

Unknown Jams Documentation

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Course: HND Computing Year 2

Module: Application Development

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1. Introduction

In the first section of this report I will be discussing the concepts behind application development and their importance. I will then document the different stages I have undertaken to create my application. This will include:

- A requirements section describing the purpose of my application and the strategy used to manage the main requirements/features of the application.
- A design section documenting all the design principles followed to create the application.
- An implementation section providing screenshots of the application and the scripts within the application.
- An evaluation section providing the process of verifying/validating my application. This section will also include an evaluation of my application and a description of the future improvements that could benefit the application.

2. Application Development Concepts

2.1 Design Principles

The general idea of the design principles is that they provide a general set of guidelines to allow designers to consider different elements of their design, allowing them to develop well-functioning, eye-capturing designs. Zoe Harrington [1] explains the importance of an effective design and how studies show a large percentage of users are likely to not use an application if it is unappealing, outdated or takes long to load.

Tania and Deborah [6] describe the different principles and how there are over 125 of them. However, they continue to discuss the meta-principles which contributes of three main principles, these principles being:

- Consistency – Both Anthony Hortin [3] and Meg Reid [4] also mention the importance of repetition and how it can be used to strengthen a design. Consistency involves sticking to the same sizes, colours, fonts, typefaces and textures.
- Hierarchy – A visual hierarchy focuses on the perception of the elements within the application. This involves ordering the content within a website so that the user views the more important and relevant content first.
- Personality – Personality involves controlling the content of the application to help build expectations and familiarity about the application.

Other common principles include:

- Focusing on the navigation – The navigation is essentially the most important part to an application as this determines whether the user can use the app or not. As Danielle Hill [2] discusses, good navigation featured on an application should be easy to locate and comprehend.
- Regular testing – Test Early and Test Often is a principle explained by Martin [5] that consists of performing usability tests to gain insight on how to improve the design and functionality of the application.

2.2 Usability and User Experience (UX)

Usability is a part of the overall UX, however they differ from one another because usability focuses on the efficiency of the application and how easy it is to perform a specific action, whereas UX focuses on the users' perception and emotional connection with the application's elements.

Segue Technologies [7] stresses the importance of taking usability into consideration when developing an application, as this will limit any user issues and will ensure that the application is in working order for its users. An application that has taken usability into consideration will be easy to use and will mean little to no training will be required, this can be achieved by understanding how the user will carry out a task and minimising all the unnecessary steps involved within the task.

UX focuses on the psychological behaviour of the user by generally focuses on the visual appearance of the application. It's important the designers understand their users to create an application focused on the UX. UX is important as it increases engagement between the user and the application, which increases the likelihood of the users returning to the application.

3. Requirements

3.1 Introduction to Unknown Jams

The purpose of my application is to provide users with the ability to find new musicians and festivals within the reggae industry and understand the culture, the application also keeps users up to date with all the latest reggae related news. Users who have an interest in music, especially reggae music will find this application very appealing. The music advertised is suitable for all age groups and therefor the application is child-friendly.

3.2 Responsiveness of Unknown Jams

I have made use of the bootstrap library to ensure that the application responds to the different viewports. My application contains one major breakpoint which is when the screen size is less than 768 pixels wide. A screen size of anything less would indicate that the user is viewing the application through a smartphone, this allows the applications appearance to change to suit the smartphone view. At the breakpoint, the layout of the content rearranges and the navigation changes to feature the hamburger menu, the user can then click the hamburger menu which creates a dropdown list of pages within the application (see appendix A.). To achieve this, I made use of the grid system to layout the content to suit the different viewports.

3.2 Main Requirements/Features of Unknown Jams

Using the MoSCoW method I was able to define and manage the requirements and features of my application. The MoSCoW method works by splitting the requirements/features into four different categories, these being:

- **Must** have – The requirements/features that are absolute necessary and are non-negotiable
- **Should** have – The desired requirements/features of high priority, although they are not essential.
- **Could** have – Also desirable requirements/features however they are only considered if there is enough time and resources left and are not crucial
- **Won't** have this time – The least-critical requirements/features and are not appropriate for the given time of the application. However, they would be considered in the future when more time and resources are available

3.2.1. Must haves

- Must be responsive to a variety of screen resolutions.
- Must allow users to navigate between the pages of the application.
- Must have six pages within the application.
- Must support the major browsers.
- Must have at least a few interactive elements within the application.
- Must have all buttons work appropriately and direct user to correct page/link.

