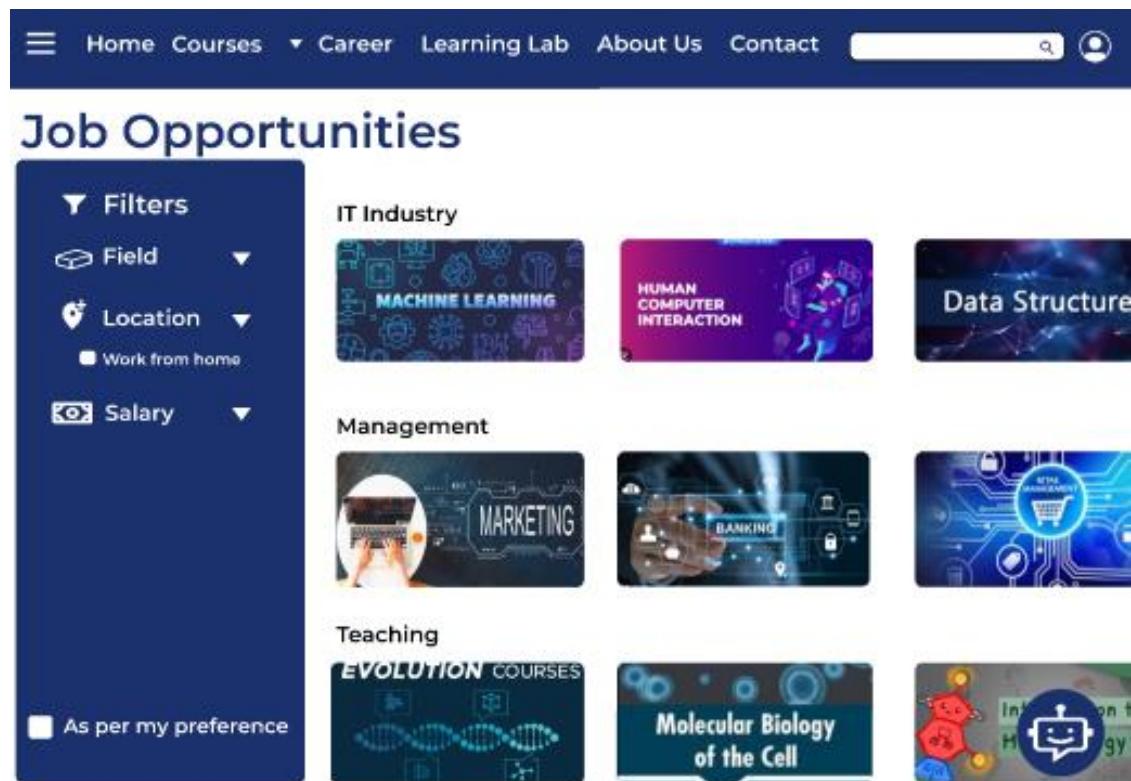
Design Principle :

Reduce short term memory load: The website offers features like recommendation system of popular job offers and also a feature of filter to shortlist the jobs

Interaction Style:

