

IT351 HUMAN COMPUTER INTERACTION

Assignment-4

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Problem: Design and implement a web-based user interface for CONVERTOR application which is a composite of many converters like distance converter, temperature converter, currency converter etc. Your application should include three or more converters and design should incorporate the UI principles.

HCI Principles and Guidelines used:

- Users can perform the same tasks in the usual way.
- Wide range of the user-design process considered for all types of users.
- Control is given to the user.
- Proper error prevention methods have been used.
- Application is Flexible and efficient to use.
- Relevancy, simplicity, minimum number of labels and uncluttered graphics are used.
- Users can easily recognize options in the system rather than recall them.
- User control and freedom.
- Support of undo and redo operations.
- Overall, the interface is very simple and easy to use.

Screenshots of the Web App:

Currency Converter:

The screenshot shows a web browser window with the address bar displaying "pharma/IT351-HCI-Assignment-and-Project/Assignment-4/Unit-Converter-Code/index.html". The page title is "UNIT CONVERTER". On the left, a blue sidebar contains icons and labels for "Area", "Bits/Bytes", "Currency", and "Energy". The "Currency" option is selected. In the center, there are two input fields: the first contains "111.2" and the second contains "JPY(Japanese Yen)". Below these, there are two more input fields: the first contains "1.0014052584008952" and the second contains "USD(United States Dollar)". At the bottom of the input fields are two buttons: a red "Clear" button and a green "Replace" button. On the right, a blue sidebar contains icons and labels for "Length", "Time", "Volume", and "Weight".

Length Converter:

The screenshot shows the same web browser window as the previous one, but the "Length" option in the left sidebar is selected. The central input fields now show "25.4" in the first field and "Millimetre" in the second field. The third input field shows "1" and the fourth shows "Inch". The "Clear" and "Replace" buttons remain at the bottom. The right sidebar remains unchanged, showing "Length", "Time", "Volume", and "Weight" options.

Time Converter:

Area

Bits/Bytes

Currency

Energy

60

1

Clear

Replace

Seconds

Minutes

Length

Time

Volume

Weight