

# **IT351 Assignment 4**

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Q. Design and implement a web based user interface for converter 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.

### Rendering the web application:

Download and unzip the “code.zip” file. Open “home.html”.

### Screenshots of the web application:

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**Change My Unit**

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Select a quantity which you wish to convert!

Time

Mass

Length

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Change My Unit, Submitted by Suyash Chintawar  
NITK, Surathkal 2022  
Server time : 18/01/2022 01:08:45

The first screen the user sees is the home page. Three types of converter have been implemented, namely the quantities, time, mass and length. The user can select any of these three converters.

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**Change My Unit**

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**MASS CONVERTER**

From:

Kilograms

To:

Kilograms

Convert

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Change My Unit, Submitted by Suyash Chintawar  
NITK, Surathkal 2022  
Server time : 18/01/2022 01:10:20

When the user clicks on one of the quantities, the page is redirected to the corresponding converter. Here, the user can select amongst 4 units of the quantity which he/she wishes to convert. A dropdown menu has been designed for selecting the units.

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**Change My Unit**

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**MASS CONVERTER**

From:

Kilograms

To:

Grams

Convert

Change My Unit, Submitted by Suyash Chintawar  
NITK, Surathkal 2022  
Server time : 18/01/2022 01:12:51

The user must enter the desired amount to be converted into the second unit and then press the “Convert” button. The result gets updated into the seconds unit’s text field.

The available units for each of the quantities are:

1) Time:

- Seconds
- Milliseconds
- Minutes
- Hours

2) Mass:

- Kilograms
- Grams
- Ounces
- Pounds

3) Length

- Meters
- Yards
- Foot
- Inches

**UI principles:**

In the above web application, Hick Hyman's law has been used to categorize the units of all quantities into a structured manner to better understand and choose among the units. A two level hierarchy has been used to represent the units.

Moreover, sufficient size of the buttons and dropdowns have been chosen to ease the choosing process for the user. Hence, Fitt's law has also been included in this application.

Other basic UI principles like simplicity, visibility, structure and contrast has been inculcated for a better user experience.

THANK YOU