Menu selection: User can use the filters and select the best choice that suits them. They can enter salary requirement, field and location and get the results accordingly.
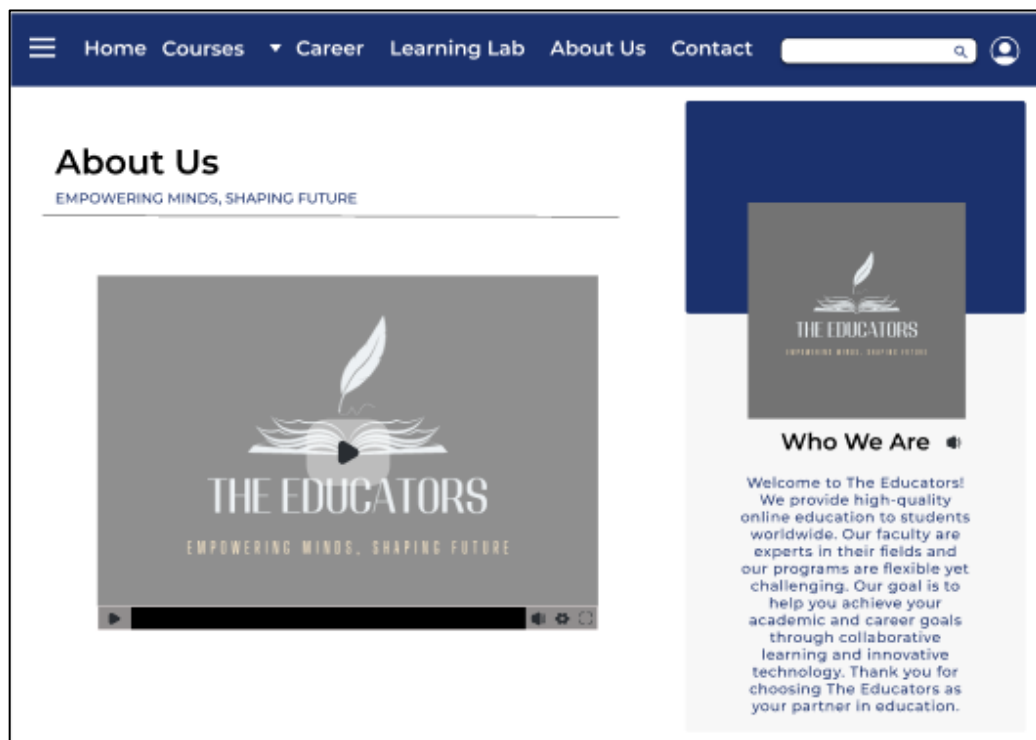
Hierarchical Task Analysis:

1.1 User selects from the filters

1.2 The system applies the filter

1.3 The user selects the desired job opportuinity.

13. Features : About us

Functionality: The page provides the basic information of the website and also it provides a video demonstration of the same.

Design Implementation:

Design Principle:

Cater for universal usability: The system covers the information of what the website does through text and video information. Thus, all kinds of users can know how it works.
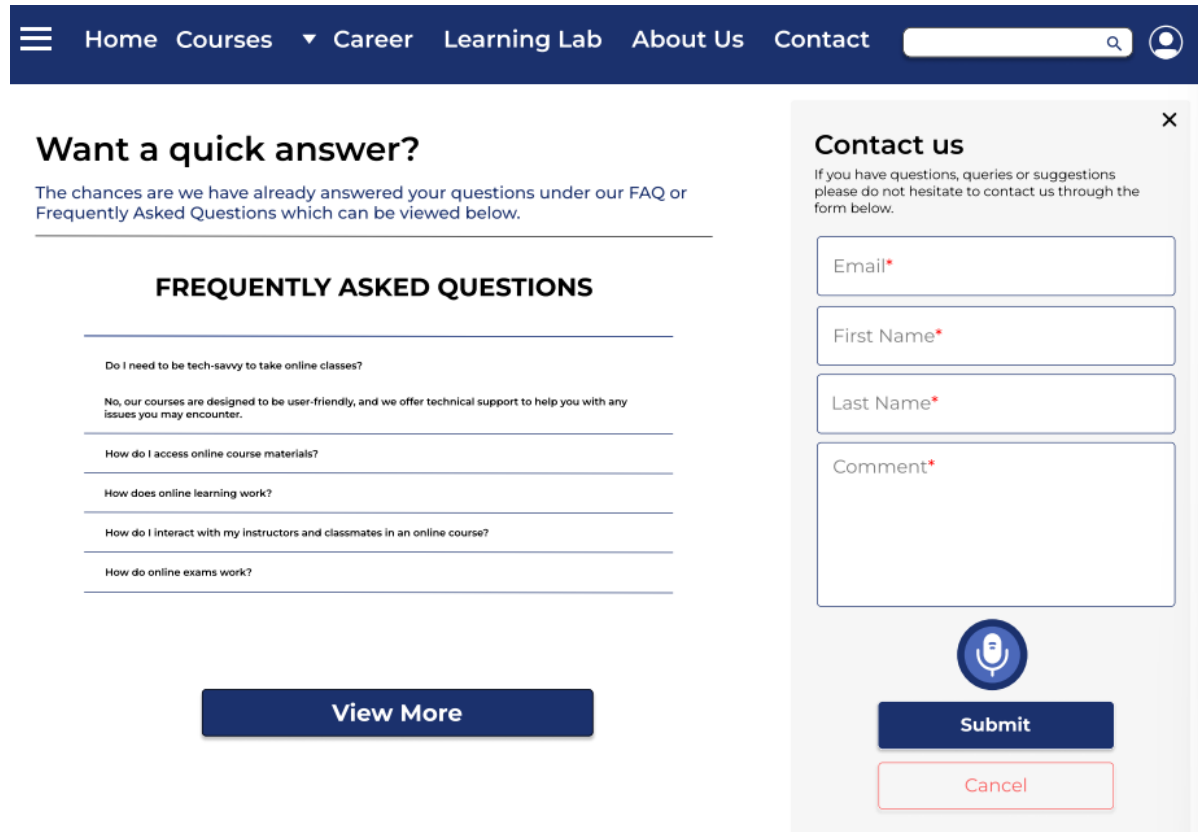
Hierarchical Task Analysis:

