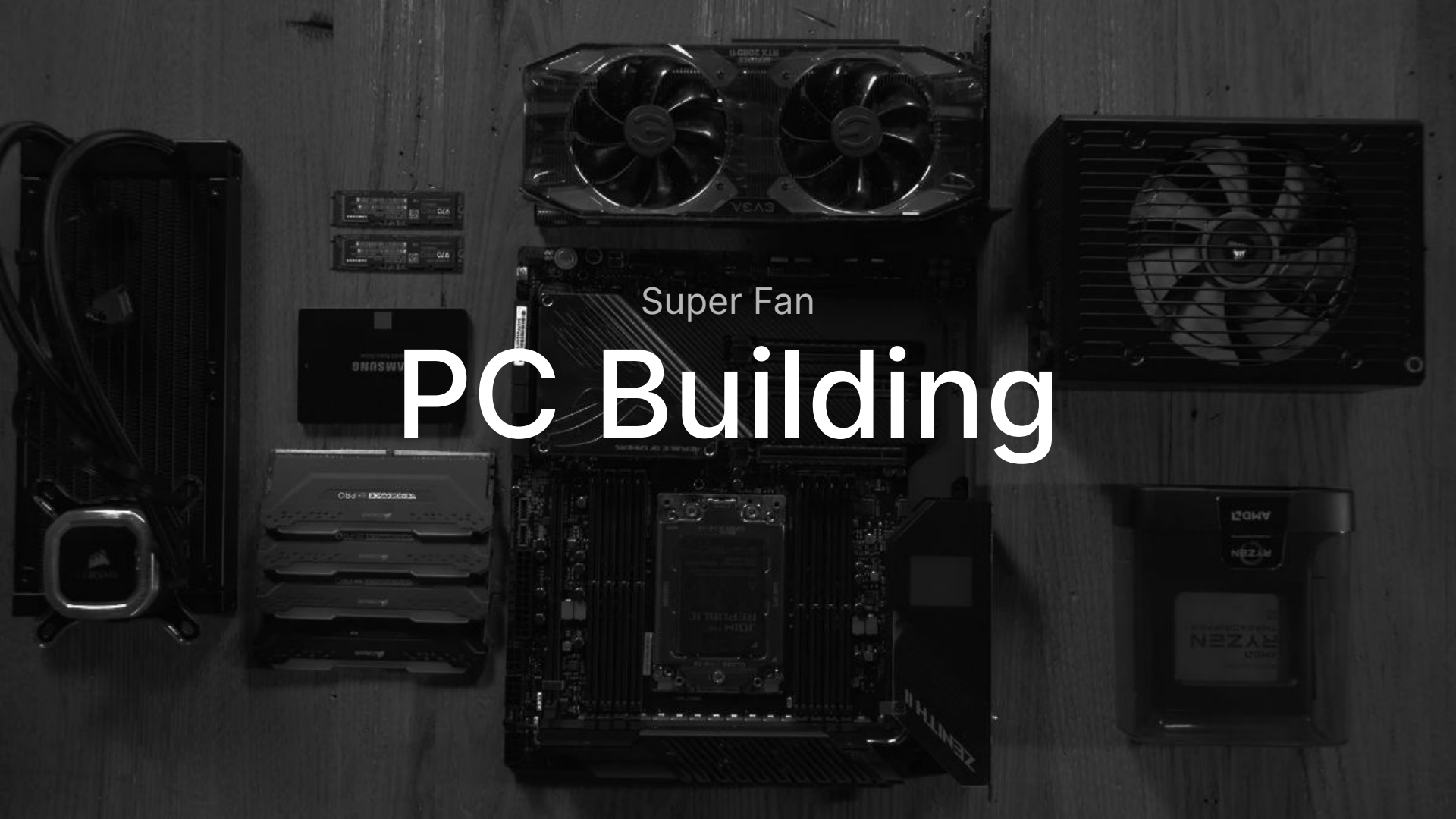


Computer Science POL

Justin Tran



Super Fan

PC Building

What is this?

```
function loadPrompt(part) {
  AvailableBudget += PartList.prices[part];
  PartList.prices[part] = 0;
  PromptTitle.textContent = part.charAt(0).toUpperCase() + part.slice(1);
  for (let individualPart in PartDatabase[part]) {
    let Part = PartDatabase[part][individualPart];

    var NewPart = partTemplate.cloneNode(true);
    NewPart.setAttribute("class", "individual-part primary");
    PromptPartContainer.appendChild(NewPart);

    NewPart.querySelector(".part-info h1").textContent = Part.name;
    NewPart.querySelector(".part-info p").textContent = Part.desc;
    NewPart.querySelector(".part-image").src = Part.path;
    NewPart.querySelector(".part-select").textContent = "$" + Part.price;

    const priceBtn = NewPart.querySelector(".part-select");
    priceBtn.addEventListener("click", () => {
      selectPart(part, Part);
    });

    // Loop limits
    for (let limitId in Part.limits) {
      var limit = Part.limits[limitId];
      var CategoryLimit = NewPart.querySelector(
        ".part-individual-category"
      ).cloneNode(true);
      CategoryLimit.querySelector("h1").textContent = limit.category;
      CategoryLimit.querySelector("p").textContent = limit.limit;
      CategoryLimit.classList.remove("hidden");
      NewPart.querySelector(".part-s-categories").appendChild(CategoryLimit);

      var MobileCategory = NewPart.querySelector(
        ".part-mobile-individual-category"
      ).cloneNode(true);
      MobileCategory.querySelector("h1").textContent = limit.category;
      MobileCategory.querySelector("p").textContent = limit.limit;
      MobileCategory.classList.remove("hidden");

      NewPart.querySelector(".part-row2 .part-s-categories").appendChild(
        MobileCategory
      );

      checkCompatibility(limit, NewPart);
    }

    if (Part.price > AvailableBudget) {
      NewPart.querySelector(".incompatible-overlay").classList.remove("hidden");
      NewPart.querySelector(".incompatible-overlay p").textContent =
        "Out of Budget";
      NewPart.querySelector(".part-select").disabled = true;
    }
  }
  PromptOverlay.classList.add("show");
  PromptContent.classList.remove("hidden");
  ResultsContent.classList.add("hidden");
  attachButtonSounds();
}
```

```
function loadPrompt(part) {
  AvailableBudget += PartList.prices[part];
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  for (let individualpart in PartDatabase[part]) {
