2021-Front-End-Exam (1h 50min)

We will create a web page that contains a list of subjects (see images for different screen sizes).

- The number of subjects could change in the future. CSS/JavaScript should not change no matter how many subjects there are.
- Use mobile 1st design.
- Do **not** use flexbox nor grid for the bottom part (actions) for **any screen size**.
- Do **not** use absolute paths for files: e.g. c://blablabla/example.css
- Use relative paths for files: e.g. img/example.png
- Create an HTML with a title, a navigation, a list of subjects and some actions.
- Clicking on navigation items should move the screen to the related subject.
- Do **not** add JS event calls in the HTML:
 https://example.com/html/>
 html:
 html://example.com/html/>
 html://example.com/html/
 html/
 html/

Used colors:

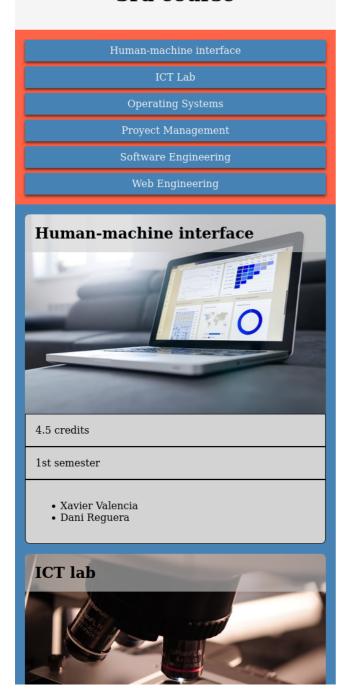
- whitesmoke
- lightgray
- steelblue
- tomato
- Create one on your own for the semi-transparent title in subjects.

Very Small layout (<567px)

- Do **not** use flexbox nor grid for this size.
- Most of the elements appear in new lines (see image below).
- In the navigation, there is a space between navigation items.
- Navigation items should occupy the entire width (see image below).
 - Add a shadow to navigation items, change it when the mouse hovers navigation items (e.g. make it smaller).
- Subject:
 - Subject title should appear over subject image. Title must have a semi transparent background.
 - Add a border radius to each subject (see image below).
 - Add a border to subject information (credits, semester & teachers).

Top Bottom

Computer Science degree, 3rd course





Small layout (>=567px)

- Main layout will have 2 columns now.
 - 1st column will occupy the width o its content, the rest of the space will be for the subjects.
- Subjects will have now credits and semester in 2 columns.
 - If any height is left for the subject, "teachers" should get the extra space.
- Bottom part:
 - Actions should have a padding.
 - Actions should have a margin between them.
 - Each action should occupy exactly 1/3 of the parent, taking into consideration the entire box-model.
 - **WARNING**: buttons have some styling by default (border, box-sizing...), so you have to override them or take them into consideration.

Top Bottom

Human-machine interface ICT Lab Operating Systems Proyect Management Software Engineering Web Engineering • Xavier Valencia • Dani Reguera

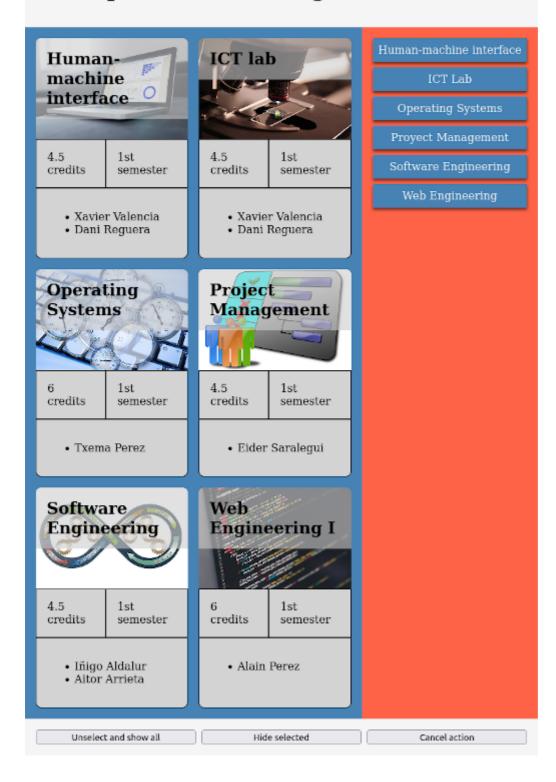


Medium layout (>=762px)

• The order of the columns in the main layout should change (navigation on the right, subjects on the left).

