{ } FE Dev Homework

Unit 20 | Create a Case Study Webpage
Using Bootstrap 4

🕐 ~12.5 hours | 👤 Individual | ✏️ vsCode/Bootstrap 4

(Assignment Due 21.3)

Background

Throughout the UX/UI Boot Camp, you have created several case studies documenting your process, problem-solving skills, and ability to tell a story. For this homework, you'll convert the case study you designed during Unit 16.1 into a Bootstrap 4 webpage. This will showcase your design thinking abilities as you build the story of this webpage, just like your case study.

User story: As a UX professional, telling an effective story for your case study is important and can be the difference between getting hired for a new gig or being passed over for a different candidate. You already have experience telling a story using your research; you are now going to showcase your process on a different medium—the world wide web.

Objectives

Here's what your instructor wants to see that you're capable of:

❏ Designing a case study using Figma or Adobe XD

❏ Creating a GitHub repository (a new one)

❏ Coding a Bootstrap 4 case study webpage

❏ Creating a GitHub repo and updating it with your new case study webpage, publishing it to GitHub pages, and linking it to your HW 19 repository
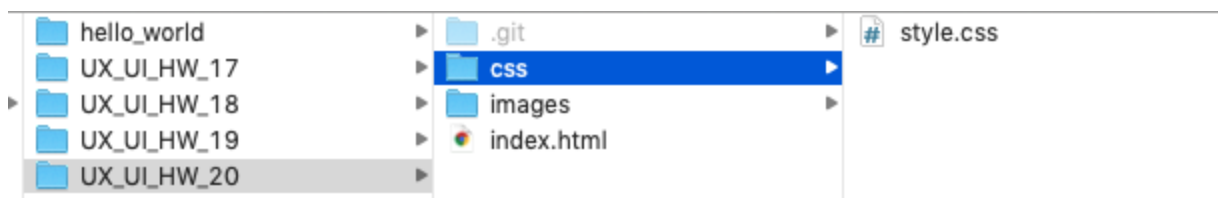
Instructions

Step 1: Design Your Bootstrap 4 Case Study Site Using Figma or Adobe XD (~4 hours)

You may use a content management system like Wix, Squarespace, or Behance to create your case study site, but you MUST complete this assignment for submission. Remember, you're allowed to have a maximum of two incomplete homework assignments at the end of the UX/UI Boot Camp.

1. Using Figma or Adobe XD and the case study assets you created during the 16.1-UX-Portfolio-Case-Study-Template activity, create a one-page design for your Bootstrap 4 case study.

2. Your Bootstrap 4 case study webpage must have the following six sections:

   a. A navigation menu containing the different phases of this project.
   b. A section introducing the business or product the case study was conducted on. This section should include the name of the business or product.
   c. The research you conducted to uncover the problem statement.
   d. The problem statement that you uncovered with your research.
   e. How you iterated on your work based on testing.
   f. The prototype that solved your initial problem statement.

3. When you're finished, save a jpg or png file of your design.

4. Create a Google Drive folder to contain the image for submission on: Bootcampspot.com.

Step 2: Create a New GitHub Repo for Homework 20 (~5 minutes)

1. Before we start coding, create a new repository on GitHub. Name it "UX_UI_HW_20."

2. Clone the blank repository to your desktop using GitHub Desktop.

3. Create the proper folder structure for your project inside your root folder (UX_UI_HW_20). This is a new project so you will need:

   a. An images folder to contain your case study images
   b. A CSS folder
      i. A style.css inside the css folder
   c. An index.html file
   d. Your folder structure should look like the following:

4.   Update your UX_UI_HW_20 repository with the new files.

5.   Publish your site on GitHub Pages. Click Settings on your repository's homepage.

6.   Scroll down to the GitHub Pages area in Settings and select the master branch.

7.   Check the URL after the page refreshes. Keep in mind you won't see anything initially, as this is a completely new project. You're ready to code!

Step 3: Code Your Bootstrap 4 Case Study Webpage Using Bootstrap 4 (~7 hours)

1.   Create the basic HTML for our Bootstrap 4 Case Study webpage.

Create a <!DOCTYPE html> tag.a <html> tag.

   a.   Create a <head> tag.
   b.   Create a <body> tag.

```
1    <!DOCTYPE html>
2    <html>
3    <head>
4      <title>UX/UI Homework 20</title>
5    </head>
6    <body>
7
8    </body>
9    </html>
10
```

2.   Add Bootstrap 4's link and script tags to the index.html of your project. They can be found at www.getbootstrap.com. Scroll down the page to see the section labeled "Bootstrap CDN."

3. Copy the CSS link tag and add in the head tag of your document to link to Bootstrap 4's CDN containing the Bootstrap 4 stylesheet.

