



Unit 18 Homework Assignment:

🕒 ~11-14 hours | 👤 Individual | ✎ 4 Parts

Code a Responsive Bootstrap Portfolio

Coding from scratch using HTML & CSS is hard. To avoid doing the same work over and over again, developers created open-source solutions ([click here](#) to learn more about open-source software). Bootstrap is a framework for Front-End web development. It will dramatically speed up your ability to prototype in code. Bootstrap is ~8,400 lines of code, so it comes with its own unique challenges. In order to understand and use this code, you'll need to access the [documentation](#), experiment and use coding resources (Google & [Stackoverflow](#)) to complete your portfolio website. Before you begin, be sure to read through this document in its entirety.

Scenario: For the next two weeks, you will iterate on your design portfolio by building a responsive portfolio website using Bootstrap. This week, you will create a responsive design for your portfolio page and code the layout using Bootstrap's HTML & CSS UI Components.

WEEK 18	 Bootstrap 4 - Portfolio
WEEK 19	 Bootstrap 4 + JS/JQuery - Portfolio Part 2

Week 18: Bootstrap Responsive Portfolio

User Story: As a UI Designer/FE Developer, you will design and code a Bootstrap website to understand and test a responsive website. This Bootstrap website will showcase the case studies you have been working on throughout the UX/UI Boot Camp. Take this opportunity to show off all your hard work!

Requirements (11-14 hrs to complete)

This week, you will complete the following steps:

- ☐ Part 1: Wireframe a Responsive Portfolio Landing Page. (Desktop + Mobile) (2-4 hrs)

- ❑ Part 2: Create a GitHub repo, including HTML/CSS, content, folder structure. (1hr)
- ❑ Part 3: Code a Responsive Bootstrap webpage. (7-8 hrs)
- ❑ Part 4: Host the Webpages on GitHub Pages. (1 hr)

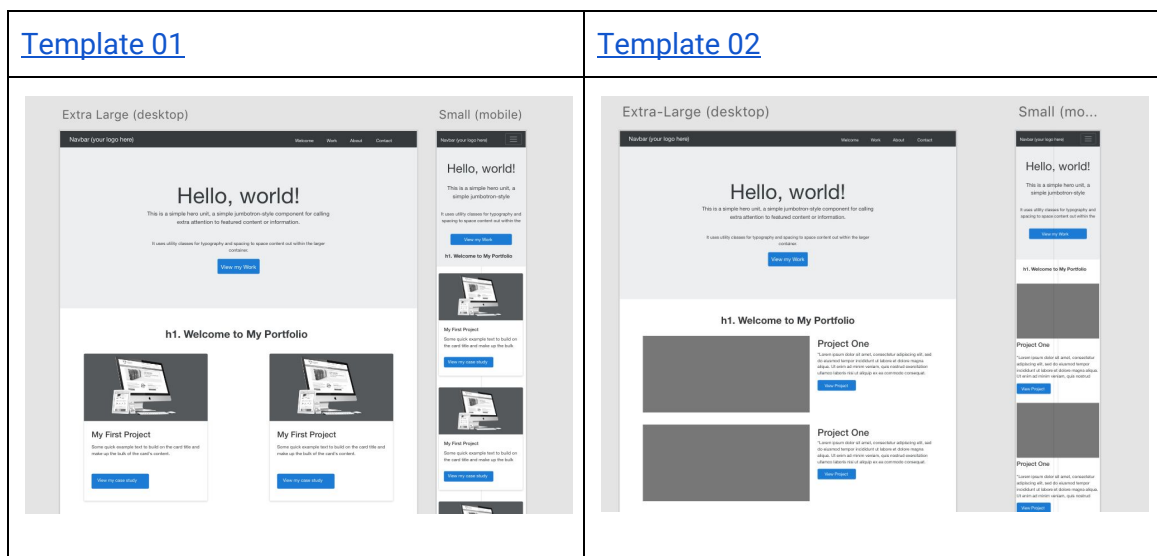
Instructions

Building webpages is the best way to become a better developer and showcase your excellent work from the design section of this course.