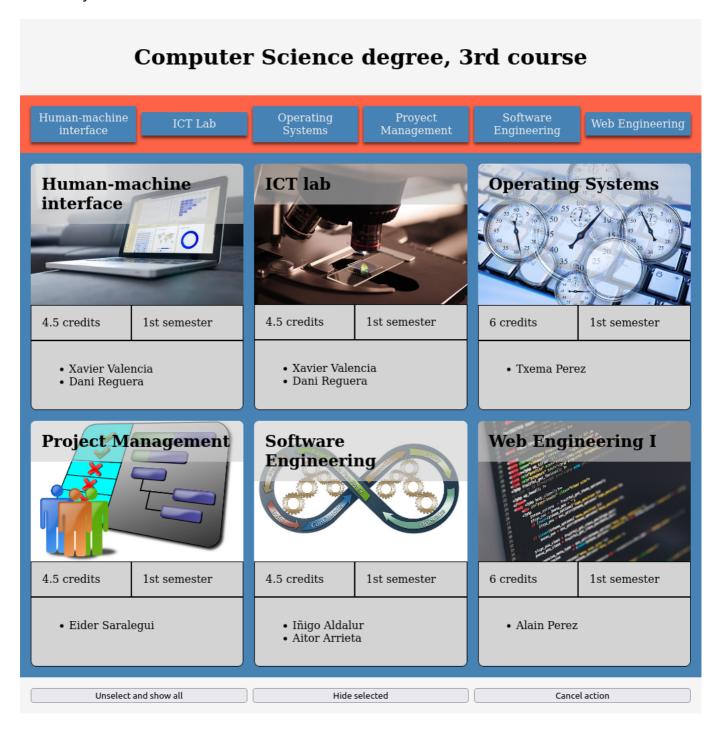
- So now, 2nd column will occupy whatever it needs (its content), the rest of the space will be for the subjects.
- Subjects will be distributed in 2 columns now.

Computer Science degree, 3rd course



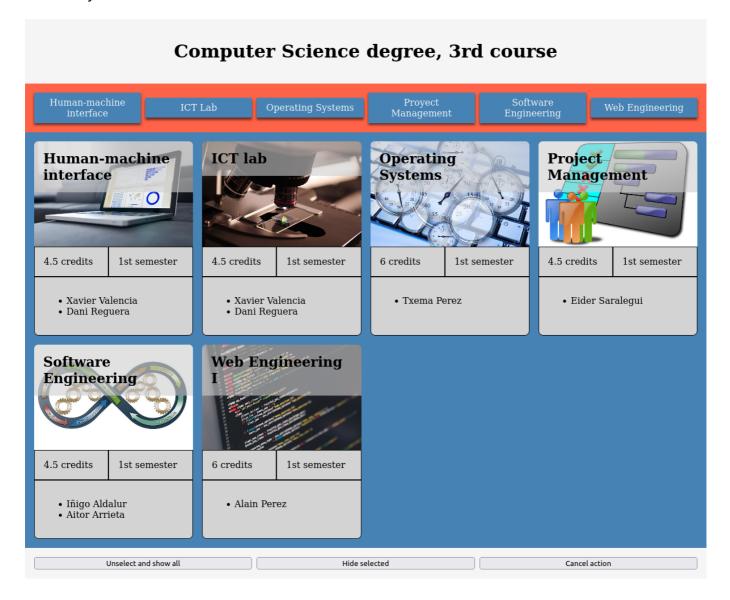
Large layout (>=1024px)

- Main layout will have just one columnn.
- Navigation will be horizontal.
 - All navigation items should occupy the same width.
- Subjects will be distributed in 3 columns.



Very large layout (>=1200px)

• Subjects will be distributed in 4 columns now.



JavaScript

- If you click a subject, it will be selected. If you click the subject again, it should be unselected.
 - Selected cards will have a red shadow.
- If you click on "Hide selected" button, all the selected subjects will disappear and will not occupy any space.
- If you click on "Unselect and show all", all the selected subjects will be unselected and all subjects will be visible.
- Action button will have a delay of 3s:
 - "Hide selected" and "Unselect and show all" will wait 3s until their action is executed.
- "Cancel action" button will instantaneously finish any action that is bein delayed.
 - If you click "Hide selected" or "Unselect and show all" buttons and in less than 3s you click
 "cancel action", elements won't be hidden not unselected nor shown.

Exam scores

- HTML (structure, meta, navigation items move you to subjects, semantic divs...). (1p)
- CSS (6.5p):
 - Navigation (1p)
 - Main layout (1.5p)
 - Subject list/matrix (1p)
 - Subject "card" (1.5p)
 - Actions exactly occupies 100% of the width without flex or grid (1.5p)
- JS (2.5p):
 - Select cards (0.5p)
 - Hide selected (0.5p)
 - Unselect and show all (0.5p)
 - 3s to execute actions (0.5p)
 - Cancel action (0.5p)