Team Atlantis Business Card Generator

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Client

Adam Waring
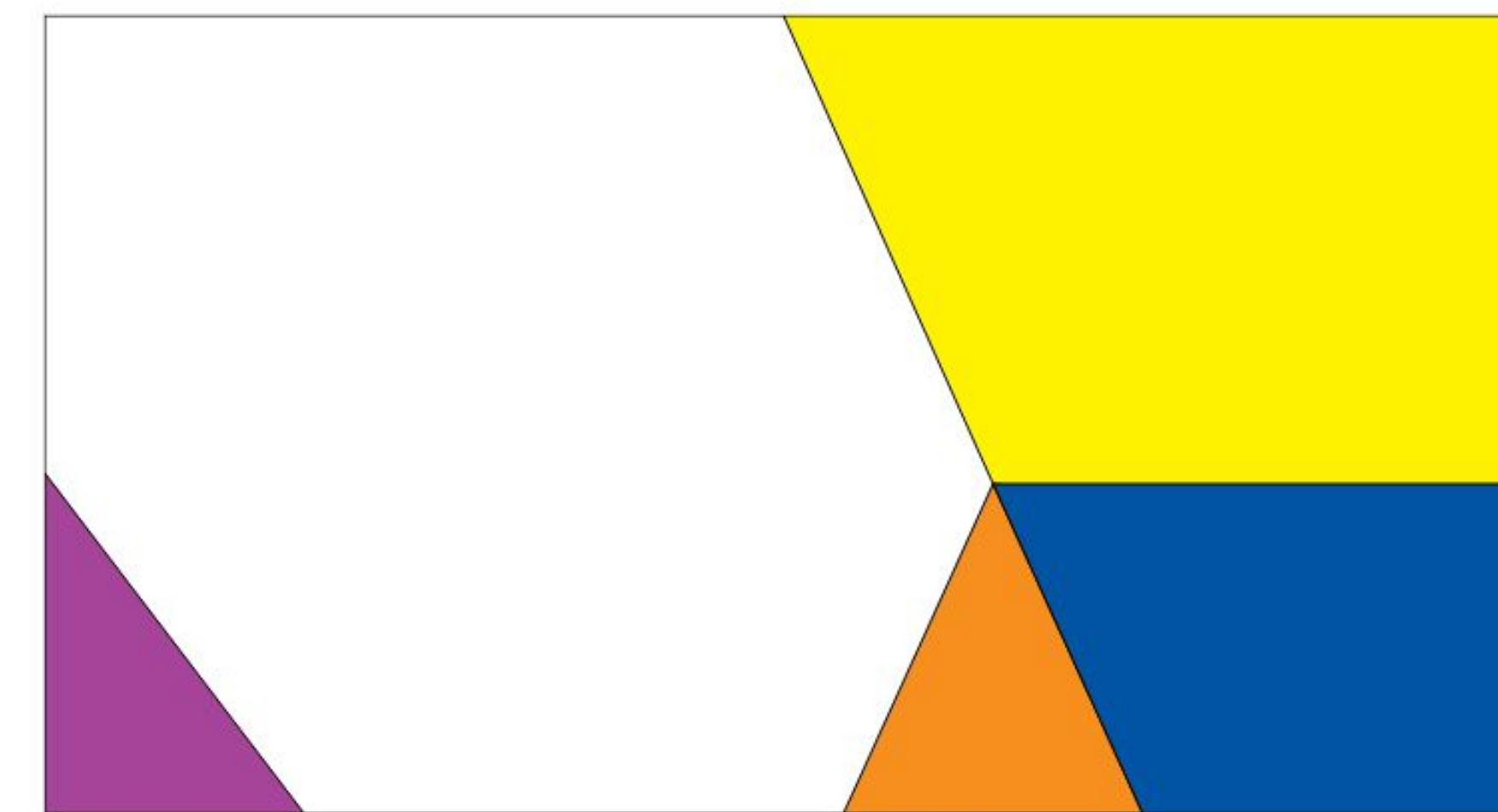CEO of Cypress Information Services LLC.

Problem

Although cypressresume.com allows its users to create a resume and other supporting documents, a business card is not among those supporting documents. Mr. Waring wants to add a tool to his web service which allows his users to create a business card along with their other documents.

Solution

- Our solution comprises 2 web pages.
- Users can select from 12 unique business card templates.
- Users can select from 23 unique logos, or no logo.
- Users can select from 5 different color schemes.
- Users can select from 36 colors, building color combinations based on selected color scheme.
- Users can input their personal and employment information.
- Users can choose between employed and unemployed status.
- Users can change font color between black and white.
- Users can download their completed card as a PNG image or send the card as an attachment in an email.
- All user input is updated live in real-time in a preview window on each page.

Implementation

- Started by downloading a copy of the existing website and added a button that linked the current website to our business card pages.
- Once the user chooses to create a business card, they are directed to a page that contains the different card templates, logo choices, and color wheel.
- A preview window is located on this page that changes in real time as the user creates their card.
- A button at the bottom of the page sends the card choices to the following page.
- Second page contains fields for the user to enter information such as their name or address.
- A button at the top of the page allows users to select between employed/unemployed, removing corresponding fields in the process.
- Two buttons at the bottom of the page allow users to download and email their card.
- Card structure is transferred from the card creation page and is displayed in another live preview window that updates based on user's inputted fields.
- Header and Footer page design consistent with the rest of existing site.

- One of the biggiest implementation problem we had was figuring out how to update our business card preview in real-time whenever the user selected a new color combonation or color.
- We figured out to use .SVG files to implement our real-time business card preview
- .SVG files are Scalable Vector Graphics, and the difference between .SVG files and regular image files such as .png, .jpeg, or .jpg are that .SVG files are vector images composed of fixed set of shapes while image files are composed of fixed set of pixel.
- With the the advantages of .SVG files we were able to assign each fixed shape on the file a ID in which it would cooorespond to the multiple color output of the colorwheel.
- For example, the image to the left has a .SVG business card file that is composed of 5 shapes and each of those shapes are assigned a unique ID to correspond to the multiple output of the color wheel that is right above it.

Project Highlights

- The team approached the project with a Agile software development philosophy with an emphasis on SCRUM
- Programming language used: Javascript, PHP, HTML, CSS
  - **36 Files with 3800 lines of codes**
- Software tools used
  - **Selenium, notepad++, Gitlab, Visual Studio Code**
- Unique Color wheel that select multiple color base on a user selected Color Scheme

Lessons Learned

Upon starting this project most of us did not have experience using Javascript, PHP, HTML, CSS, or how to build a web application therefore we had to learn all of these components. We were also fairly new to the Agile software development philosophy with SCRUM framework so it took us about two sprints to fully understand and apply this framework. Lastly, we learned how to efficiently work with and communicate with our client in order to bring his idea to life.