1.1 User selects About Us tab from the home page

1.2 The system directs them to the About us page

1.3 They read or see the video of the information provided.

14. Features: Contact Us

Functionality: The user can go through the frequently asked questions provided and also can enter relevant information to contact the owner and ask any questions.

Design Implementation:

Design Principles:

Offer informative feedback: If the user asks any question, the system responds to it and also if he/she searches for the question the system shows the answer for the same.

Interaction Style:

Form filling: The user can fill up the form by enter the asked details and the question he/she wants to ask and gets the suitable information for the same.

Hierarchical Task Analysis:

1.1 User selects contact Us tab from the home page

1.2 System directs to the contact us page.

1.3 they can ask the question they want.

Chapter 5

Difficulties Encountered and Resolved

Deciding the services provided by our website:

Our website: The Educators provide many services to the users like online courses, job opportunities, features for taking exams, and a chat box. Deciding which features to include and which to not was a big challenge. As there were four members in a group, there were multiple opinions coming up. We came up with the final services by short listing them, going through their pros and cons and selecting the best out of them.

Choosing the color palette:

The main challenge for us was choosing a perfect color palette. First, we continued with the basic blue and white color. We tried different colors but as it was an educational website the task was to be more professional and less funky. At the end, we thought that the blue color was looking like a face book and Coursera page so we finalized a dark blue and a white color palette.

Working with Figma:

This was the first time we all were trying our hands in Figma. Though it is a simple drag drop designing software, some features like connecting the elements, inserting icons, providing transitions were new for us. We learned it through some You tube tutorials and continued with the project. Another glitch by figma was while taking the video, sometimes it was not going as per the connections assigned and it starts buffering in between. These were some challenges with the software we worked with, but we are happy to learn it.

Deciding the flow of pages:

As taught in class, the user interface must be such that the user does not get confused. The system must provide a basic learnability to the users. We were confused about how we can make our website easy to go to. We asked our friends by showing them the methods of the flow of actions and asked them which one they found to be most learnable. This is how we came up with the final design and connections.

Chapter 6

Real Life Implementation Perspectives

Challenge faced while implementing the project in real life:

Scalability: Scalability means how easily a system can handle more work when needed. For example, on a website, scalability refers to how well the hardware can handle more users, how well the database can handle more questions, and how well the operating system works on different types of hardware. But if the system scales too quickly, the hardware like servers may need to be replaced with newer ones to keep up with the increasing number of users. To make sure users have a good experience and the platform can handle more traffic, changes need to be made to the application code and hardware resources regularly. In the future, cloud services could be used to make the platform even bigger.

Security: When launching an application on a large scale, there are various considerations to ensure smooth operation. Security is a top priority to prevent data leaks and hacking attempts. DevOps and server interfaces also require careful attention to ensure an efficient workflow and effective communication between the application and server. These aspects need to be carefully developed and maintained to minimize issues that may arise during usage. Therefore, it's important to prioritize these elements and regularly update them to keep up with changes and ensure the platform's continued success.

Good factors:

Getting Certificates: If this website is implemented in real life, the people using it will surely get certificates for the courses they have done. This is a common feature that many learning platforms offer and our website would also like to stick to that thing. Also if one opts for a job through our website he/she will get some letter of recommendation and other services with it.

Recommendation services: As shown in the user interface design, we would like to implement the recommendation systems on our website through the concepts of machine learning. It will be helpful to users to choose the course of their choice. It will also be helpful for the people finding jobs. One does not have to search every time he/she enters the website. This ensures a easy learnability to the users.

Chapter 7

References

www.figma.com

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https://www.khanacademy.org/

https://www.coursera.org/