3.2.2. Should haves

- Should have around six different interactive elements within the application.
- Should have the content laid out in a professional structure across a variety of different screen resolutions.
- Should have a clear, easy-to-use navigation system.
- Should have the correct media accounts linked to the media icons.
- Should convey the intentions of the application from the home page.
- Should have a carousel on the home page.

3.2.3. Could haves

- Could have a lightbox effect for browsing and navigating the images.
- Could have a basic contact form on the about page.
- Could have a map showing the location of the business in the about page.

3.2.4. Won't have this time

- Won't have the option for users to create accounts and make use of a forum page where users can communicate with one another.
- Won't have the contact form working appropriately as it requires PHP.
- Won't have the option to change settings of the application, for example; increase/decrease text size, change the colour scheme, change font style etc.

4. Design

I have followed the principles mentioned by Rochester Institute of Technology [8] and the principles discussed earlier to create a professional design.

It is important that the homepage conveys a positive impression and communicates the application's purpose, this has been achieved by providing a carousel and a section which welcomes the user and provides a small sentence describing the aims of the application. It's also important that the navigation interface, buttons/links are easy-to-use, clear and easy to identify. Following the principles, I have made sure that the navigation bar is consistent, and all the buttons are easy to identify, the links within the site are also clear and meaningfully labelled.

Throughout the creation of the site I did regular testing with different user inputs and scenarios, this allowed me to identify any bugs and readjust the designs appropriately. I have also ensured consistency throughout by sticking to a specific font style and size, as well as used a colour scheme of black, gold and white, this is a colour scheme described by Tim Brown [9] as "high-end, trusted, bold and natural". All the images also follow the principles as they are relevant to the topic of the application.

I have also created a landing page wireframe, an inside page wireframe and a sitemap (see Appendix F.).

5. Implementation

5.1. JavaScript Functions within the Application

Animation effect used to scroll to top of page:

```
// Creates an Animation effect when user selects the arrow placed in the footer
// Add click event to the 'totop' link
$('.totop').on('click', function(e){
    e.preventDefault()
    // Animates page to top within one second
    $('html, body').animate({
        scrollTop: 0
    }, 1000);
});
```

Isotope used to filter options within the festival page:

```
// Used to filter out festival in specific continents
if ($.fn.festivals .maincontent').length) {
    // Start isotope festival filters
    $('.maincontent').isotope({
        // Options
        itemSelector: '.festival',
        layoutMode: 'vertical'
    });
}

//Add filter to buttons within festivals
$('.filter-buttons .btn').on('click', function(e){
    e.preventDefault();

    // Remove all active classes
    $('.filter-buttons .btn').removeClass('active');

    // Add active class to the current button
    $(this).addClass('active');

    // Get the chosen filter
    var tag = '.' + $(this).text().toLowerCase();

    // Replace 'show all' with the correct value for isotope
    if (tag == '.show all') {
        tag = '*'
    }

    // Update isotope
    $('.maincontent').isotope({
        filter: tag
    });
});
```

Animation effect that fades in the caption within the carousel:

```
// Creates an animation effect which fades in the text within the carousel
$('#myCarousel').on('slid.bs.carousel', function (e) {
    // Fades in caption within 2 seconds once carousel has slid
    $(e.relatedTarget).find('.carousel-caption').fadeIn(2000)
}).on('slide.bs.carousel', function (e) {
    // Fades out caption when carousel is about to slide
    $(e.relatedTarget).find('.carousel-caption').hide()
});

// Fades in the caption that is already active and loaded when starting the homepage
$('.item.active').find('.carousel-caption').fadeIn(2000)
```

Animation effect that activates when hovering over the social media icons:

```
// Creates an animation effect for social media links in footer
$('[data-toggle="tooltip"]').tooltip();
//Presents the rubberband animation once tooltip is shown
$('[data-toggle="tooltip"]').on('shown.bs.tooltip', function () {
    $('.tooltip').addClass('animated rubberBand');
})
```