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      NewPart.querySelector(".part-row2 .part-s-categories").appendChild(
        MobileCategory
      );

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    }

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        "Out of Budget";
      NewPart.querySelector(".part-select").disabled = true;
    }
  }

  PromptOverlay.classList.add("show");
  PromptContent.classList.remove("hidden");
  ResultsContent.classList.add("hidden");
  attachButtonSounds();
}
}
```

```
AvailableBudget += PartList.prices[part];
PromptTitle.textContent = part.charAt(0).toUpperCase() + part.slice(1);
```

Returns back the money if a part was selected and changes the title of the prompt

Case

Choose the part that you like and fits you.

Specifications

This is a loop

```

for (let individualpart in PartDatabase[part]) {
  let Part = PartDatabase[part][individualpart];

  var NewPart = partTemplate.cloneNode(true);
  NewPart.setAttribute("class", "individual-part primary");
  PromptPartContainer.appendChild(NewPart);

  NewPart.querySelector(".part-info h1").textContent = Part.name;
  NewPart.querySelector(".part-info p").textContent = Part.desc;
  NewPart.querySelector(".part-image").src = Part.path;
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  const priceBtn = NewPart.querySelector(".part-select");
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      ".part-individual-category"
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    MobileCategory.classList.remove("hidden");

    NewPart.querySelector(".part-row2 .part-s-categories").appendChild(
      MobileCategory
    );

    checkCompatibility(limit, NewPart);
  }

  if (Part.price > AvailableBudget) {
    NewPart.querySelector(".incompatible-overlay").classList.remove("hidden");
    NewPart.querySelector(".incompatible-overlay p").textContent =
      "Out of Budget";
    NewPart.querySelector(".part-select").disabled = true;
  }
}

```

This selects the current individual part being looped through in the part database

This creates a clone of the template and attaches it to the prompt

Sets the information for each part

```

{
  "name": "Montech XR",
  "desc": "Mid-Tower, Steel Frame, Tempered Glass Side Panels",
  "price": 79.99,
  "path": "images/parts/cases/Montech_XR.png",
  "limits": {

```

Detects when the buy button is pressed and runs a function

Not all parts are compatible with each other!

