

**Project Part 1**

**HTML And CSS**

**Student: Reeve Jarvis**

**Course code: DGL-103 DLU1I**

**Instructor: Frank Lu**

**Due Date: 11-03-2020**

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## **Section 1: Website Purpose**

### **Description of the “client”:**

I will be the primary “client” for this website design, as it is intended as a personal site used to showcase a profile of myself and my talents as a developer. I will use the site to track my progress, and further develop my skills for a career in the tech industry. I believe it will be a significant tool for my career in the future.

### **Target audience/users:**

The intended use for this site will be multipurposed. Therefore, the target audience and potential users will be varied. The website will:

- Introduce my “business” to **clients** who require my services
- Serve as a profile for myself that I can distribute to **colleagues** in the industry
- Provide a portfolio of my work for **potential employers, and freelance contractors**
- Be a place to discuss my personal interests and opinions on video games and tech culture with **those who have shared interests**

### **Purpose and Main Content:**

For my DGL-103 Course project I have decided to design and develop a personal website. My goal is to create a website for the purpose of presenting a detailed profile of myself as an aspiring web and mobile app developer. This website will serve as a showcase of my abilities and continue to grow as I build more content through my student career. Upon completing my program at NIC, I will continue to develop the site as a portfolio and contact page for prospective employers and freelance contractors. The site will also include a more personal themed page catered to my passion for video games. The site will be comprised of the following pages:

#### **Home Page:**

My home page will serve as an entry point to the website. It will be a simple welcome page, introducing my potential “business” and indicating the purpose of the website to viewers. I will work to develop a pleasing and concise introduction for this page, with appealing images as accent pieces.

#### **About Me:**

The About Me page will serve as an introduction to me as a person. This is where visitors can go to learn about who I am, and what I have experienced throughout my life. I will include short profiles of important members of my life, and their relation to me (Kayla my spouse, and my Dog Archibald). Additionally, this page will include a collection of photographs and if development time allows a multimedia video component showcasing some of the beautiful places I have lived and visited throughout the years.

**Game Room (Optional):**

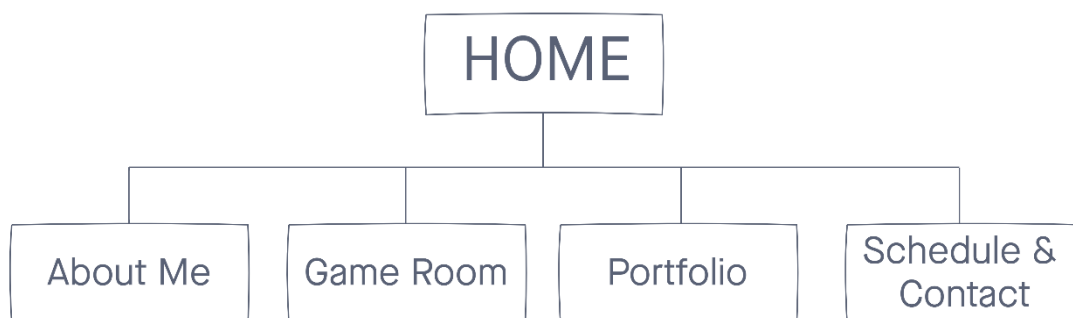
The Game Room page I will maintain as an optional page. It will serve as a more personal addition to the website and will primarily be focussed on my passion for video games. I will use this page as a sort of blog page to discuss the games that I am currently playing (with description and possibly reviews). Additionally, I will present a list of my Top Three games of all time with insights into why I consider them to be of such a high standard. I will plan to continue adding content to this page as my current game of choice changes with more recent releases.

**Portfolio:**

The Portfolio page will serve as a running collection of my completed work throughout my school career and beyond. I will include a write up for each respective category indicating their significance to my skills as a developer. Additionally, I intend to track and indicate my ability level in each area for prospective employers in the industry, and available freelance positions. I will also include a collection of photos of my work in each category.