Lightbox effect that presents an image through the modal and sets the width and height of modal.

```
//Creates a lightbox effect by retrieving and displaying an image
var $lightbox = $('#lightbox');

$('[data-target="#lightbox"]').on('click', function(event) {

    //Finds image and get source and alt
    var $img = $(this).find('img'),
        src = $img.attr('src'),
        alt = $img.attr('alt');

    $lightbox.find('img').attr('src', src).attr('alt', alt);
});
```

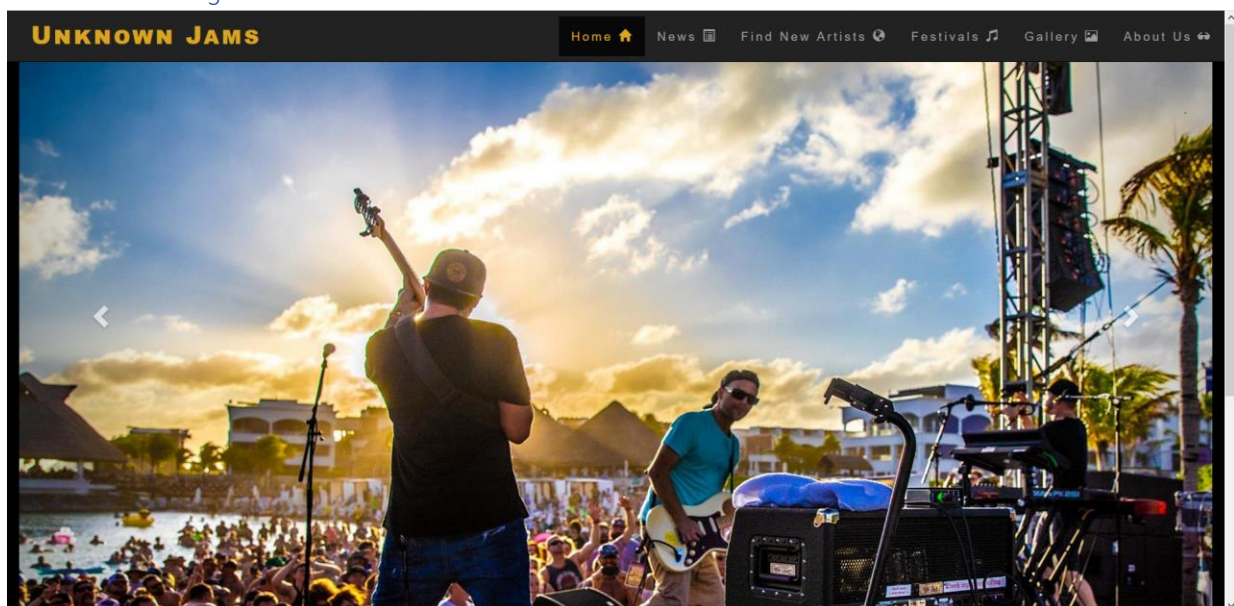
Creates alert for the form in the about page:

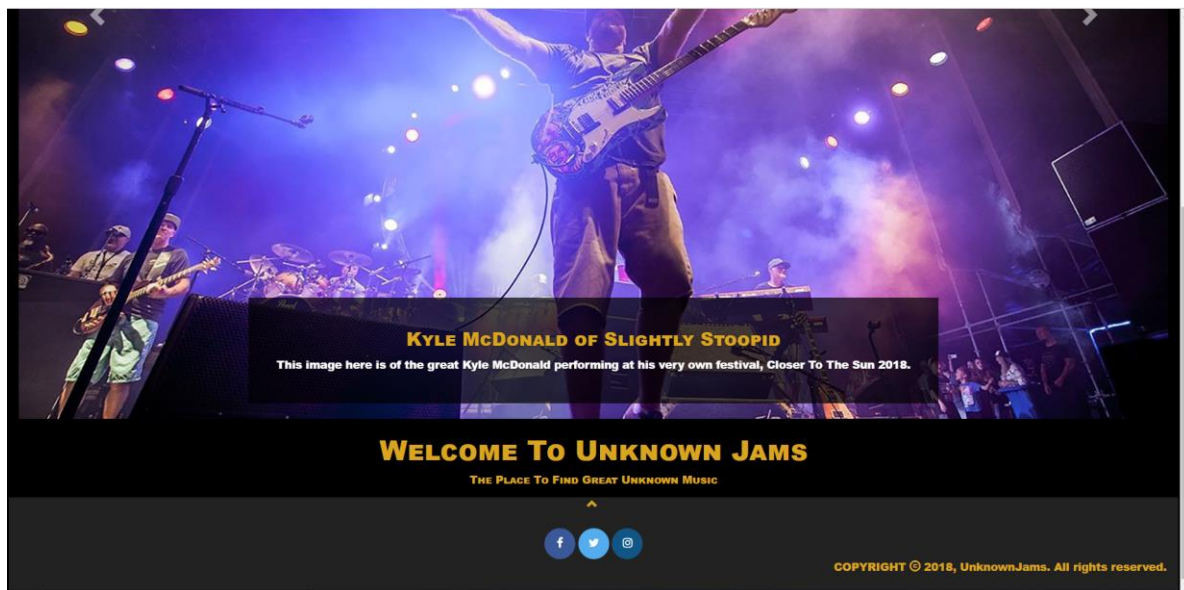
```
// shows alert once the user clicks on the submit button in about page
$('#form-alert').click(function(e){
    e.preventDefault();
    $('.alert').show()
})
```

