**WEB TECHNOLOGY INDIVIDUAL REPORT**

**What did I learn ?**

* How to use more than one card in a row.
* How to use box-shadow in the inside part of a card, such that it would look like something is popping out off an existing card.
* How to add spin/flip effect on a card.

**My work:**

I divided the web page into many divisions. Most of the divisions have classes in them. The classes in the file would be:

* titlebar : It styles the heading “About Us ”.Upon hovering its font-size increases form 30px to 50px.
* card : It makes the card.
* card-inner : It displays box-shadow and rotateY effect upon hovering.
* container : It contains the written part of each card.
* row : It is made to contain the cards in one row.
* column : Each card acts as one column. Class card is under class column.
* end : This division is at the end of the page with the copyright logo and the group name in it.

There is only one id in this entire file namely col which gives the background-color of the body.

The titlebar and end simply specify the height, width, background-image,padding, and text-align,font-size and font-weight. The font-size increases upon hovering.

The card is made by specifying height,width,background-color, padding and text-align. It has two parts :-- image and another division containing class container. The container contains the details of the images as given in each of the cards.

There are 4 cards in a row. This is ensured by the classes row and column. There are two rows, each row has 4 columns. Within a class row there are 4 sub-classes columns. Each class column has a class card. The row is displayed as a table and the columns as table-cells.

The card has another division card-inner. When we hover on the card, card inner displays a box-shadow and rotates the card along Y axis by 360 degrees, creating a spin/flip effect.

**Challenges and problems faced and how I overcame it:**

* **FIRST** : I was not able to put 4 cards in one row. I took help from :

<https://stackoverflow.com/questions/36963489/materialize-display-cards-in-one-line>

* **SECOND** : I was not able to create the spin effect on the card that is achieved by rotateY() method of transform property. It occurs on div card-inner upon hovering on card.I was not able to achieve it despite taking help from the net. I was convinced that it was probably happening because of using display as table in the row division. It was finally achieved by adding perspective of 1000px on card and by setting position of card-inner as relative, setting transition as transform in 0.6s and transform style as preserve-3d. I took help from: <https://www.w3schools.com/howto/howto_css_flip_card.asp>
* **THIRD** : I could not add space between two divisions after I was able to correct the second problem. Previously, upon hovering I had added only the box-shadow effect. At that time, space between two divisions could be created using a class padding that had properties padding-top and padding-bottom set at 30px. But it stopped working as soon as the spin effect was implemented. I finally used <br> tag to achieve the required space.

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