

Project Part II

Web Design Report

HTML And CSS

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Course code: DGL-103 DLU1I

Instructor: Frank Lu

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Website URL: <https://nicdgl103.github.io/project-ItsJustJarvis/ItsJustJarvis.html>

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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):

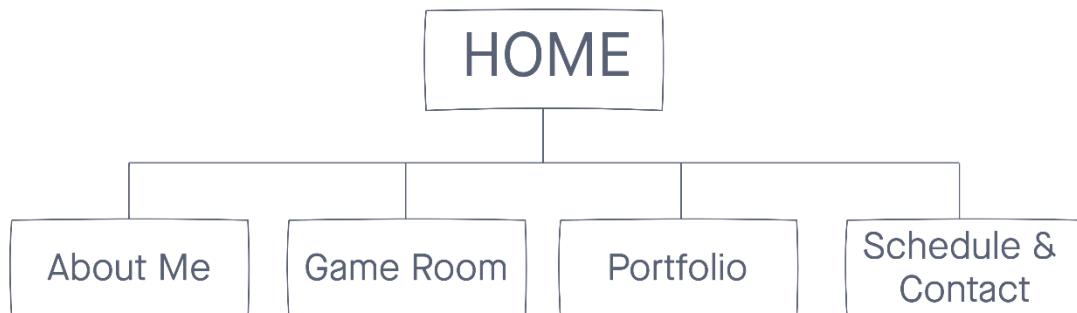
The Game Room page I will maintain as an optional page. It will serve as a more personal addition to the website and will primarily be focussed on my passion for video games. I will use this page as a sort of blog page to discuss the games that I am currently playing (with description and possibly reviews). 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.

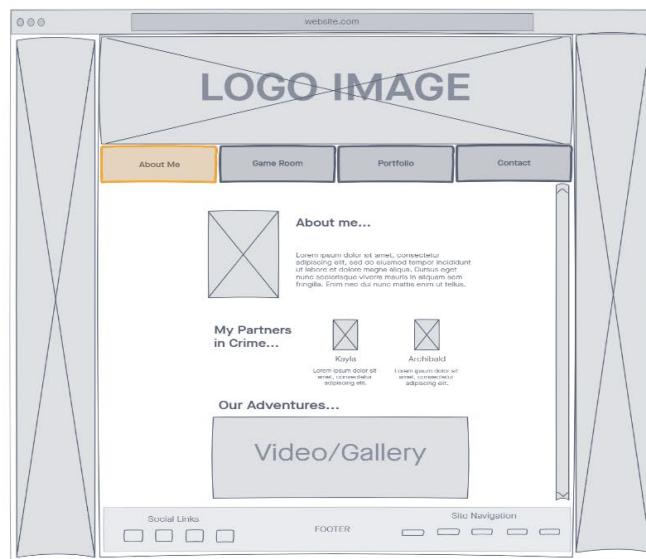
Portfolio:

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.

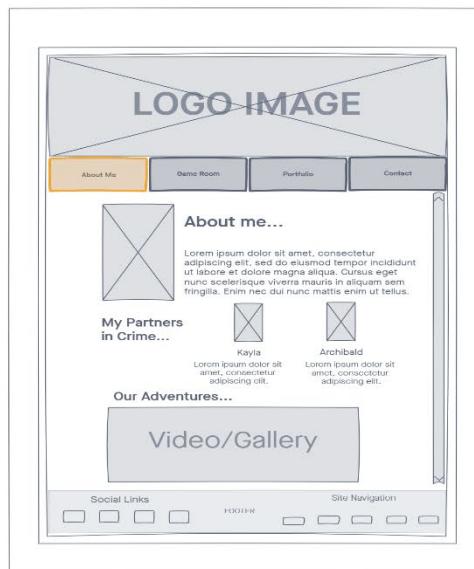
Section 2: Site Map and Wireframes

Desktop - Home Page**Desktop - About Me****Desktop - Game Room (Optional)****Desktop - Portfolio****Desktop - Schedule & Contact**

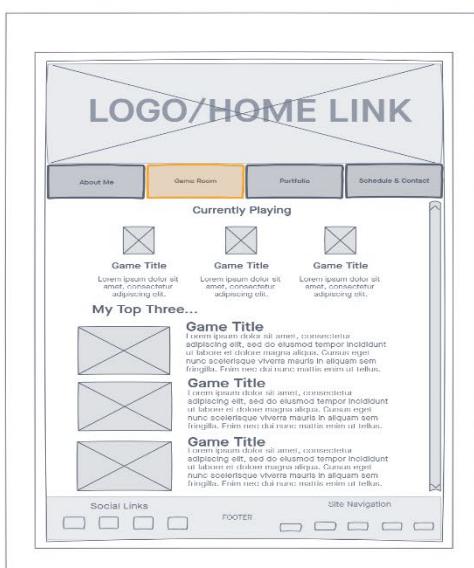
Tablet - Home Page



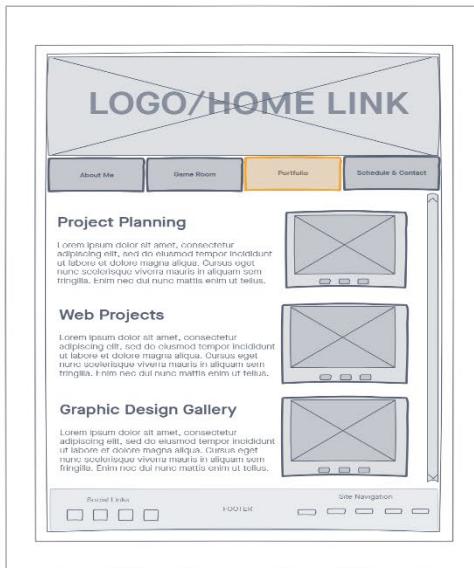
Tablet - About Me



Tablet - Game Room (Optional)