5.2. Screenshots of the pages of Unknown Jams

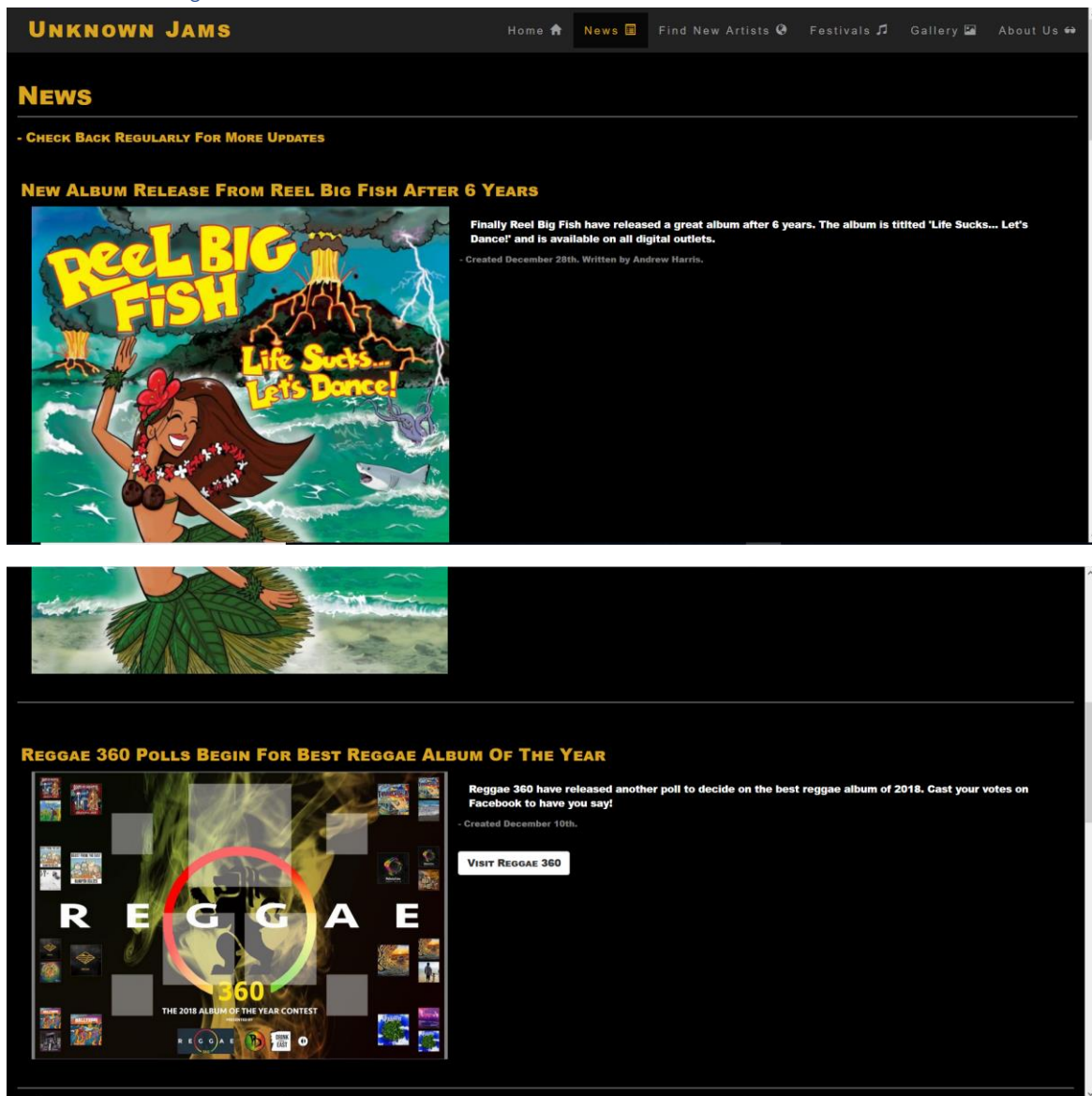
5.2.1. Desktop View

5.2.1.1. Home Page





5.2.1.2. News Page



CALIFORNIA ROOTS RELEASES ITS SECOND LINEUP



California Roots Festival Of Music And Arts has released its second lineup for 2019 and it is looking huge!

- Created December 6th.

[BUY TICKETS](#)

[VISIT FACEBOOK PAGE](#)

REGGAE SUN SKA RELEASE THEIR FIRST LINEUP ANNOUNCEMENT



