



**Ahmedabad  
University**

**CSE519: Human Computer Interaction**

**Project Report 4**

**Section 2**

**Submitted to faculty: Prof. Anurag Lakhiani**

**Date of Submission: 02<sup>nd</sup> April '23**

**Student Details (Group-3)**

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**2022-2023 (Winter Semester)**

## 1. Staff Directory Page

### Functionality:


Users can use the staff directory website to look for staff members using various criteria, including name, position, course code, etc. Additionally, users can select employees based on particular criteria like area and course code.


### Implementation:


 Home Courses Career Learning Lab  About Us Contact  


### Staff List


showing 1 . 24 of 88 constituents





**Ros Allen**  
Title: Professor  
Departments: Mechanical Eng.  
Course Code: MEC100  
Email: 





**Amy Allen**  
Title: Asst. Professor  
Departments: Chemical Eng.  
Course Code: CHY101  
Email: 





**Keith Ava**  
Title: Head of Department  
Departments: Computer Sci.  
Course Code: CSE696  
Email: 




**Sam Arthur**  
Title: Professor  
Departments: BBA  
Course Code: MKT100  
Email: 




**Robert Rose**  
Title: Head of Department  
Departments: Psychology  
Course Code: PSY543  
Email: 




**Sophie James**  
Title: Asst. Professor  
Departments: Computer Sci.  
Course Code: CSE690  
Email: 

### Staff Directory



- ✓ Enter Keyword
- ✓ Search staff by name, department, course code
- ✓ Be clear and precise



### Design Principle:

Reduce Short-Term Memory burden: Including dropdown choices lessen the user's cognitive load.

### Interaction Style:

Combination of Direct Manipulation and Form Fill-in: Users have the option of immediately entering their search criteria into the search form or using the form to filter staff members based on particular criteria like department and course code.

### Hierarchical Task Analysis:

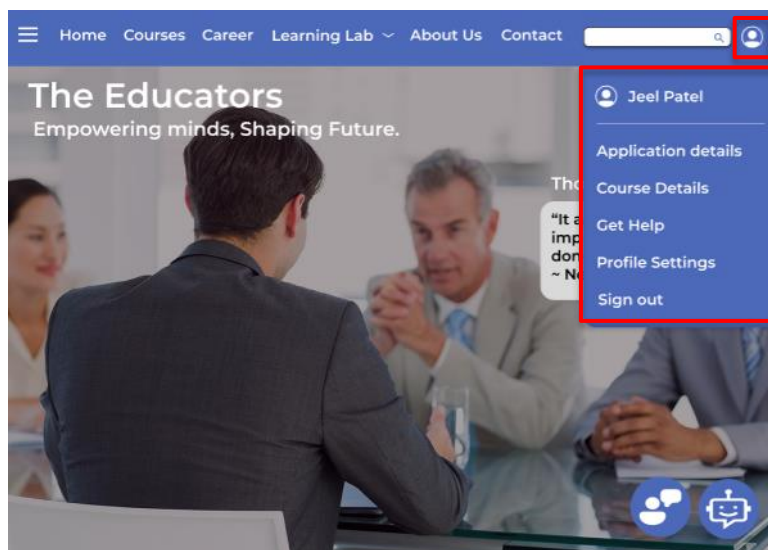
- 1.1 Find a staff person by filling in the appropriate terms in the search box.
- 1.2 From the dropdown option, choose a department.
- 1.3 From the drop-down option, choose a course code.
- 1.4 Press the search icon.
- 1.5 View the results of the limited search.

## 2. User Profile

### Functionality:

Users by clicking on the profile option can go through various options such as application details, course details, going to the help desk or editing their profile. Below are the pages that show the action when users click on either Course details or Profile Settings.

### Implementation:



After clicking on the profile symbol, we can see the following options in the drop down list.