   Note: Make sure you add the link tag to your own custom stylesheet below, in case you need to overwrite a Bootstrap 4 style.

```
3    <head>
4      <title>UX/UI Homework 20</title>
5      <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/
•      bootstrap.min.css" integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/
•      Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">
6      <link rel="stylesheet" href="css/index.css" type="text/css">
7    </head>
```

4. Copy and paste the script tags that contain Bootstrap 4 JavaScript files. Paste this between your closing body and HTML tags.

```
10   </body>
11   <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-
•    J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous"></script>
12   <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-
•    Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
13   <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"
•    integrity="sha384-wfSDF2E50Y2D1uUdj0O3uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl3Og8ifwB6"
•    crossorigin="anonymous"></script>
14   </html>
```

5. You are now ready to begin constructing your case study page using Bootstrap 4. How you build your case study page is up to you (and the design you created), but we will recommend different Bootstrap 4 components you can use for each section.

   Note: You must use at least two different Bootstrap 4 components and Bootstrap 4's col class system at least once during this project. Remember to use containers, container-fluids, and rows when constructing Bootstrap 4 elements using Bootstrap 4's col system.

6. During the design phase (Step 1) of this homework assignment, you designed six different sections. Below are suggestions on the different components you can use to construct the six sections you designed for your case study.

   a. The navigation for your case study webpage: Use Bootstrap 4's nav component or use Bootstrap 4's col system if your design needs a custom layout.
      ■ Create an HTML comment above this section's tags labeling this section and if you used a component or Bootstrap 4's col system.

   b. The introduction to the business or app: Use Bootstrap 4's jumbotron component or Bootstrap 4's col system if your design needs a custom layout.
      ■ Create an HTML comment above your section's tags labeling this section and if you used a component or Bootstrap 4's col system.

   c. The research section: Use Bootstrap 4's card, list group or collapse components. You can also use Bootstrap 4's col system to construct custom content.
      ■ Create an HTML comment above your section's tags labeling this section and if you used a component or Bootstrap 4's col system.

   d. The problem statement section: Use a Bootstrap 4 jumbotron, or construct your own content using Bootstrap 4's col system.
      ■ Create an HTML comment above your section's tags labeling this section and if you used a component or Bootstrap 4's col system.

   e. The iteration section: Use card, list group, collapse or media object components to showcase the different iterations of your work.
      ■ Create an HTML comment above your section's tags labeling this section and if you used a component or Bootstrap 4's col system.

   f. Lastly, the prototype: Use Bootstrap 4's col system to showcase the result of your work.
      ■ Create an HTML comment above your section tags labeling this section and if you used a component or Bootstrap 4's col system.

Step 4: Update Your GitHub Repo With Your Bootstrap 4 Case Study Webpage and Publish via GitHub Pages (~1 hour)

1. Upload your modified webpage to GitHub using GitHub Desktop.

2. Refresh your GitHub Pages URL to double-check that your files have been uploaded correctly. You published this repository in Step 2 of this homework.

3. Make sure you copy the URL. You'll need it to submit your homework via Bootcamp Spot. Also, you'll use the URL to link this case study to your portfolio page in Step 5.

Step 5: Link Your Case Study to Your Homework 19 and Update the Homework 19 Repo (~15 minutes)

1. Now that your case study webpage has been constructed, you need to link it to your Unit 19 Portfolio webpage.

2. Open the UX_UI_HW_19 folder you created last week in Visual Studio Code.

3. In the case study section, add an <a> tag to a button, image or card (depending on your design) that links your portfolio webpage to the case study webpage you created for this homework.

4. When you have linked your two webpages together, update the UX_UI_HW_19 repository with your <a> tag using GitHub Desktop.

5. Open the GitHub Pages URL for UX_UI_HW_19 and test your <a> tag to make sure it takes you to your case study webpage.

Employer Competitive Bonus: Alternate Case Study & Layout

Once you've completed this week's homework, repeat this process for a different case study that you have created during the UX/UI Boot Camp.

1. Using Bootstrap 4's col system, make your layout responsive for mobile by using the different breakpoints that come programmed into Bootstrap 4's col system.
2. Using Figma or Adobe XD, duplicate your case study webpage design and modify the assets for a different case study.

   Tip: Feel free to use the Bootstrap 4 case study webpage as a template for this case study. This will allow you to quickly build out your second case study without having to modify the code of the page.

3. If you have extra time, feel free to do a completely different layout in your design and case study webpage to really test your skills.

Tips

The following tips are general developer workflow tips to help speed up your development process when building a webpage:

- Google a lot! There are many nuances to front-end development, and you will undoubtedly encounter problems when practicing coding. Using Google to search for answers is a normal part of all web developers' workflow.

- Create an account at https://stackoverflow.com/. Stack Overflow is a community forum for developers. It is a great resource to help answer all of your developer questions.

Required Deliverables

Google Drive folder containing the following:

- The jpg or png you exported from your case study design

- A link to your hosted GitHub Pages showcasing your Bootstrap 4 case study (UX_UI_HW_20)

- A link to your GitHub repo for UX_UI_HW_20

- A link to your hosted GitHub Pages repo for UX_UI_HW_19 that is now linked to UX_UI_HW_20

Submission

Here's what to submit to Bootcamp Spot:

1. A link to your Google Drive folder.
   a. Be sure to set your sharing permissions to: "Anyone with the link can view."