Reggae Sun Ska is back for another year in France and have released their first lineup. Although only a handful of names have been announced, these artists are great musicians and will surely bring a lot of attention to the festival.

- Created December 5th.

[BUY TICKETS](#)

[VISIT FACEBOOK PAGE](#)



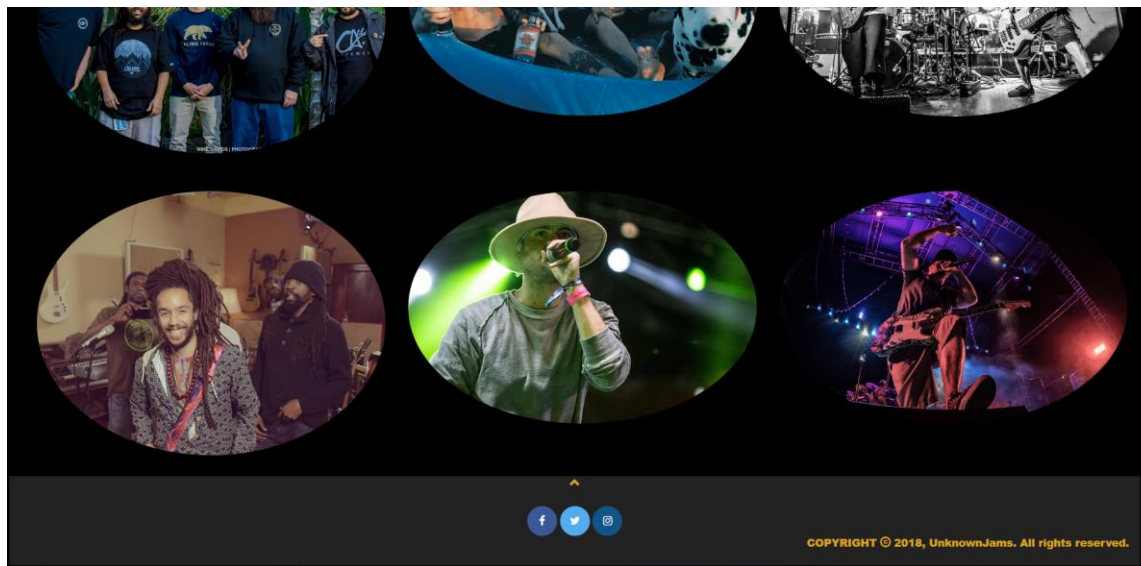
COPYRIGHT © 2018, UnknownJams. All rights reserved.