**After clicking on Profile settings from the drop down list:**

The screenshot shows a web application's 'Edit Profile' page. At the top is a blue navigation bar with links: Home, Courses, Career, Learning Lab (with a dropdown arrow), About Us, and Contact. A search bar and a user profile icon are on the right. The main heading is 'Edit Profile'. Below it, the 'Personal Information' section is highlighted with a red bracket. This section includes input fields for 'First Name' (Jeel), 'Last Name' (Patel), 'Email Address' (jeelpatel21@yahoo.com), 'Location' (Ahmedabad, Gujarat, India), and a 'Bio' text area. To the left of these fields is a blue sidebar containing a profile picture of a woman, the name 'Jeel Patel', and three menu items: 'Change Password', 'Personal Information' (which is selected), and 'Educational Information'. A red arrow points from a box labeled 'Easy-reversal of actions' to the profile picture. Another red arrow points from a box labeled 'Form fill in' to the email address field. At the bottom right of the sidebar, there are two circular icons: one with two people and one with a speech bubble.

### **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.

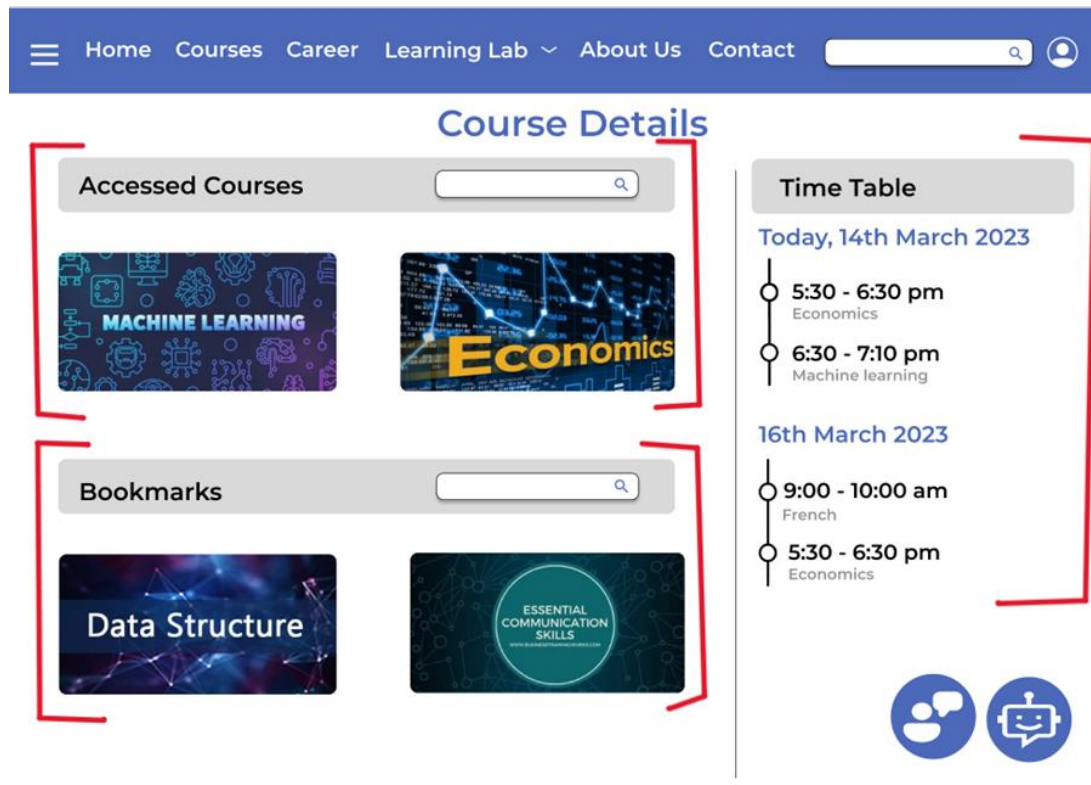
### **Interaction Style:**

**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

**After clicking on Course Details from the drop down list:**



### **Design Principle:**

Reduce short term memory load: System keeps the account of accessed courses, bookmarks and even the lecture schedule of the user. Hence, the user does not have to remember every single detail.

### **Universal Usability:**

Diverse Cognitive and Perceptual Abilities: The people with judging type personality often likes to make careful plans and seek to carry out their plans. Time table gives the option for the same.