Looping through limits this time

Creates clone of limit

Sets category and limit

Makes it visible and adds it to the category div

Runs a compatibility function which checks if part is within the build parameters

This is essentially the same process except it is for the mobile and tablet layout

Specifications

Motherboard Size	Socket
ATX	AM5

```
"limits": {  
  "1": {  
    "category": "Case Size",  
    "limit": "ATX"  
  },  
  "2": {  
    "category": "GPU Size Limit",  
    "limit": "420mm"  
  }  
}
```

```
for (let individualpart in PartDatabase[part]) {  
  let Part = PartDatabase[part][individualpart];  
  
  var NewPart = partTemplate.cloneNode(true);  
  NewPart.setAttribute("class", "individual-part primary");  
  PromptPartContainer.appendChild(NewPart);  
  
  NewPart.querySelector(".part-info h1").textContent = Part.name;  
  NewPart.querySelector(".part-info p").textContent = Part.desc;  
  NewPart.querySelector(".part-image").src = Part.path;  
  NewPart.querySelector(".part-select").textContent = "$" + Part.price;  
  
  const priceBtn = NewPart.querySelector(".part-select");  
  priceBtn.addEventListener("click", () => {  
    selectPart(part, Part);  
  });  
  
  // Loop limits  
  for (let limitId in Part.limits) {  
    var limit = Part.limits[limitId];  
    var CategoryLimit = NewPart.querySelector(  
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    ).cloneNode(true);  
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    CategoryLimit.querySelector("p").textContent = limit.limit;  
    CategoryLimit.classList.remove("hidden");  
    NewPart.querySelector(".part-s-categories").appendChild(CategoryLimit);  
  
    var MobileCategory = NewPart.querySelector(  
      ".part-mobile-individual-category"  
    ).cloneNode(true);  
  
    MobileCategory.querySelector("h1").textContent = limit.category;  
    MobileCategory.querySelector("p").textContent = limit.limit;  
    MobileCategory.classList.remove("hidden");  
  
    NewPart.querySelector(".part-row2 .part-s-categories").appendChild(  
      MobileCategory  
    );  
  
    checkCompatibility(limit, NewPart);  
  }  
  
  if (Part.price > AvailableBudget) {  
    NewPart.querySelector(".incompatible-overlay").classList.remove("hidden");  
    NewPart.querySelector(".incompatible-overlay p").textContent =  
      "Out of Budget";  
    NewPart.querySelector(".part-select").disabled = true;  
  }  
}
```


Conditional checks if part goes over budget

```
if (Part.price > AvailableBudget) {  
  NewPart.querySelector(".incompatible-overlay").classList.remove("hidden");  
  NewPart.querySelector(".incompatible-overlay p").textContent =  
    "Out of Budget";  
  NewPart.querySelector(".part-select").disabled = true;  
}
```

If it is, it will make the incompatible layer appear on top

Change the text inside the text to express the reason why

Disable the button so it can't be selected

```
PromptOverlay.classList.add("show");  
PromptContent.classList.remove("hidden");  
ResultsContent.classList.add("hidden");  
attachButtonSounds();
```

Makes the prompt overlay show up on the screen

Makes it so the prompt content itself is not hiding

Adds sounds to the buttons after they have been cloned

Hide the results content incase a user wants to make changes after seeing results of their build

Digital Portfolio

Justin Tran

[Home](#)

[Computer Science](#)

[About Me](#)



SuperFan Interactive Experience

The Challenge

Create an interactive, intuitive, and responsive front-end website that centered around a topic I am super passionate about.



Roles

Graphic Designer

User Interface Developer

User Experience Designer

Tools Used

JavaScript / CSS / HTML

CodeSandbox / GitHub Pages

Google Slides / Google Sheets

Brainstorm & Evaluate

Before making a decision about my topic I spent some time generating ideas and considering how they would meet the project requirements.

After quickly weighing the pros/cons of each option I made a decision.