5.2.1.3. Find New Artists Page

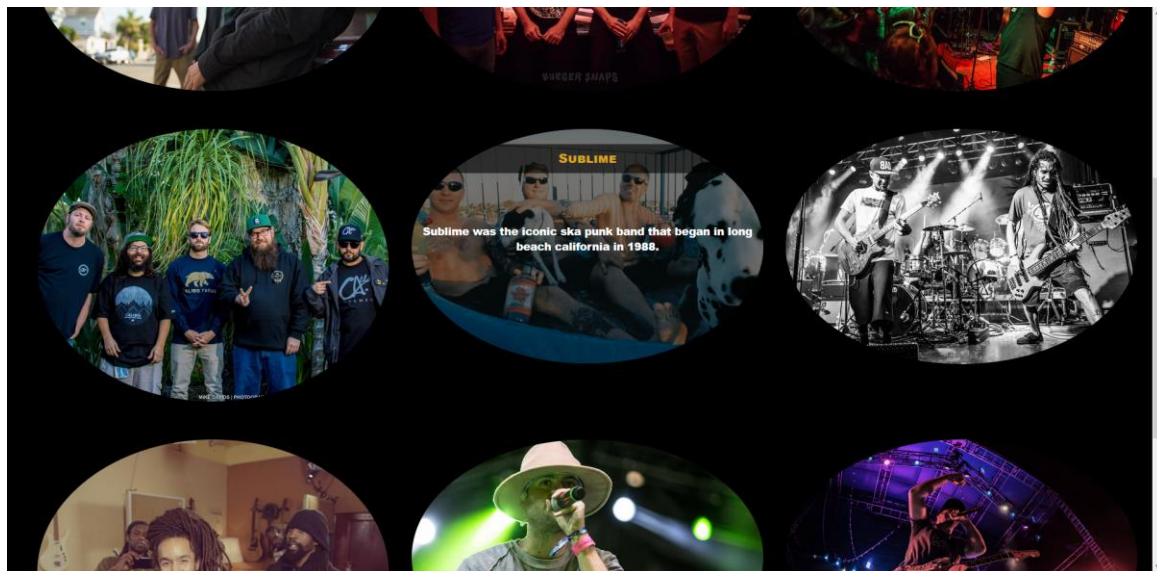
UNKNOWN JAMS
[Home](#)
[News](#)
[Find New Artists](#)
[Festivals](#)
[Gallery](#)
[About Us](#)

FIND NEW ARTISTS

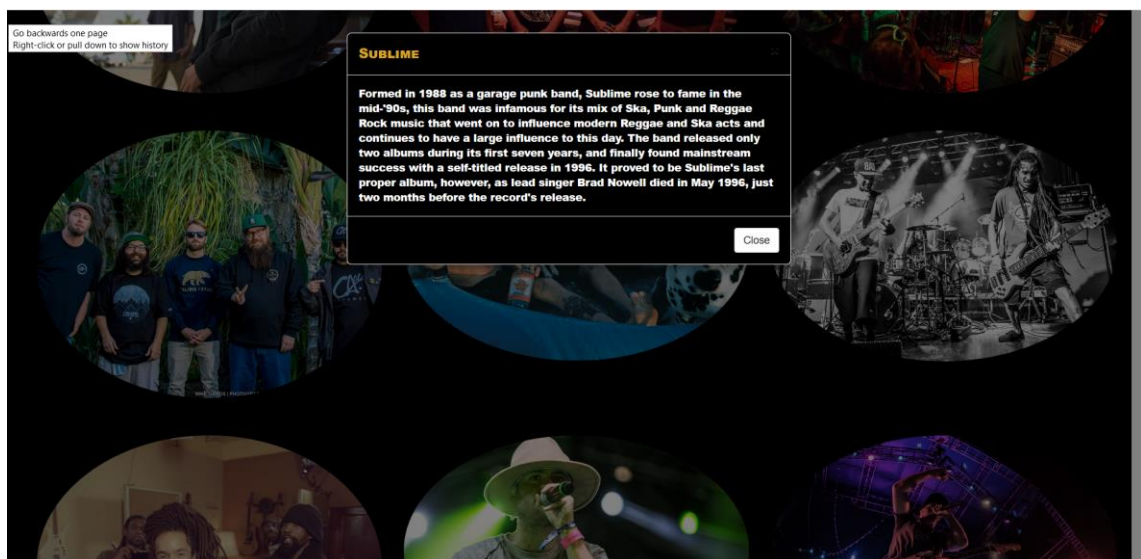
- CHECK BACK REGULARLY FOR NEW ARTISTS



On hover:



When clicked:



5.2.1.4. Festivals Page

UNKNOWN JAMS[Home](#) [News](#) [Find New Artists](#) **Festivals** [Gallery](#) [About Us](#)

FESTIVALS

Europe North-America South-America Australia [Show All](#)

ARISE

ARISE Music Festival is dedicated to its annual gathering. The motivation behind ARISE festival is a firm belief that creating a festival experience which inspires positivity, joy and active engagement in issues of social justice is a call to celebrate the beauty and wonder of this precious life.

