**Day 1 Lab Assignments**

* Design the following sample home page using the following main layout for Desktop (and make sure that it’s completely **responsive**):
* You can use your old home page layout (In JS labs or html labs) instead of the following image if you like)
* Pay more attention for layout, not of the content.
* Make your page fully responsive (use viewport meta tag).
* **DON’T** use tables in you layout, use divs & spans (or new HTML 5 structural elements), with CSS instead.
* **Use flexbox instead of floating**.
* Try flex wrap properties, to make sure that the columns will appear below each other in the small size.
* Make your images, Videos responsive.
* **Don’t** use media queries, use the default action of flex box (The left bar its size will only decrease on its place).



* Use Media query and CSS breakpoints in your website layout on normal laptops and PCs, tablets and smart phones (as shown in the prev. image):
* You can use your old home page layout (In JS labs or html labs) instead of the following image if you like)
* Design the tablet view, and hide the left column on tablet size and make the middle part fill the width. (Use media queries on CSS file and breakpoints).
* When you hide the left column, make it appear as row (width 100%) above or below (as shown in above image for tablet view).
* Design the mobile view hide banner image and left column (Use media queries on CSS file and breakpoints).



* Use grid layout with your CV page design, and make sure that it’s completely responsive (use viewport meta tag):
* Change the middle content in the given image to be full-page width.
* Use 16 columns layout.
* Set box-sizing property.
* Use Viewport units with the font size for text in the header (Name), and max-width with the image.
* Use float property or flexbox.
* Use **flex** instead of float (**Bonus**).
* What are the differences between custom grid layout, and CSS display: grid?(**Bonus**).
* Use CSS grid, instead of Custom grid (**Bonus**).(https://www.w3schools.com/css/css\_grid.asp).
* Change the header image in tablet and mobile view (Use picture tag).



**Bonus Assignments:**

* What are the differences between custom grid layout, and CSS display: grid?

<https://www.w3schools.com/css/css_grid.asp>

* Use column-based design to design the following template:



* Redo the same design using “Mostly fluid” and “Off-canvas” RWD pattern, and try different RWD patterns generally.
* What’re CSS frameworks? Search for different frameworks and list their features, and differences between them?
* What’re CSS pre-processor? Search for different frameworks and list their features, and differences between them.
* What’s BEM? Explain using demo.
* What’s material design? Explain using demo.

**<Thank>YOU </Thank>**