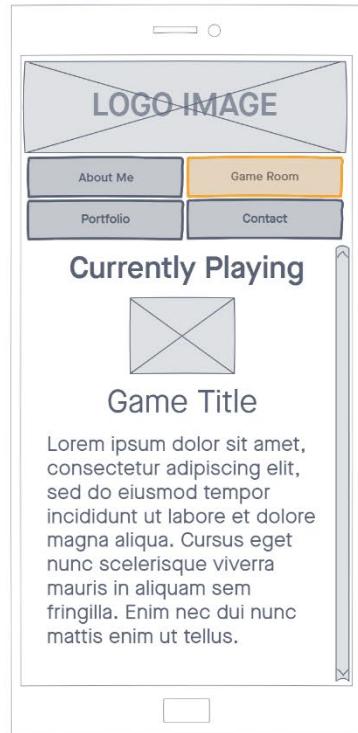
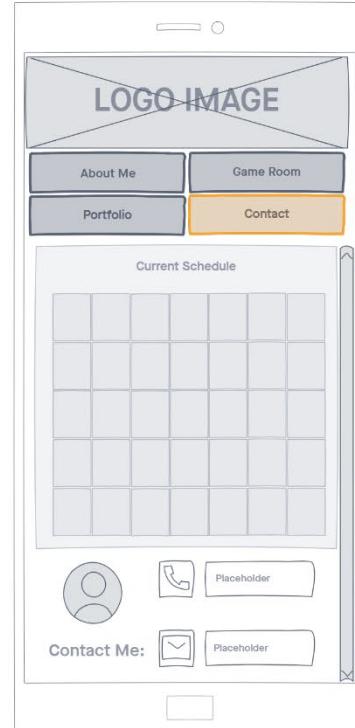


Tablet - Portfolio



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. To achieve a truly responsive design I will use a flexbox layout. The website will be completely mobile friendly.

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>, <footer>, <section>, <div> used to section content according to purpose and structure of the page
- <nav>, , <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
- , <figure>, and <figcaption> elements used for images and captioning
- <section> will be used to apply constraints for flexbox page elements and structuring
- <footer> will contain links to external social channels as well as additional navigation links
- 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 flex box elements to structure page organization
 - Clear used to avoid container collapse
 - Padding, border, margin, height, width, display, overflow, position, flex 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: SEO 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.

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 site's 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

Section 5: Implementation

I have implemented my site according to the above report, and my initial design. I have structured my pages using a flex-box layout with responsiveness for every device. I have maintained consistent structure throughout my website by using container elements as outlined above and with the considerations proven below in my WAVE results. I have used percentage for width values to maintain responsiveness, and used minimal absolute units. Throughout the site I have made use of psuedo selectors to implement styling to significant elements. I created a calendar on my contact page using a table, and a complete form for requesting my development services. I will not list off all of the elements used as those are present in my code, and found in and adjacent to the report above. I have further outlined my implementation in the remainder of the report and my testing results show the final product.

Section 6: Testing and Validation Results

WAVE Homepage:

The following apply to the entire page:

Styles: OFF ON

Summary

- Errors: 0
- Contrast Errors: 0
- Alerts: 0
- Features: 5
- Structural Elements: 6
- ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

ItsJustJarvis Design and Development

Welcome to ItsJustJarvis Design and Development

My name is Reeve Jarvis and I am an aspiring developer starting his journey towards a career in tech. Currently I am studying in the Web and Mobile App Development Diploma program at North Island College, graduating Spring 2022. Follow along as I build my portfolio and launch my career into the tech industry.

Outside of my work, I have a passion for tech and video games. Visit the Game Room page (Under Construction) for my reviews on the latest releases, and curated lists of my favourite titles.

As I grow my skillset, I will be accepting contracts as a freelance developer. If you are interested in my services, visit the Contact page for my `</>` and information on how to get in touch!

WAVE About Me:

The following apply to the entire page:

Styles: OFF ON

Summary

- Errors: 0
- Contrast Errors: 0
- Alerts: 0
- Features: 26
- Structural Elements: 9
- ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

ItsJustJarvis Design and Development

About Me

h1 About Me

h2 I've always dreamed of being a developer...

My whole childhood, I spent my time exploring interesting new worlds through video games. I grew a passion for technology the second my hands touched the controller. I am excited to

WAVE Portfolio:

The following apply to the entire page:

Summary

- Errors: 0
- Contrast Errors: 0
- Alerts: 0
- Features: 8
- Structural Elements: 10
- ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Portfolio

Although I have just begun my journey into web and mobile app development, it feels like second nature to me. I have been able to achieve much more than I had anticipated in my first year of studies. I have excelled in all of my courses, and will continue to work hard towards a successful career in tech.

If you have any questions or you are interested in </> visit the contact page to check my availability and get in touch.

Measure of Skills:

- HTML: 90/100
- CSS: 85/100
- Java: 75/100

WAVE Game Room:

The following apply to the entire page:

Summary

- Errors: 0
- Contrast Errors: 0
- Alerts: 0
- Features: 16
- Structural Elements: 11
- ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

Currently Playing:

- ASSASSIN'S CREED VALHALLA
- CALL OF DUTY BLACK OPS COLDWAR
- HALO THE MASTER CHIEF COLLECTION

Up Next:

- SYBERPUNK 2077

WAVE Contact:

As shown in the above WAVE results, my website scored very well when considering Accessibility and Usability. There are no errors to report across any of the pages. There are plenty considerations taken to ensure a comfortable and accessible experience for all users. I have followed the guidelines I mentioned in my above report. Each page has significant structuring and headings to ensure understanding even without a style sheet. Alternative text is provided for all images in the case that they do not load. Throughout my website I have used colour for aesthetic purposes, but the text has remained a visible white. The contrast over the colour of the page allows the text to be easily legible. Additionally, I have used a font that is friendly to all viewers, Open Sans.