[VISIT SITE](#)



ISLAND VIBE

Island Vibe takes places in Minjerribah (North Stradbroke Island) and celebrates Island culture including; art exhibitions, interactive workshops, stalls, circus, eco-food and craft markets. 4 stages are host to over 80 mighty reggae, roots, soul and electronic acts - including Indigenous and Pacific Islander dance and cultural groups.

[VISIT SITE](#)



CLOSER TO THE SUN

Closer to the Sun is truly the full vacation experience. Located in Mexico and complete with 24 hour room service, all-inclusive accommodations, multiple pools, bars, restaurants and a number of top acts performing throughout the day and night!

[VISIT SITE](#)



CALIFORNIA ROOTS

California Roots is approaching its 10th year in 2019 and features many reggae-like artists.

[VISIT SITE](#)



ROTOTOM SUNSPASH

Promoted as one of the best European Reggae Festivals. Rototom Sunsplash takes place in Spain and focuses heavily on music, peace, union, the sea and the alternative life style. It features 11 stages and 7 cultural areas!

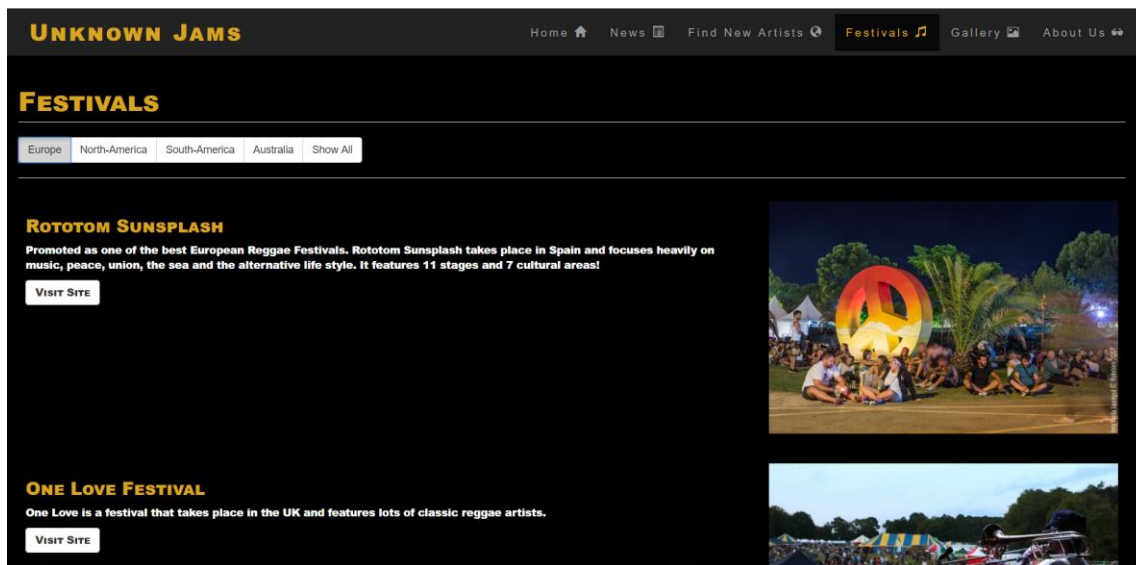
[VISIT SITE](#)