Part 1: Wireframe + Design a Portfolio (Mobile / Desktop)

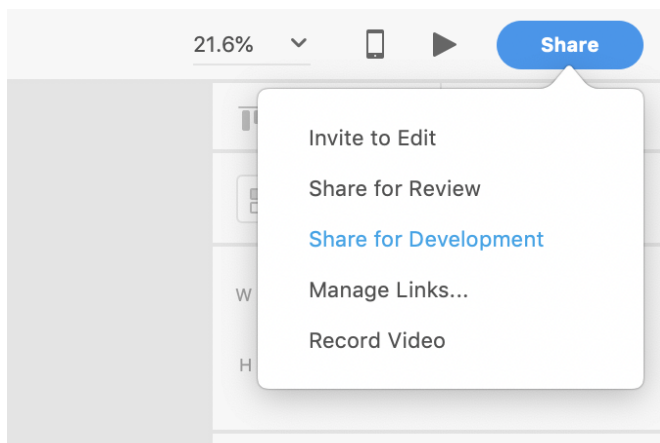
For this part of the assignment, you have two options. Option 1: you can use one of the pre-designed Bootstrap landing page templates. Option 2: you can design a landing page template using Bootstrap design components. When you are designing for yourself, you should seek inspiration in the form of peer work. Check out [bestfolios](#) and [awwwards](#).

1. Download one of the Bootstrap landing page templates:



2. OR Download the [Bootstrap 4 UI Kit](#).
3. Open XD and create a desktop and a mobile artboard.
 - i. Apply the 12-column Bootstrap Grid.
4. Homepage requirements. Your webpage should contain the following [Bootstrap Components](#).
 - i. Navigation Component: this is for your logo and links to your additional pages.
 - ii. Jumbotron: this is a landing page section to talk about you.

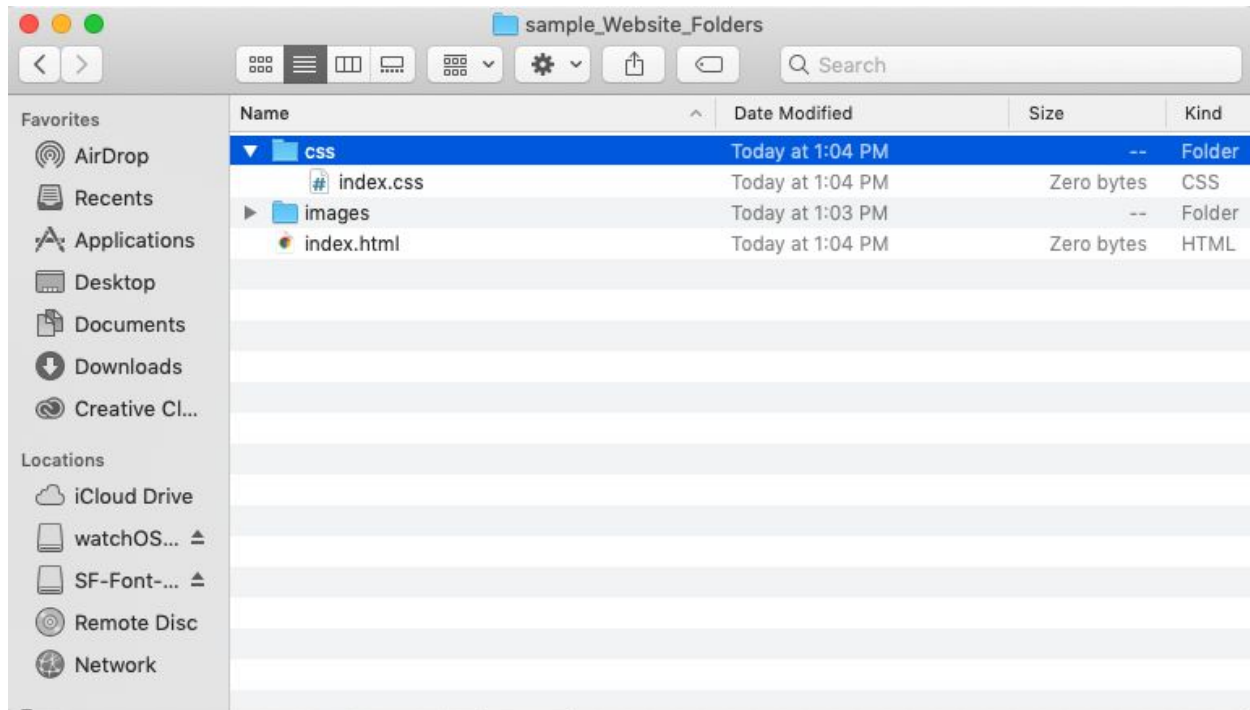
- iii. Bootstrap cards — highlighting case studies (3 to 6 case studies you have been working on throughout the UX/UI Boot Camp)
 - iv. A table listing UX/UI/FE Skills
 - v. Blockquote
 - vi. A footer
 - vii. Bonus - Tooltip/popovers to describe your skills
- Use Bootstrap's XD template: <https://xdresources.co/resources/bootstrap-4-ui>
 - Or Use XD Portfolio Templates:
 - i. [Template 01](#)
 - ii. [Template 02](#)
 - iii. [Bootstrap 4 UI kit](#)
5. Add design (color, images, etc.) and “real” content to your wireframe.
 6. Export .pngs of your design assets to your Images folder.
 7. Share your design for developers via XD to help you during HTML Coding.