Idea 1: Apple Products

Theme



Idea 2: PC Building

Theme



Idea 3: KPop Demon Hunters

Theme



Evaluate + Choose Your Idea

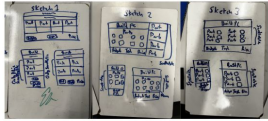
PC Building



Digital Portfolio

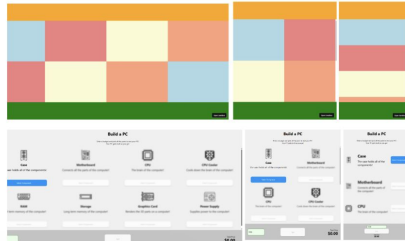
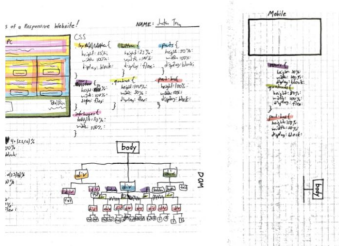
Responsive Design & Digital Mockup

After making multiple sketches considering possible layouts I consulted with my teacher and we chose a design. Before coding I wanted to make sure everything looked professional so I used Google Slides to make a mockup.



Plan & Incrementally Build

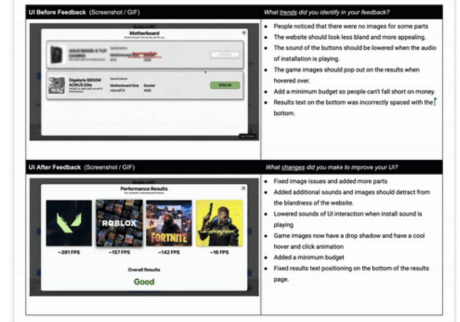
Before coding I sat down and carefully planned out my site considering the structure of the page and the relative measurements + display properties. After I had my plan I built-up my layout step-by-step.



User Experience (UX) Testing & User Interface (UI) Iteration

Once my first iteration was complete I conducted user testing with peers from my class. After hearing from 5 users I identified trends in my feedback and made improvements to my site to enhance the page's appearance, functionality, and intuitiveness.

	User Interface: How could the styling of elements be changed to make it more visually appealing, clear, and easier to understand? (color, layout, font, alignment, etc.)	User Experience: What elements of the user experience could be improved to make the page more intuitive and more fun/interesting? (on-screen actions, form, effects, etc.)
User 1 Name: Kieran Pearson	<ul style="list-style-type: none">• Kieran says that there are no images for some parts. He says that it would be better if they worked.• He also says that the text at the bottom is pretty small so it should be better.• Kieran wants to see a completed computer and a report of the game preview.	<ul style="list-style-type: none">• He says that it feels very interactive.• When the part sounds that it's being installed, he says that the audio of the buttons should be turned down so you can hear the parts being installed.• He also wants the games on the results page to be clickable.
User 2 Name: Richard Gault	<ul style="list-style-type: none">• Kieran wants some better graphics so that it doesn't look so bland because of the white background.• Make the text have some color and be less bland.• The website right now looks a bit bland so consider adding more elements.	<ul style="list-style-type: none">• Kieran wants more information on the results page for the computer.• He also says that there should be an animation on the total price when you buy something.• Make it so the budget has a minimum so that people don't be short on money when buying.
User 3 Name: John Viteri	<ul style="list-style-type: none">• John says that some images are missing and should be added.• He wants the total price to be moved over a bit so you can see the price of the build.• The button text should be moved a bit.	<ul style="list-style-type: none">• When you hover the image, the image should pop out on the results page.
User 4 Name: Desmond Sparks	<ul style="list-style-type: none">• Some of the images don't work like for some of the parts.• The bottom part of the results page should be a bit higher since it's a bit close to the bottom.	<ul style="list-style-type: none">• Desmond didn't really know that he needed to put in a budget before he started.
User 5 Name: Anthony Tapp	<ul style="list-style-type: none">• He likes that everything is well sized but said that the pictures need to be worked on.• He said that the background on the parts should be removed.• Make the website less bland by adding more color to it.	<ul style="list-style-type: none">• The budget should be more clear and there should be a minimum so people don't run out of money when buying things.



GitHub Repository

Here is a link to my final project!



Reflection

During this project I was able to practice my responsive design skills and also extended my knowledge of JavaScript. If I had more time I would explore the power of JavaScript to make the page more interactive and conduct a second round of UX Testing to improve my work.

Contact:
justin_tran@student.davincischools.org

Thank you

Questions?