### **Hierarchical Task Analysis:**

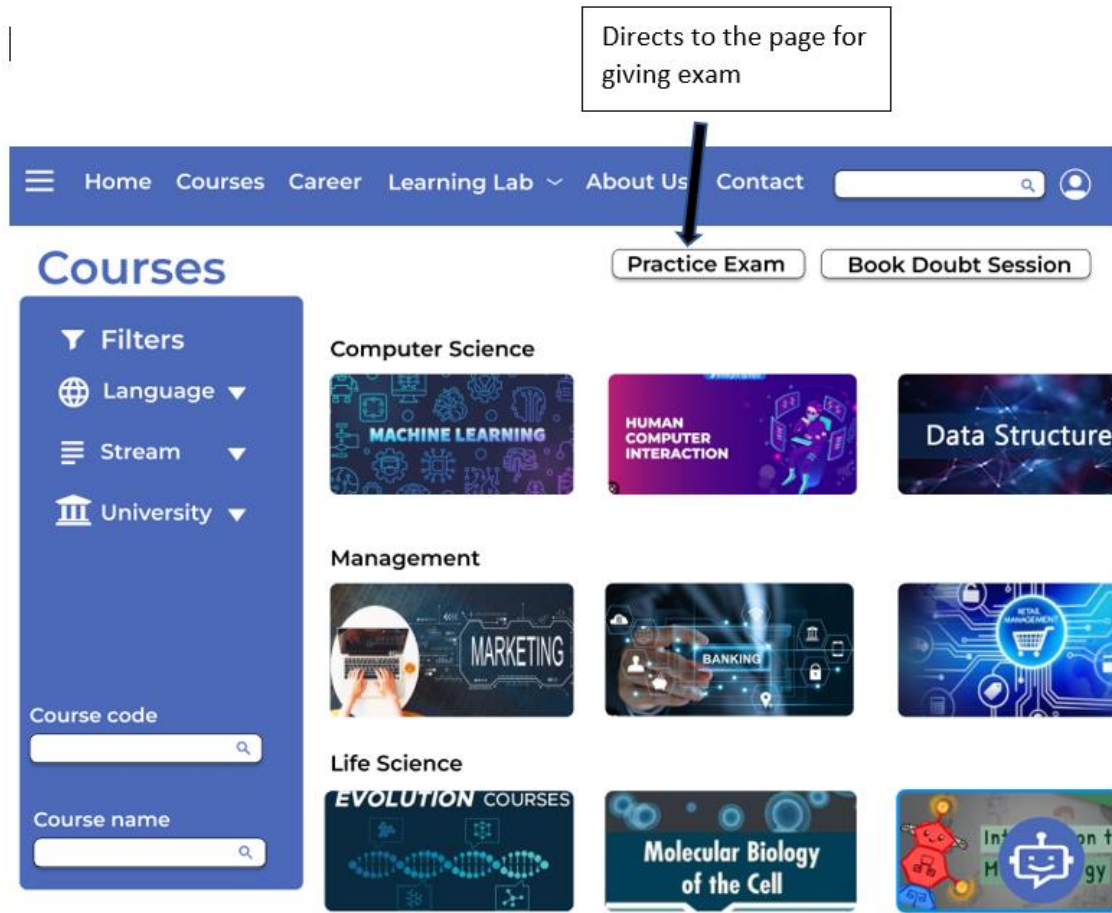
- 1.1 User clicks on the profile option.
- 1.2 The system will show a drop down list.
- 1.3 The user chooses to go on course details.
- 1.4 The system opens the course details page.
- 1.5 User checks for his upcoming lecture.

### 3. Practice Test

#### 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.

#### Implementation:



### **Design Principle:**

Offer Informative feedback: The green symbol for attempted and red 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.