**Schedule and Contact:**

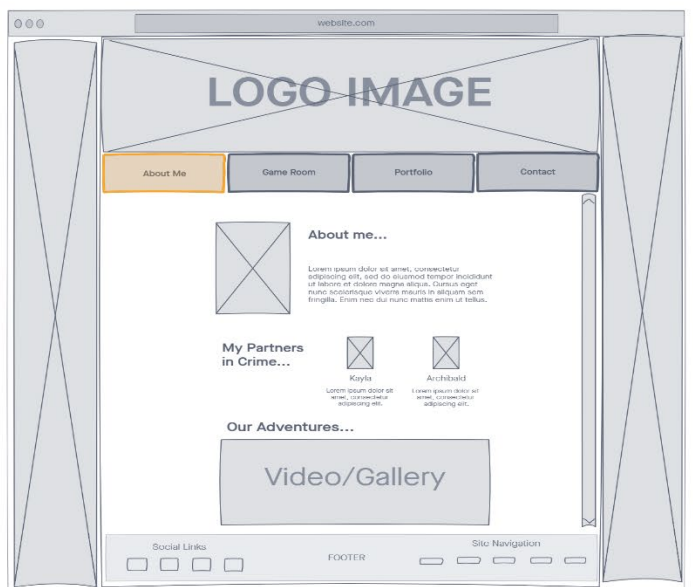
The Schedule and Contact page will serve as place for visitors to find my current schedule and availability as well as provide options to contact me through multiple channels. Throughout school I will use this page to track my current schedule and deadlines, adapting it upon graduation for business purposes. Additionally, I will provide a form to fill out for clients or employers interested in my services.

**Section 2: Site Map and Wireframes**

Desktop - Home Page



Desktop - About Me



Desktop - Game Room (Optional)