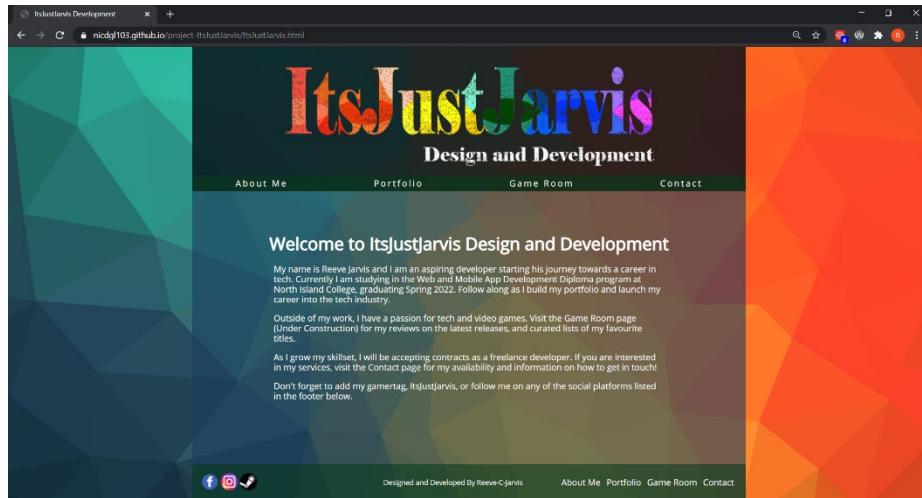
In terms of SEO, I have implemented both description and keyword meta tags in my head section for search visibility. I have also used various identifying keywords throughout the website. My title is clear and concise and contains the keyword of development. My site has a clear theme and identity that should make it visible and available.

Browser Testing Results:

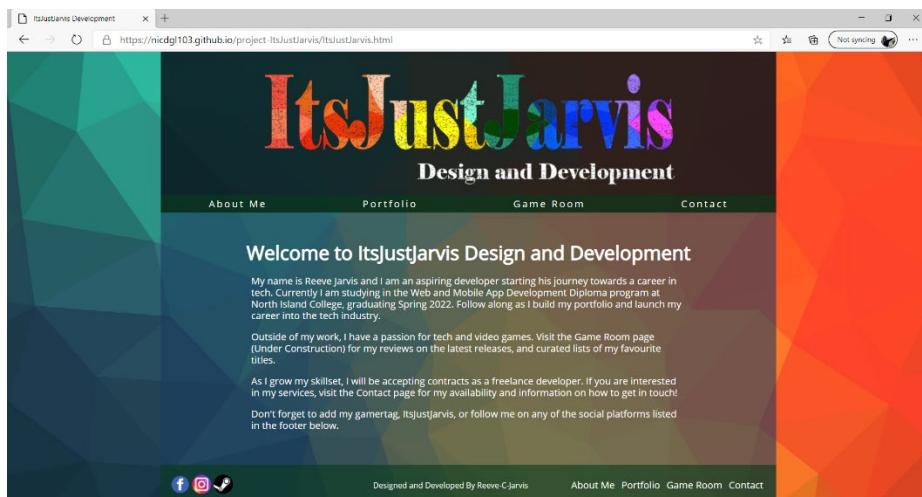
I have decided to make a completely responsive website using Flexbox and Media queries for different viewing devices. All pages will scale and adjust their layout accordingly as laid out in my wireframes above. I made minimal, insignificant changes to the design of my wireframes and used them as a structural blueprint to build my website.

Throughout the implementation process I used various devices to test the layout and structure of the site to ensure it was fully responsive. I am confident that the page will have a pleasing display on most if not all devices. I was able to test the site on various iPhone models, a Samsung Note10+ as well as laptops and desktops with different screen sizes. Below are the results showing each page viewed on some of these devices and in different browsers.

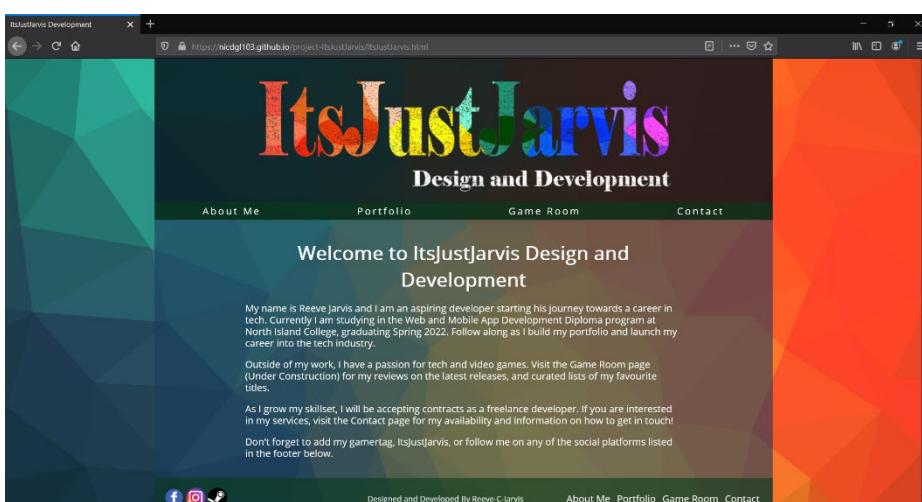
Homepage Chrome:



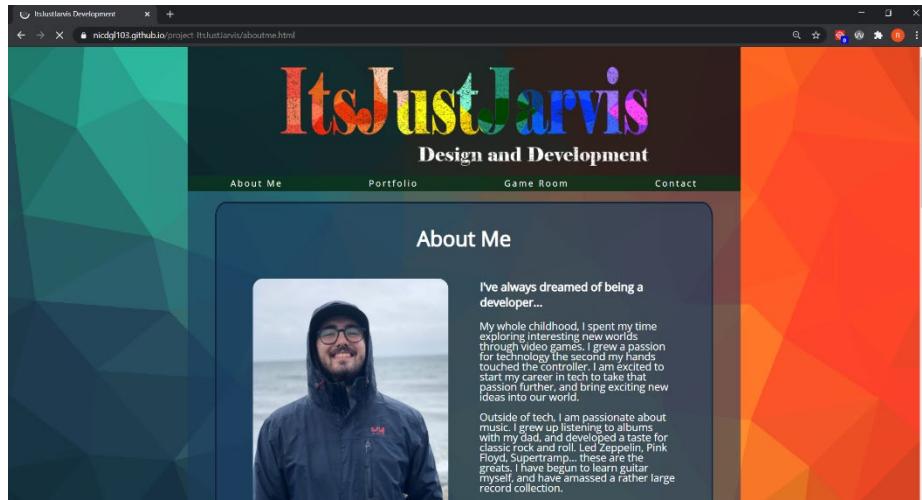
Homepage Edge:



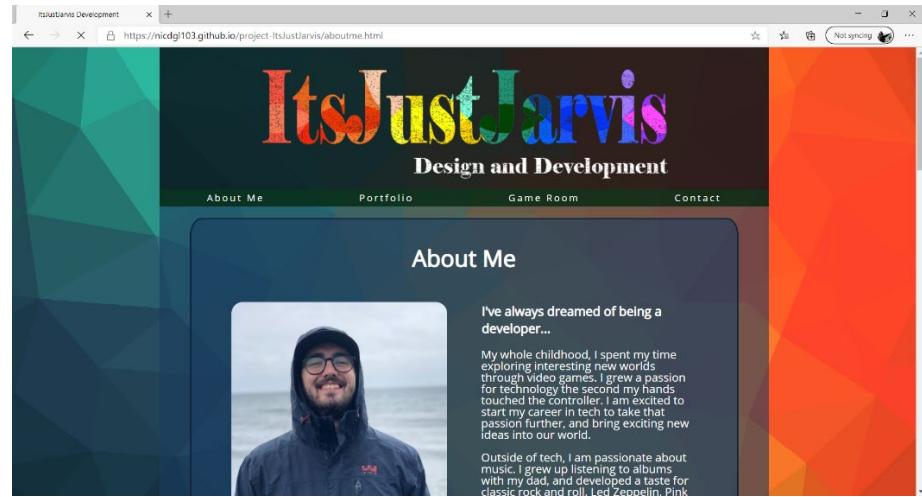
Homepage Firefox:



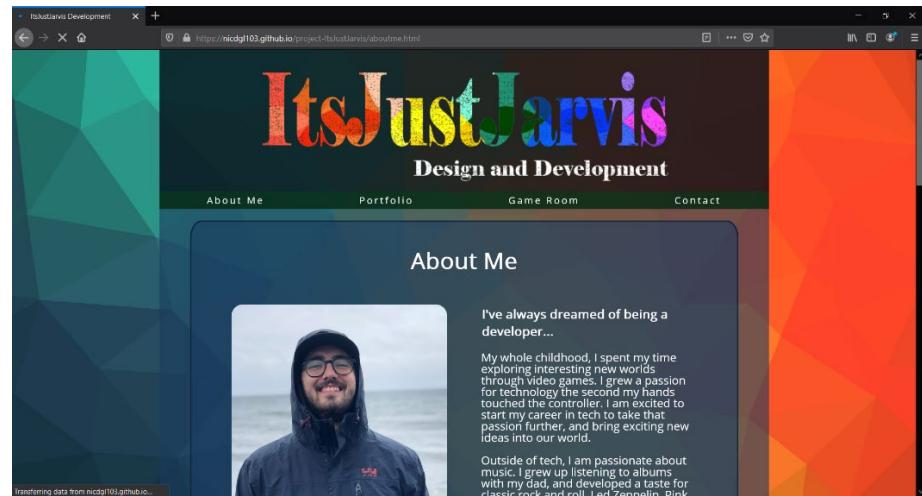
About Me Chrome:



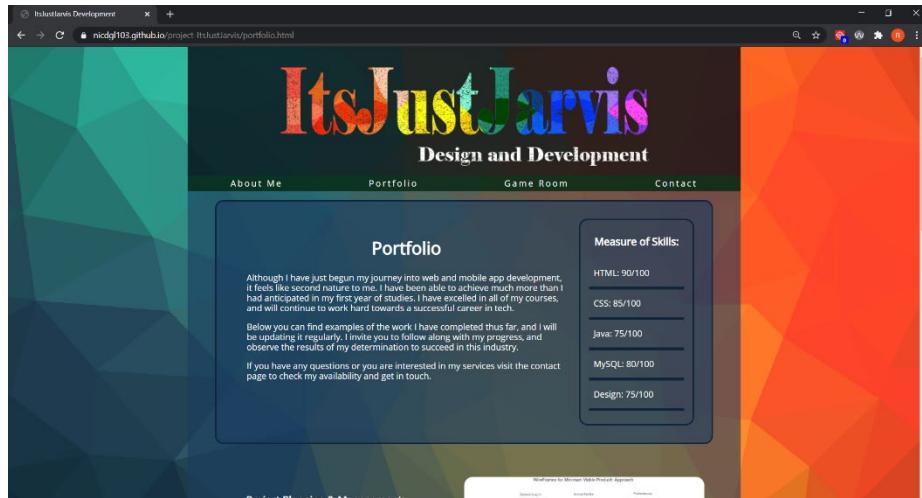
About Me Edge:



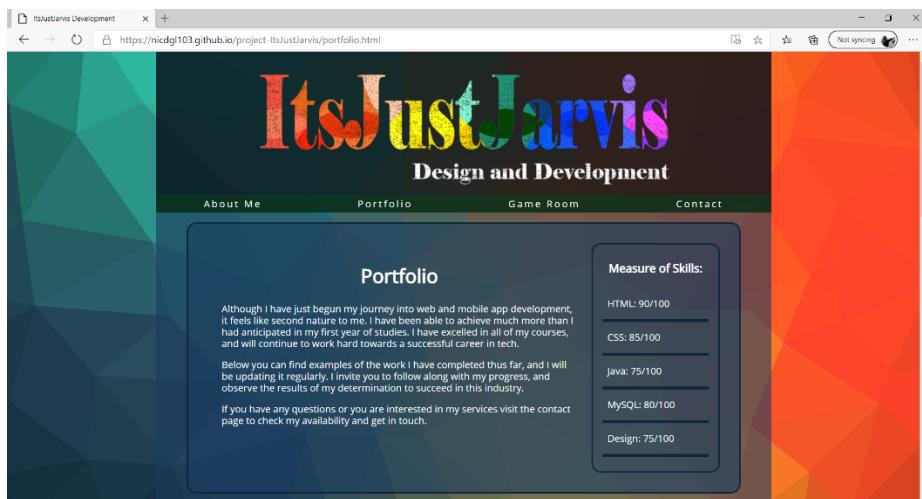
About Me Firefox:



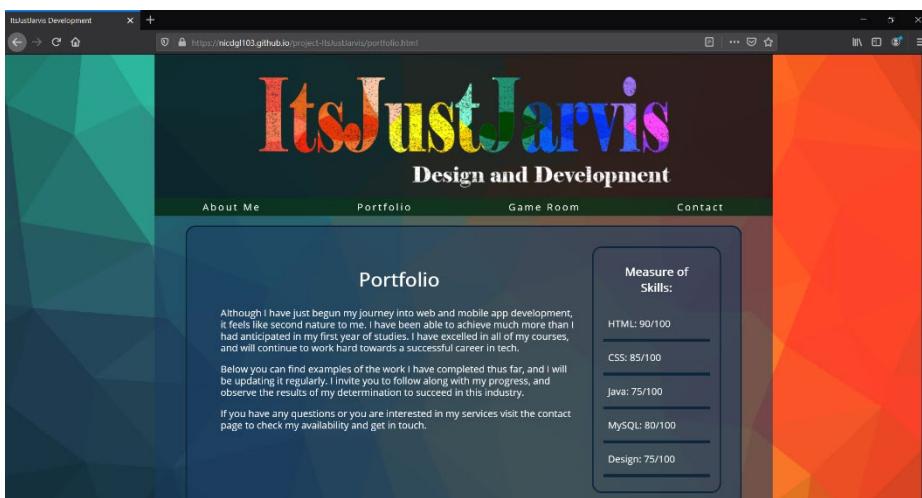
Portfolio Chrome:



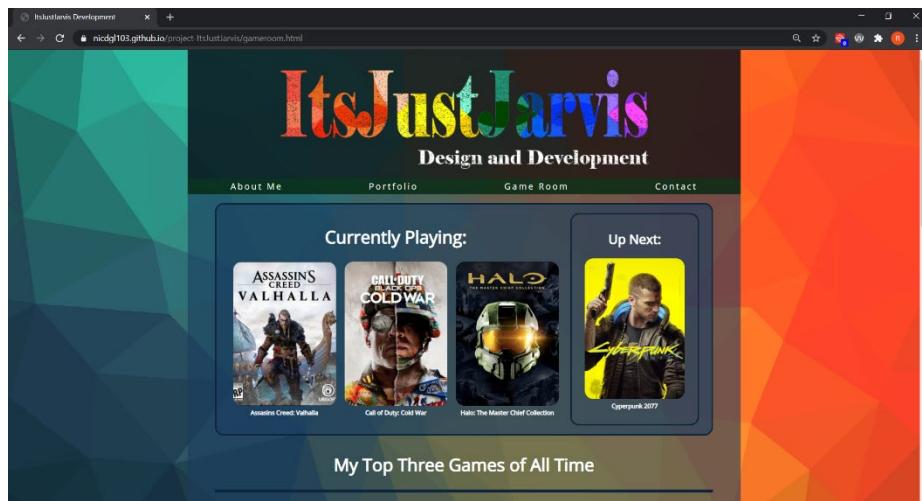
Portfolio Edge:



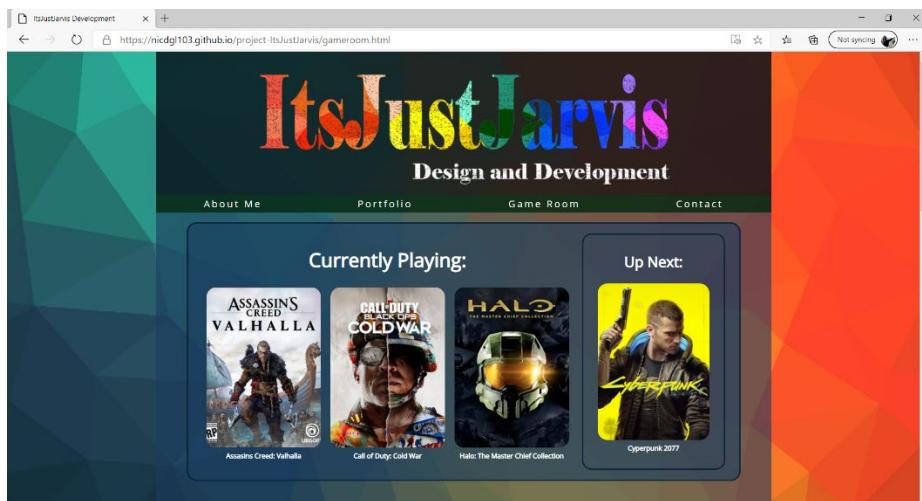
Portfolio Firefox:



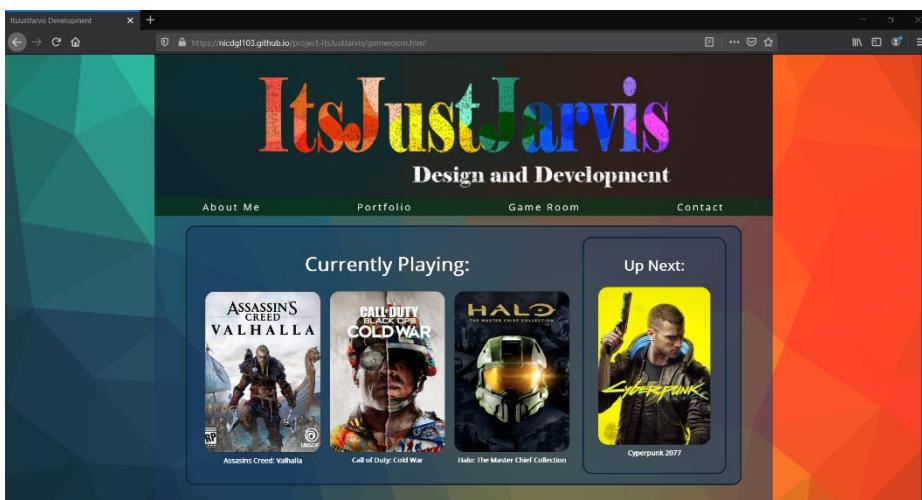
Game Room Chrome:



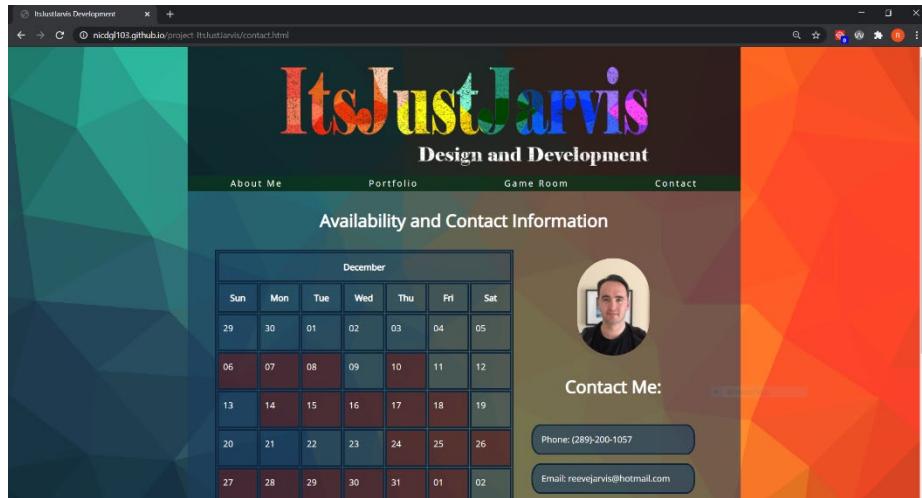
Game Room Edge:



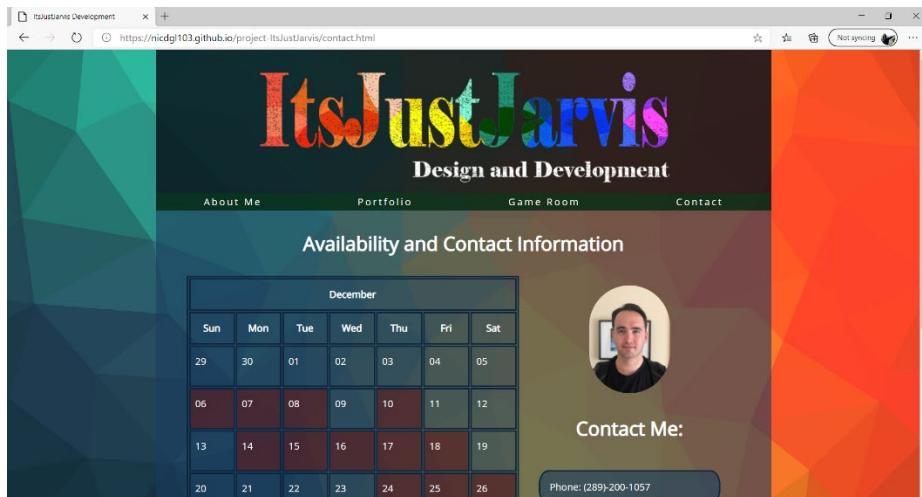
Game Room Firefox:



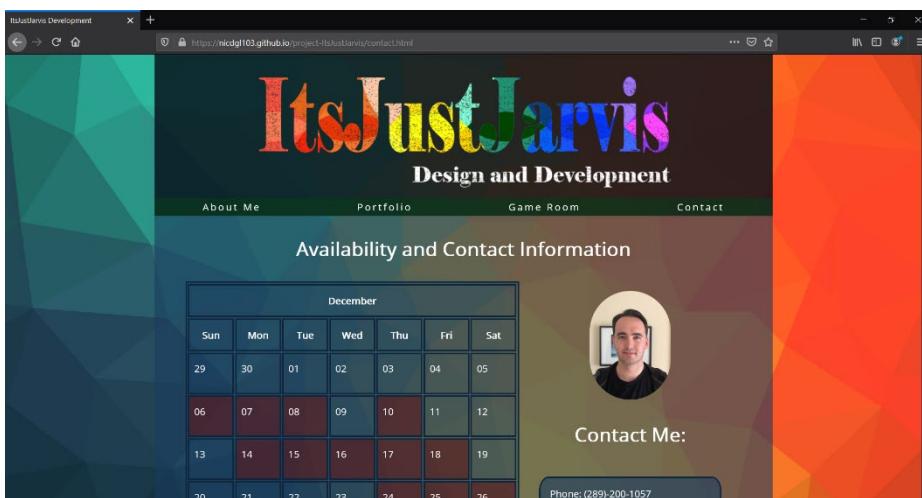
Contact Chrome:



Contact Edge:



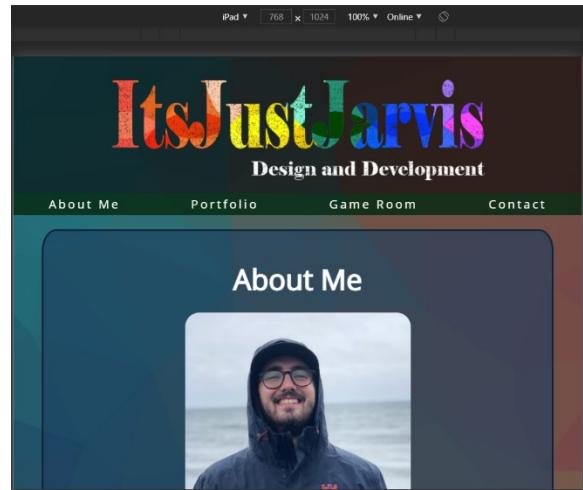
Contact Firefox:



Homepage Tablet:



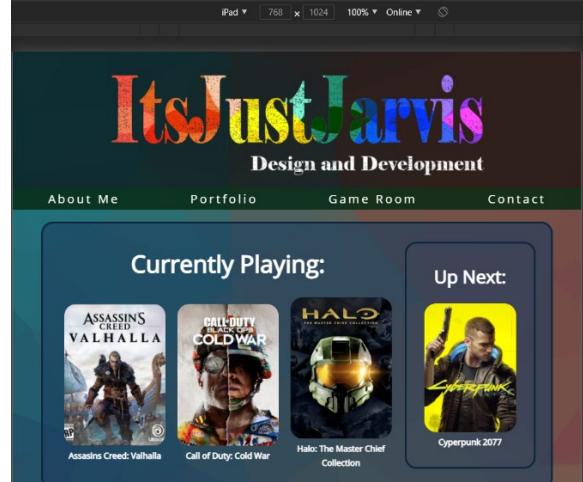
About Me Tablet:



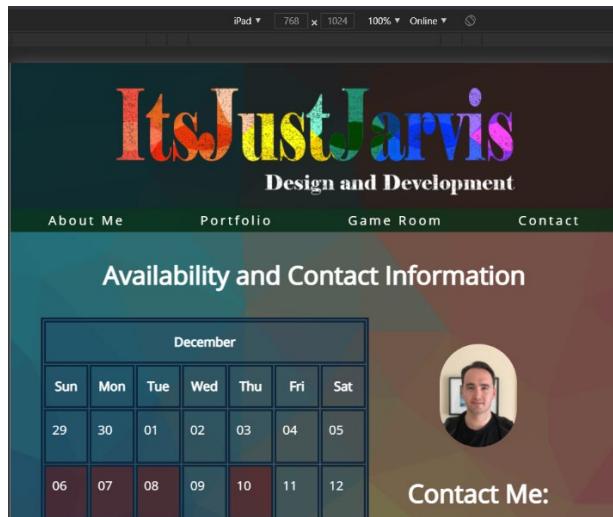
Portfolio Tablet:



Game Room Tablet:



Contact Tablet:



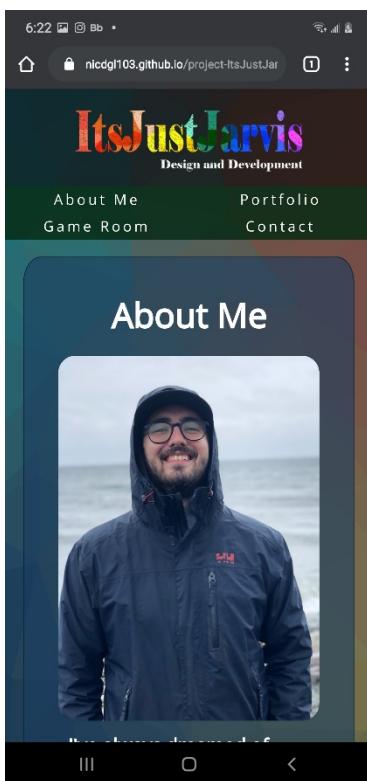
Homepage Samsung Note10+:



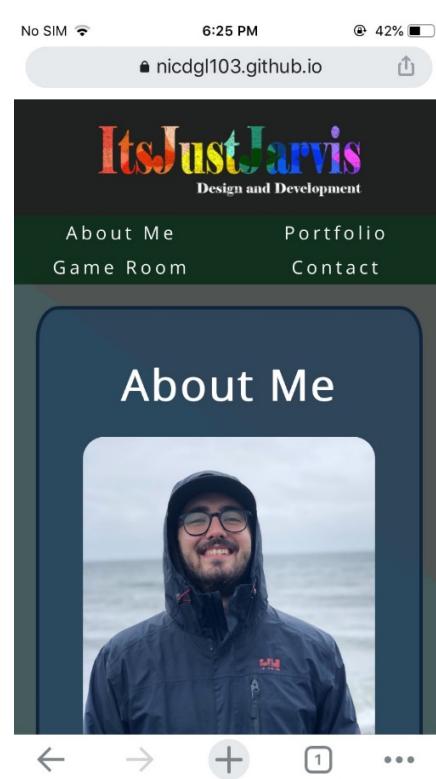
Homepage iPhone 6:



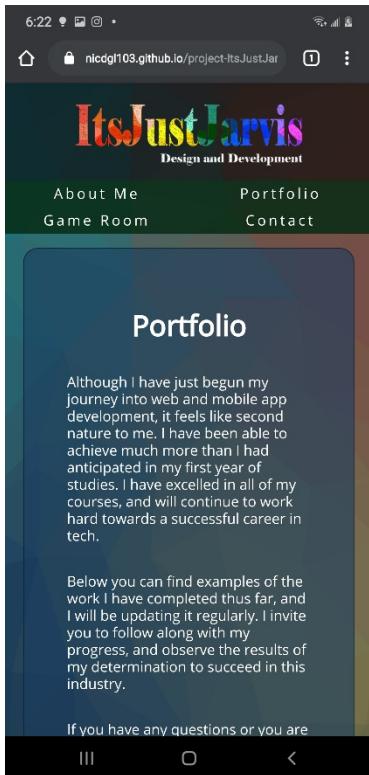
About Me Samsung Note10+:



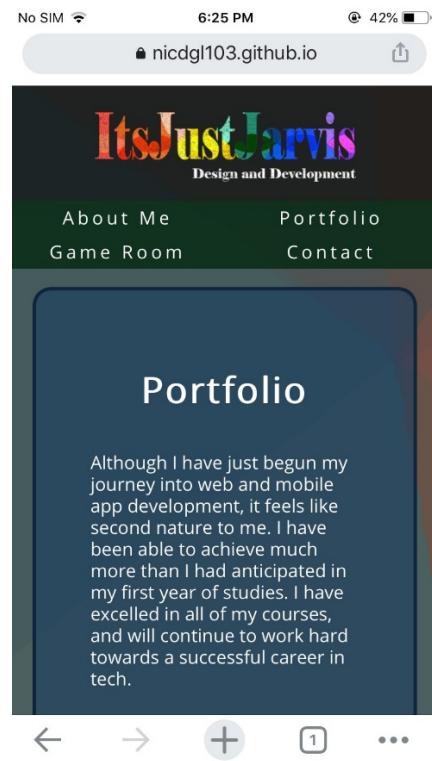
About Me iPhone 6:



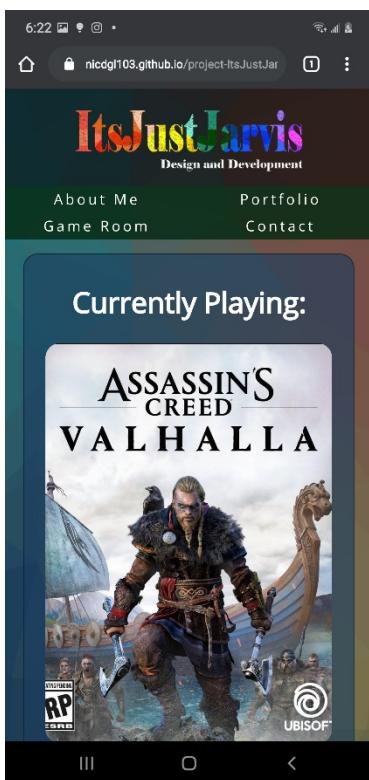
Portfolio Samsung Note10+:



Portfolio iPhone 6:



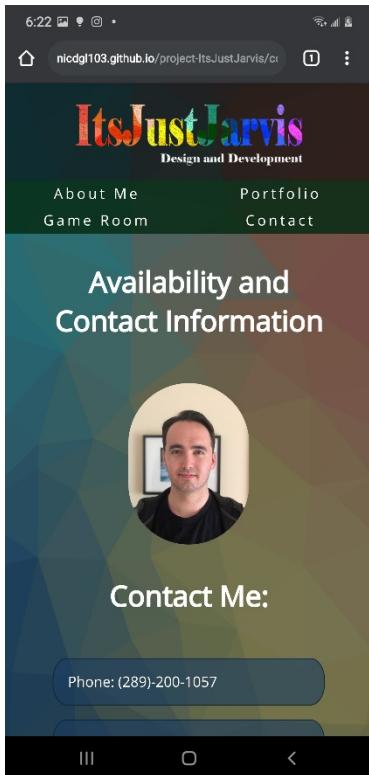
Game Room Samsung Note10+:



Game Room iPhone 6:



Contact Samsung Note10+:



Samsung Note10+:



Form Results:

On my Contact page I implemented a form to allow visitors to contact me and request my services as a freelance web and mobile app developer. I used 5 different form controls including text, textarea, checkbox, selection list, and date. These form controls will collect the data and submit it to the form handler at <http://dgl103.imgur.ca/formhandler.php>. Below are the successful results showing this process working:

Request for Services Contact Form:

First Name: Reeve	Web Development <input checked="" type="checkbox"/>	Describe your request: I would like your complete services for a project I am working on. It would be great to have someone to help with the workload.
Last Name: Jarvis	Database Design <input checked="" type="checkbox"/>	
Email: reevejarvis@hotmail.com	Java Programming <input checked="" type="checkbox"/>	
Requested Start Date: 2021-01-02	Project Planning <input checked="" type="checkbox"/>	
	Graphic Design <input checked="" type="checkbox"/>	
	Referral: Work Colleague	<input type="button" value="Submit Request"/>

Form Processing Result

There are 11 data elements in your form.

Field Name	Value
FirstName	Reeve
LastName	Jarvis
Email	reevejarvis@hotmail.com
Date	2021-01-02
Web_Development	on
Database	on
Java	on
Project_Management	on
Graphic_Design	on
Heard_From	Colleague
Message	I would like your complete services for a project I am working on. It would be great to have someone to help with the workload.

Section 7: GitHub Experience and Validation Results

Throughout this course I was able to successfully use the GitHub platform for my web hosting, and version control needs. After the continued use of GitHub, it has become an essential tool for my work. Throughout this project, as I did in all my course assignments, I would make commits after completing sections of code or significant features. The process allowed me to track my changes and gave me the option to revert if something caused any errors.

One difference that became present during this assignment is the process of tracking portions of code without specific sections of instruction to complete. This resulted in my commits being a little less organized than previous assignments.

Below you will find the validation results from each webpage on the GitHub pages hosted site, as well as each of my CSS stylesheets linked.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://nicdgl103.github.io/project-ItsJustJarvis/ItsJustJarvis.html

Checker Input

Show source outline image report

[Options...](#)

Check by [address](#) ▾

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.

Total execution time 67 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.12.5

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://nicdgl103.github.io/project-ItsJustJarvis/aboutme.html

Checker Input

Show source outline image report

[Options...](#)

Check by [address](#) ▾

<https://nicdgl103.github.io/project-ItsJustJarvis/aboutme.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.

Total execution time 71 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.12.5

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://nicdgl103.github.io/project-ItsJustJarvis/portfolio.html

Checker Input

Show source outline image report

[Options...](#)

Check by [address](#) ▾

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.

Total execution time 110 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.12.7

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://necdgl103.github.io/project-ItsJustJarvis/gameroom.html

Checker Input

Show source outline image report

[Options...](#)

Check by [address](#) ▾

<https://necdgl103.github.io/project-ItsJustJarvis/gameroom.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.

Total execution time 101 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.12.5

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://nicdgl103.github.io/project-ItsJustJarvis/contact.html

Checker Input

Show source outline image report

[Options...](#)

Check by [address](#) ▾

<https://nicdgl103.github.io/project-ItsJustJarvis/contact.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.

Total execution time 63 milliseconds.

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The W3C CSS Validation Service

W3C CSS Validator results for css_base.css (CSS level 3 + SVG)

Jump to: [Warnings \(2\)](#) [Validated CSS](#)

W3C CSS Validator results for css_base.css (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)



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The W3C CSS Validation Service

W3C CSS Validator results for css_layout.css (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for css_layout.css (CSS level 3 + SVG)

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The W3C CSS Validation Service

W3C CSS Validator results for css_styles.css (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for css_styles.css (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

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Summary and Feedback

Course#: DGL-103 Section: DLU11 Assn#: PP2 Student Name: Reeve Jarvis

It took me 25⁻³⁰ hour(s) to complete the assignment. I have learned and feel good about 90 % of the skills covered in the Chapter. From the assignment work I learnt the following:

This project was probably the best learning experience for me as an aspiring web developer. I was able to use all of the skills I have learned throughout this course to build a website that I can truly call my own. I feel very confident in the product I have created.

I learned a lot about how to implement the concepts from the course into my own website that I have built completely from scratch. I did attempt some of the later material in my website and I hope that I was able to properly implement the flex-box layout. Through all of my testing and results the website appears pleasing on multiple devices so I know that I was successful in making the site appear as intended, however I am unsure if I did things exactly as I should have in the code segments as this was the first true test of my knowledge when making a website with my own code rather than relying on assignment material.

The difficulties I encountered with this assignment:

I encountered various difficulties throughout the implementation process. Trying to get the layout and structure of my code just right took some significant troubleshooting and work. I do feel that I was able to produce an impressive result though and am quite proud. As I stated above I feel as though my code may be overly extensive, and I may have some redundancies as I was implementing a flex box layout which is a very new concept to me. Making a truly responsive website was a lot of work, but I look forward to presenting my resulting product.

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

I do plan to spend time continuing my studies in this area as I have found the subject to be very interesting, and I feel that I have become quite good at it.

Other comments and suggestions:

I have thoroughly enjoyed this course, and a lot of that is thanks to you Frank. Thank you for a wonderful semester and I look forward to continuing to learn from you over the remainder of my program.

Website URL: <https://nicdgl103.github.io/project-ItsJustJarvis/ItsJustJarvis.html>