## 4. 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 price 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.

### Implementation:

The screenshot displays a course page for 'Human Computer Interaction'. The navigation bar at the top includes links for Home, Courses, Career, Learning Lab, About Us, and Contact, along with a search bar and a user profile icon. The course breadcrumb is 'Course > Computer Science > Human Computer Interaction'. The course title is 'Human Computer Interaction', followed by a description: 'Unlock your potential with our interactive and user-friendly course. Experience an enhanced learning journey through our carefully designed human-computer interaction. Buy now and excel in your studies!'. The course is by 'Anurag Lakhani' and has '10 total hours • 36 lectures • Intermediate' level. A box titled 'Topics covered' lists five items, all marked with a checkmark: 'Understand Interaction Design', 'Understand Usability Goals', 'Understand Design Principle', 'Understand Interaction Design', and 'Understand Type of Interaction'. On the right, a promotional banner for 'HUMAN COMPUTER INTERACTION' features an illustration of a person with a laptop. Below the banner, it says 'Get this course, plus 8000+ of our top-rated courses, to increase intellectual ability.' The price is shown as '\$ 12' with a crossed-out '\$ 50' and '76% off'. At the bottom of the banner, there is a blue 'Buy Now' button and a heart icon, both highlighted with red rectangles.

Course > Computer Science > Human Computer Interaction

### Human Computer Interaction

Unlock your potential with our interactive and user-friendly course. Experience an enhanced learning journey through our carefully designed human-computer interaction. Buy now and excel in your studies!

By Anurag Lakhani

10 total hours • 36 lectures • Intermediate

#### Topics covered

- ✓ Understand Interaction Design
- ✓ Understand Usability Goals
- ✓ Understand Design Principle
- ✓ Understand Interaction Design
- ✓ Understand Type of Interaction

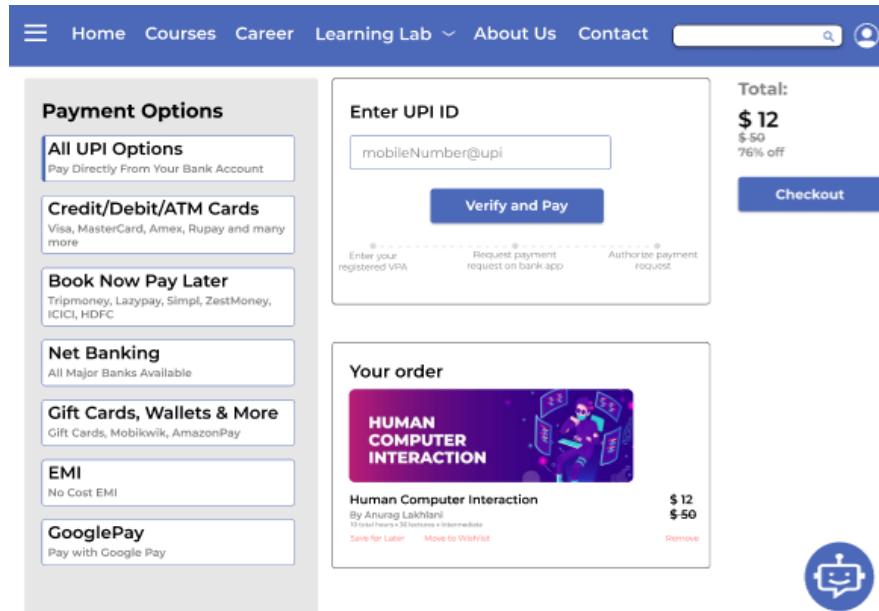
**HUMAN COMPUTER INTERACTION**

Get this course, plus 8000+ of our top-rated courses, to increase intellectual ability.

**\$ 12** ~~\$ 50~~ 76% off

**Buy Now**





### 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.

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

Feature	Figma	Adobe XD	Canva
<b>Collaboration</b>	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
<b>Design Components</b>	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
<b>Prototyping</b>	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
<b>Pricing</b>	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

## Description of 4 features of our tool in detail.

Figma is a popular design tool that is known for its collaborative features, design components, prototyping capabilities, and affordable pricing plans. Let's dive into each of these features in more detail.

- A. 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.
- B. Design Components:** 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.
- C. 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.
- D. 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.

**Link to Design:**

[https://www.figma.com/file/8fEgh7akvCksvLwSrl7v4Q/The-Educators\\_HCI?node-id=0%3A1&t=BMtA7bzlqgygPjA0-1](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](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/1CFDm2yHLOMe3teXvhUWzhblP7Tlpiytm/view?usp=share\\_link](https://drive.google.com/file/d/1CFDm2yHLOMe3teXvhUWzhblP7Tlpiytm/view?usp=share_link)