Desktop - Portfolio



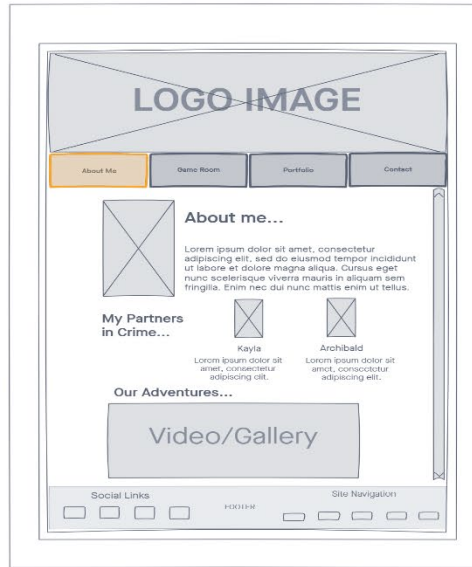
Desktop - Schedule & Contact



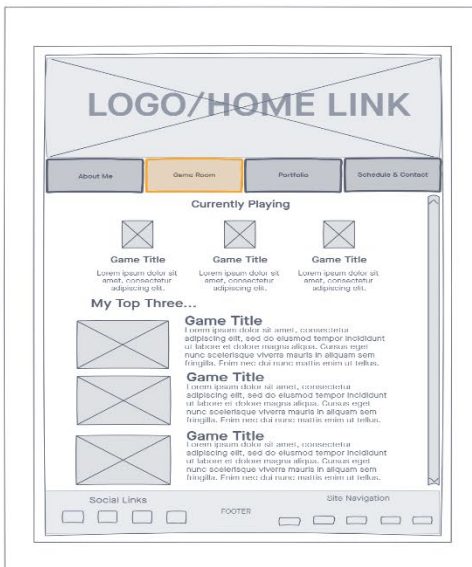
Tablet - Home Page



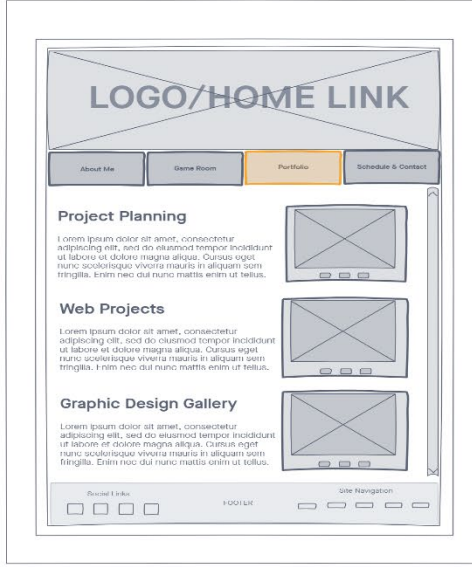
Tablet - About Me



Tablet - Game Room (Optional)



