

CS2005: Lab 4

Bootstrap

A CSS framework

Objective

Learn how CSS frameworks make it far faster to code up frontend prototypes that are responsive across multiple form factors (desktop, tablet, mobile).

CSS frameworks also have many helper interface classes that make styling and design easier for prototyping.

Why Bootstrap?

- Build responsive websites quickly with Bootstraps 12-grid system.
- Lots of prebuilt CSS components make prototyping quick.
- Easily include Bootstrap icons. Comes with themes.

Adding Bootstrap (and JQuery)

Easiest is to import via CDN. Refer to Bootstrap docs [here](#).

You have to install the CSS, then JS packages. Depending on what Bootstrap functions you require, install the JS packages. Or install everything!

Or, if you want to modify the base JS package, install via npm.

The 12-grid system

Bootstrap uses a custom 12-grid system for positioning code.

```
<div class="container">
  <div class="row">
    <div class="col-md-6">
      <p>Content block 1...</p>
    </div>
    <div class="col-md-6">
      <p>Content block 2...</p>
    </div>
  </div>
</div>
```

Try out this [example](#).

Templates

Need template ideas and example code?

Take a look at the whole bunch of templates from the [website](#).
From simple forms to dashboards to one page layouts, there is
enough for you to choose from.

Assignment

Lab 4: responsive event form

Assignment Lab 4: Setup

To be completed by **19-10-2020**(Mon) 12pm

- On GitHub Pages, create a repo **CSC2005Lab4**
- This repo link will be of the format
`https://<username>.github.io/CSC2005Lab4/`
- Create a basic index.html file for your final solution.

Assignment Lab 4: Problem

- You have been asked by your boss to design a nice simple responsive web form for a workshop event registration.
- It needs to be mobile first, but best if it also looks nice for tablet / desktop.
- Some key fields for attendees to submit: Name, phone number, email address, address, profession.
- Hint: There may be a bootstrap template example you can easily use as a base to work with.

Assignment Lab 4: Extra Challenges

- Do some frontend validation for fields like emails, etc.
- Embed a google map and add mock event location details.

Assignment Lab 4: Screenshots

Event registration

Personal Details

First name ⓘ
Valid first name is required.

Last name ⓘ
Valid last name is required.

Email (Optional)
 ✓

Address
 ⓘ
Please enter your shipping address.


Address 2 (Optional)
 ✓

Country ⓘ
Please select a valid country.

Postal Code ⓘ
Zip code required.

Profession
 ⓘ
Please select valid profession.


Location Map



Singapore Institute of Technology
10 Dover Dr, Singapore 138683

Event registration

Location Map



Singapore Institute of Technology
10 Dover Dr, Singapore 138683

Personal Details

First name

Last name

Assignment Lab 4: Comments

- Grading will be on whether the form is responsive or not.
- You can use Bootstrap, or any other framework, or even write your own responsive design.
- This is a frontend challenge only, and there is no expectation for the interface to connect to any backend server. (i.e. POST calls to submit data to an API)

Questions?



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