

SE/ComS319 Construction of User Interfaces

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Midterm Project Proposal

Team 1 Project Proposal

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## **Introduction**

Our names are Andrew Luebbbers and Jack Kolker, and we make up Team 1 in ComS 319, design of user Interfaces. Through this class, we have learned many concepts regarding web development and various technologies used to produce such content. We will be creating a project that demonstrates our knowledge of HTML, CSS, JS, JSON, and other web development techniques.

The project will make use of outside technologies such as bootstrap, which enables easier UI design and implementation. Our project will be based on similar content to what has been completed in previous segments of the lecture exercises and individual assignments, with a focus on developing a more fully encapsulating catalog site.

## **Proposal Purpose**

This proposal will walk through the various goals of our project, details about the design and implementation of our project, what resources we will use to help build it out, as well as guiding the remaining work. Each of these topics will be discussed in further detail in the sections below.

The problem our team aims to solve is an easily maneuverable catalog site with high ease of use for the end-user, providing information about several distinct types of products. This will be accomplished using several different web pages, navigation menus, and cards containing information regarding each individual product.

## **Goals and Objectives**

Goals:

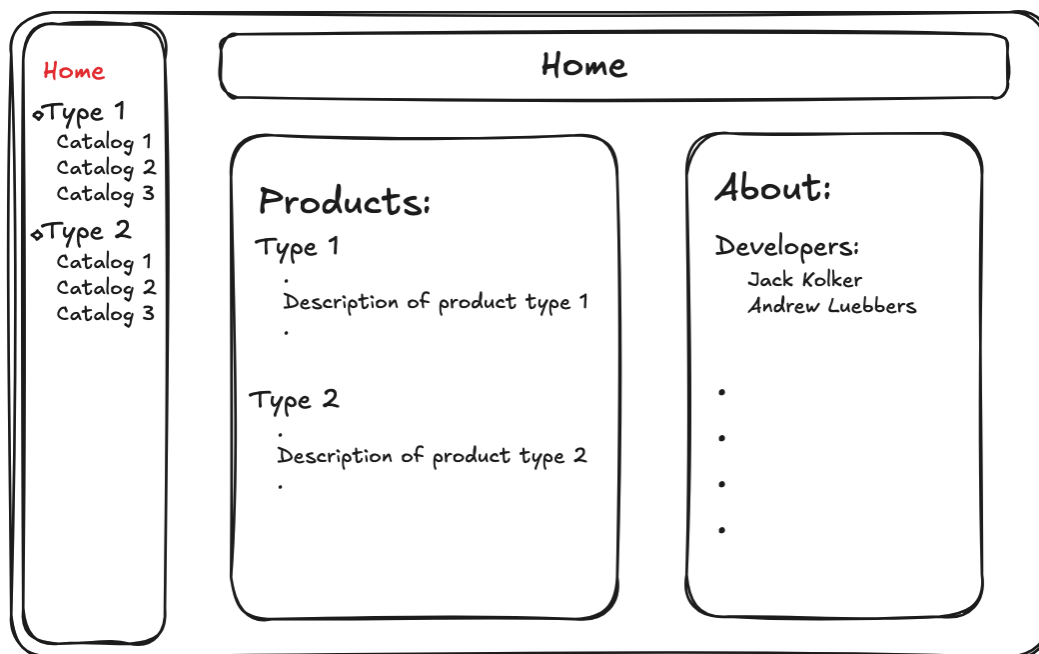
- Display information about several different types of products
- Convey information about individual products within each type
- Create an easy to navigate UI for the user to navigate between pages
- Incorporate UI elements to create a visually appealing site
- Make information about products easy to be changed and stored

Objectives:

- Build out multiple web pages containing a catalog experience for a certain product type on each page
- On each catalog page, create sections dedicated to an individual product, where an image and information about can be included.
- Include a bootstrap navigation pane that navigates the user between the different web pages.
- Utilize Bootstrap cards, panes, and other elements to create a visually appealing site.
- Store information about each product in JSON format, allowing the different catalog pages to reuse the code generating the catalog and allowing input data to be modular.