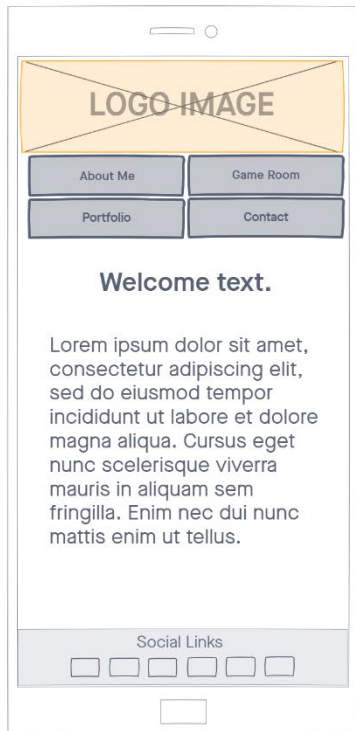
Tablet - Portfolio



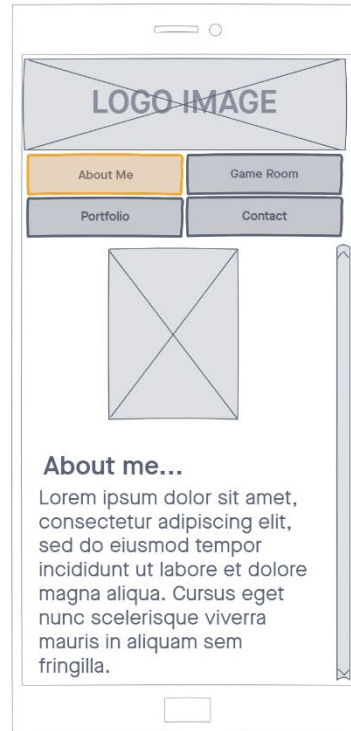
Tablet - Schedule & Contact



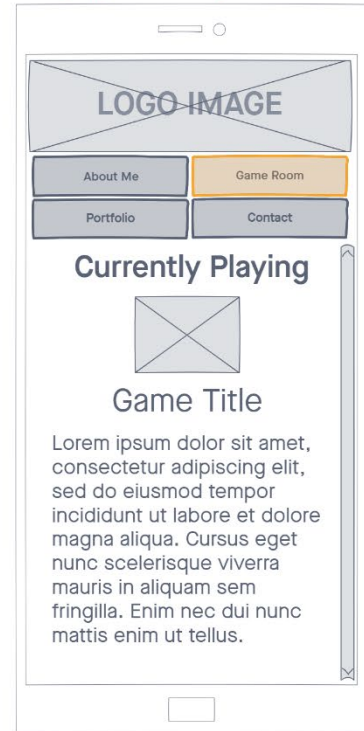
## Phone - Home



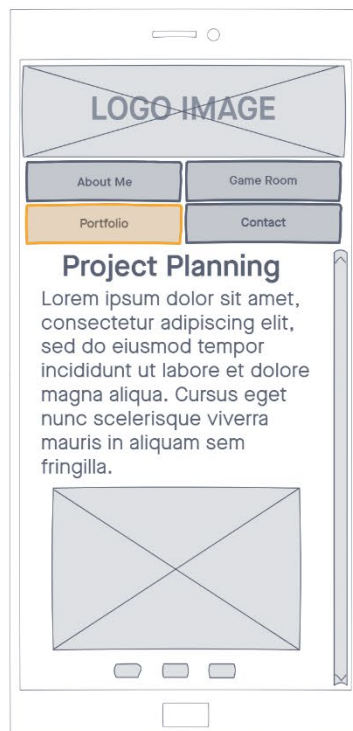
## Phone - About Me



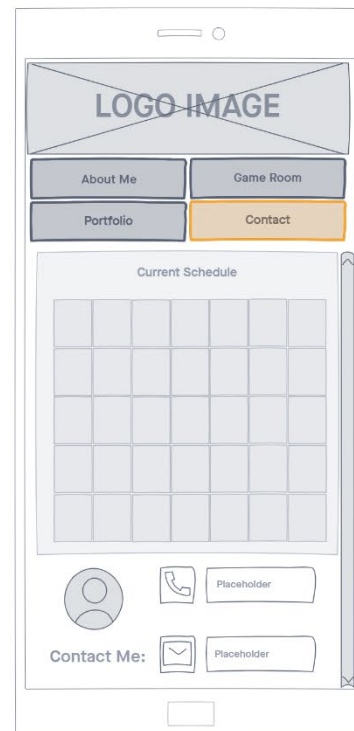
## Phone - Game Room (Optional)



## Phone - Portfolio



## Phone - Schedule/Contact



## **Section 3: HTML and CSS**

I will take particular care in ensuring a pleasant website experience for all users regardless of which device they are using. This page will be created using responsive design, and a blend of relative and fixed units to achieve an appealing visual presentation.

### **HTML Considerations:**

- Pages will be developed using the current HTML-5 standard
- UTF-8 standard character encoding set
- Responsive web design based on user output device
- Head section of each page will include comments indicating page purpose, author identification, and most recent date of updates made
- Clear concise <title> included in Head Section for browser tab and search engine purposes
- Description tag used for search engine appearance and optimization
- External style sheets will be the primary CSS implementation method and will be linked in the head section of each page
- Google Fonts will be linked in the head section for use in the page
- Page structure will be designed thoughtfully and in an organized manner, implementing sectioning elements appropriately
- Logical text level elements will be the preferred method where needed
- Alt attributes will always be included for inline images of significance

### **HTML Elements:**

- <body>, <header>, <article>, <aside>, <footer>, <div> used to section content according to purpose and structure of the page
- <nav>, <ul>, <a> elements will be used for navigation bar, and hyperlinking to different pages within the site or external resources
- <h1>, <h2>, <h3>, and <p> elements used for headlines and paragraph text
- <img>, <figure>, and <figcaption> elements used for images and captioning
- <section> will be used to apply column constraints for floated page elements and structuring
- <footer> will contain links to external social channels as well as additional navigation links
- <span> used to identify portions of content for styling purposes
- ID and Class selectors will be applied to elements for specific CSS implementation
- Table elements used for calendar on the schedule and contact page
- Form elements implemented on contact page and used for multiple form controls including input boxes, check boxes, selection list, calendar controls, and text area box