Part 2: Create a Github Repository

Create a GitHub project repo by completing the following:

1. Create a new GitHub repo in GitHub named 18-Bootstrap-Portfolio.
2. Clone the blank repo to your local computer.
3. Create the proper folder structure to hold your website assets.
Review the folder structure in the following screenshot as an example of what it should look like:



4. Add an index.html file in your root folder and an index.css file located in your CSS folder, as shown in the above screenshot.
5. Push these pages up to your GitHub repo to sync up your local repo with your cloud repo.

Part 3: Code Responsive Bootstrap Website (HTML/CSS)

It is now time to put your portfolio wireframe design into production using Bootstrap.

1. Build the HTML structure of your website using Bootstrap 4 and custom CSS.
 - Link the Bootstrap CDN:
<https://getbootstrap.com/docs/4.3/getting-started/introduction/>
2. Use Bootstrap Components to code your portfolio webpage.
 - Review the [Bootstrap component documentation](#).
 - Use the Bootstrap grid system.
 - i. <https://getbootstrap.com/docs/4.3/layout/grid/>
 - Navigation (logo + nav elements).
 - i. <https://getbootstrap.com/docs/4.3/components/navbar/>
 - Jumbotron.
 - i. <https://getbootstrap.com/docs/4.3/components/jumbotron/>

- Bootstrap cards.
 - i. <https://getbootstrap.com/docs/4.3/components/card/>
 - A table listing UX/UI/FE Skills used in the case study.
 - A footer.
3. Fill your components with content (text, images).
 4. Style your content to match the designs you created in Part 1.
 - Add a custom CSS file.
 5. Connect your pages.

Part 4: Host a Bootstrap Responsive Website via GitHub Pages

Hosting your webpage online will allow you to share and receive feedback as you iterate and improve your portfolio over time.

1. Upload your finished webpage to GitHub using GitHub Desktop.
2. Publish your site on GitHub Pages.
3. Make sure you copy the URL!

Resources

- How Bootstrap 4 Grid Works:
<https://uxplanet.org/how-the-bootstrap-4-grid-works-a1b04703a3b7>
- Responsive Web Design - How to Create Media Queries:
<https://www.youtube.com/watch?v=5xzaGSYd7jM>
- Media Queries 101 by CSS Tricks: <https://css-tricks.com/css-media-queries/>
- Media Query Documentation:
https://www.w3schools.com/css/css_rwd_mediaqueries.asp

Tips

The following tips are general developer workflow tips to help you speed your development process when building a Bootstrap portfolio.

- Start by building the structure first. This means code and position all your containers and Bootstrap components before you style.
- Use the web inspector with the CSS outline property to play with your layout and get it positioned the way you want.

- Feel free to use any of the Bootstrap tricks you learned in class. Remember that researching how to do something is a normal part of a developer's workflow.

How to Submit Your Homework

Use Google Drive (G-drive) to turn in your homework assignment (make sure to double-check that your sharing permissions are set to "Anyone with the link can view").

Each student must submit a link to a Google Drive Folder containing the following:

- A G-drive folder containing your Desktop + Mobile wireframes + Design Compositions.
- A link to your hosted Github Pages.
- A link to your GitHub repo.