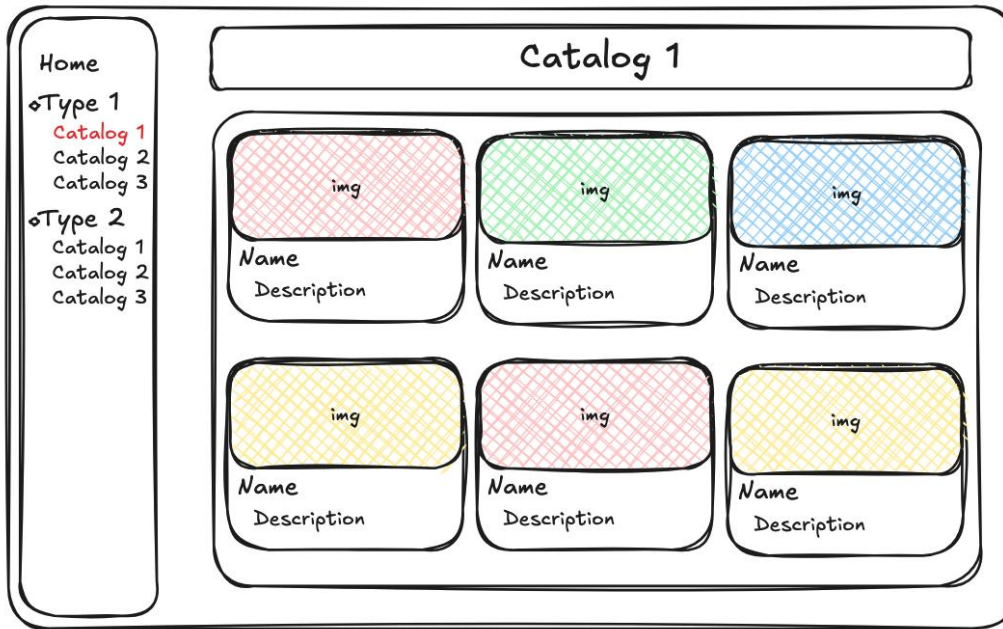
## Project

For our project, we will have a collection of various catalog pages for different product types. The site will feature a navigation pane on the side of the screen that allows the user to navigate between different pages on the website, between product types, and different catalogs. Within each of these pages, information will be provided about the product type or listing individual products in a catalog. The site will feature a home/landing page with information about what is on the site, and information about the site developers. An example Home page is shown below:

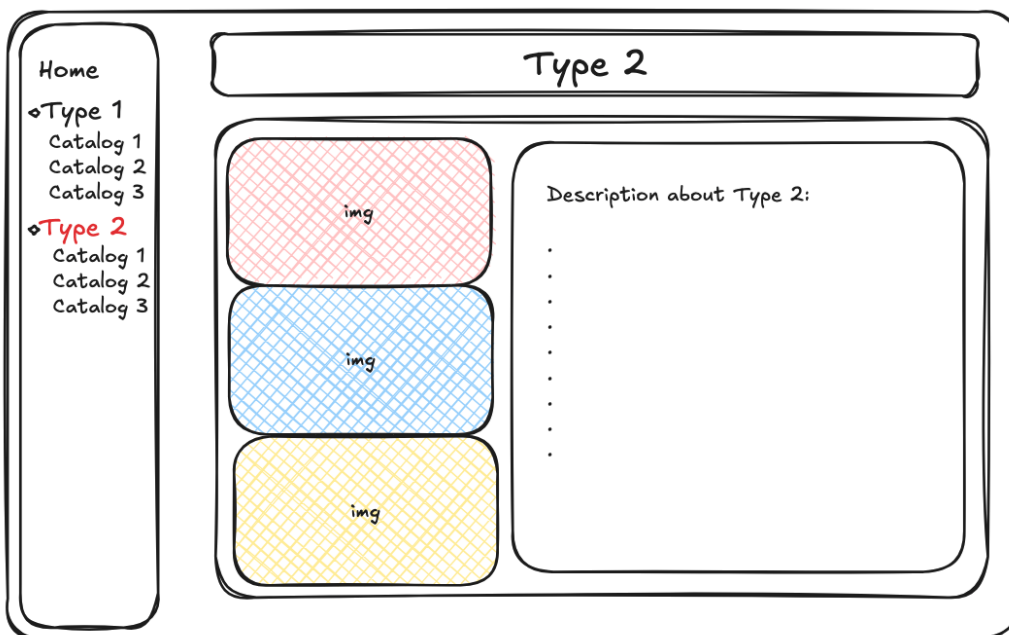


Home Page

As for the individual types and products, they have not yet been finalized. But for an example, the type could be 'car', with the catalog 1-3 being: 'trucks', 'sedans', 'SUVs'. Each catalog displays that type of car, and the Car type page displays basic information about the given product type. Shown below are two sketches of what the Catalog and Type pages could look like



Catalog Page



Type Page

With the navigation page always present on the screen for each page, with collapsible menus for the product types, we believe the user interface will be easy to navigate, as well as visually appealing to the client. This is the proposed project design, which is able to incorporate all the requirements for the midterm project.

## **Resources**

The following section will list out various technologies and resources we will be using to complete our midterm project

### **Software Tools:**

- Visual Studio Code:  
Code development program
- Web Browser (Google Chrome):  
Allows webpage to be accessed for testing

### **External Resources:**

- Bootstrap:  
Contains UI elements and layouts to create clean, and easy to navigate webpages
- Products, Images, and Information:  
External Products and Images will have to be sourced to be used in the catalog. Images can be found that are copyright-free, allowing us to use the information and images.

### **Developers:**

- 2 developers will be involved in the development
  - o Jack Kolker
  - o Andrew Luebbers
- We estimate that this project will take between 1-2 weeks to fully develop. This estimate is full-scope and goes from creation to submission, allowing for sufficient time for implementation, development, and testing.

### **Budget:**

The total cost of development for this project is **\$0** as all resources, including software and external libraries are free to use. The developers for this project are also unpaid, meaning that the total cost for development is \$0.

## **Future Work**

This project could be expanded to be used for the final project by implementing more features that turn the site from being a few catalogs, to a full consumer shopping experience. This could include adding information such as ratings, profiles, carts, storing information about user's cards and settings, among many other potential additions. Given that this midterm project is expandable for the final project, we feel confident in our decision to begin development.

## **Conclusion**

In this document we have outlined our goals, design, and resources needed for completion of our midterm project. We believe this project fully encapsulates the scope required for the assignment and is feasible to develop and implement by the imposed deadline.