### CSS Rules and Considerations:

- Style sheets will be developed using CSS3 standard
- @Charset UTF-8
- @Media queries used to design a responsive layout dependant on output device
- Using style inheritance to form a responsive style layout, as well as apply styling to large sections of the website simultaneously
- More specific styles applied to elements afterwards using various selectors and pseudo classes and elements
- Progressive enhancement used for modern browsers
- Primarily using multiple external style sheets to implement CSS
- Reset style sheet used to eliminate browser defaults imposed on site and start with a clean slate
  - Apply display: block, border box sizing and reset padding, borders, and margins to 0
  - Eliminate all text decorations and list styles from navigation elements
  - Set standard font styling for all body elements
- Layout style sheet used for structural components and page layout features
  - Will focus on a fluid page layout using % for scalability, but also implementing absolute measurements to padding and certain positions to maintain visual appearances
  - Min-height used to ensure website fills browser page
  - Min and Max widths applied based on-screen size
  - Primarily using floating block elements to structure page organization
  - Clear used to avoid container collapse
  - Padding, border, margin, height, width, display, overflow, position, float used for structuring page elements
  - Class and ID selectors used to apply specific styles to elements and groups
- Visual style sheet used to implement artistic and aesthetic styling, as well as visual effects
  - font-family, font-size, font-weight, letter spacing, word spacing, text transform, text decoration, text-align used on text elements
  - Sans-serif fonts and scalable font sizing will be used throughout website for ease of reading and simplicity
  - Rgb, and rgba used for colour application on texts and backgrounds to maintain support for older browsers and provide option for opacity, with HSL options for modern browsers
  - Filters applied to elements for additional opacity and styling
  - Transform, z-index, box shadows, backgrounds, borders, gradients applied for artistic style



## **Section 4: Accessibility and Usability**

To provide an accessible website for all users I will take great consideration in developing its usability features. The following are the guidelines I will strive to meet with the elements and styling rules I indicated above:

- All images that add meaning and/or substance to the page will have Alt text provided
- Colours and design choices will be made purely for aesthetic purposes, and will take contrast into consideration
- If I am to include a multimedia element other than for visual appeal, captions and/or auditory descriptions will be provided
- Primary text elements will not solely rely on colour and will be presented in a fashion that is readable to people with varying visual impairments
- A language standard will be maintained
- Data tables will have row and column headers, as well as additional markup for association with one another to provide screen reader compatibility
- Document will be organized so that it can still be understood without the use of a style sheet
- Each page and section within will include concise titles and identification
- No disruptive flickering or animation will be included in my website design, reducing visual barriers

In addition to doing my best to address the above issues, I will conduct browser testing through the WAVE extension to assess the accessibility of my website and ensure a standard is met.

## **Section 5: SEO Consideration**

Search engine optimization will be integral to the visibility of my website. As outlined in some of the elements and style rules above I will make the following design choices to optimize my search engine visibility:

- <title> tag in the Head section will be concise and to the point, providing an indication of the sites title and purpose (ItsJustJarvis Design and Development)
- Description metadata will be provided to give a summarized explanation of the contents of the website and its intended purpose. I intend to have this representative of the welcome message on my home page. The description will include that the site is intended as an introduction to myself as a developer and my “business” ItsJustJarvis Design and Development, a portfolio of my work, and a point of contact for clients and freelance contractors.
- Heading tags, body text, and image names will include keywords relating to the topics of design, development, video games, and technology to draw attention to the website from the intended viewers
- Page will be optimized for multiple viewing cases and output devices to increase usability

## Summary and Feedback

Course#: DGL-103 Section: DLU1I Assn#: PROJP1 Student Name: Reeve Jarvis

It took me 6 hour(s) to complete the assignment. I have learned and feel good about 95 % of the skills covered in the Chapter. From the assignment work I learnt the following:

I took my time with this portion of the assignment and ensured I was happy with the concept that I came up with. I really enjoyed the creative process of this website design proposal, especially due to my choice to build a personal website for my own career needs. I feel like through my research and studying I grew my understanding of the concepts we have learned thus far this semester. I used a program from my other courses to create my wire-frame designs and develop ideas. Coming away from this part of the Project, I am looking forward to implementing my design and building the website that I have imagined. This gives me a lot of excitement for the rest of this course, and my career as a developer.

### **The difficulties I encountered with this assignment:**

Throughout the design process I encountered difficulties with settling on design choices and ideas. However, that is all part of the process. I also was able to further develop my skills with some of the concepts I have struggled to fully understand so far in this course. I hope that the proposal I drafted is up to the expectations for this project as I was a little confused by the requirements.

### **The sections / topics that I would like to review further:**

I will be reviewing the newer concepts we are currently discussing (responsive design, etc.) further as I have not had the time to fully absorb the information yet.

### **Other comments and suggestions:**