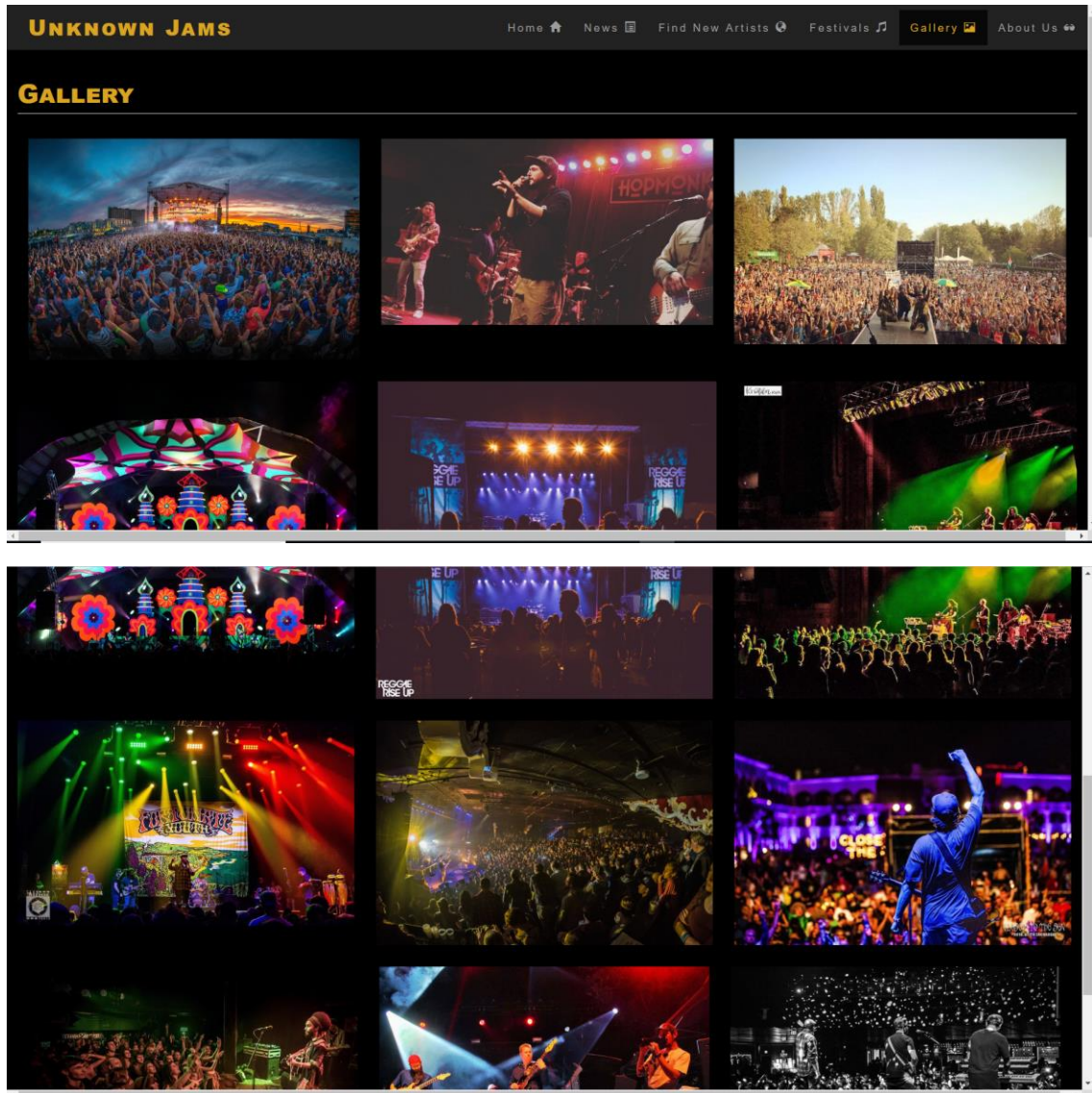
REGGAE RISE UP



Filtered to only show festivals in Europe:



5.2.1.5. Gallery Page





Clicking the image:



5.2.1.6. About Page

UNKNOWN JAMS
[Home](#)
[News](#)
[Find New Artists](#)
[Festivals](#)
[Gallery](#)
[About Us](#)

ABOUT US

WHO ARE WE?

We are an established business known as Unknown Jams and we have a huge passion for any and all music that is or has been influenced by Reggae in some way. We support the culture, the business and the people who are progressing the art.

Focused on Reggae Rock and Roots Reggae, we just want to spread good vibes and bring the people closer to the music, so we have created this site to do exactly that.

WHERE TO FIND US?

47 Lletthri Rd,
Llanelli,
SA14 8ET,
UK

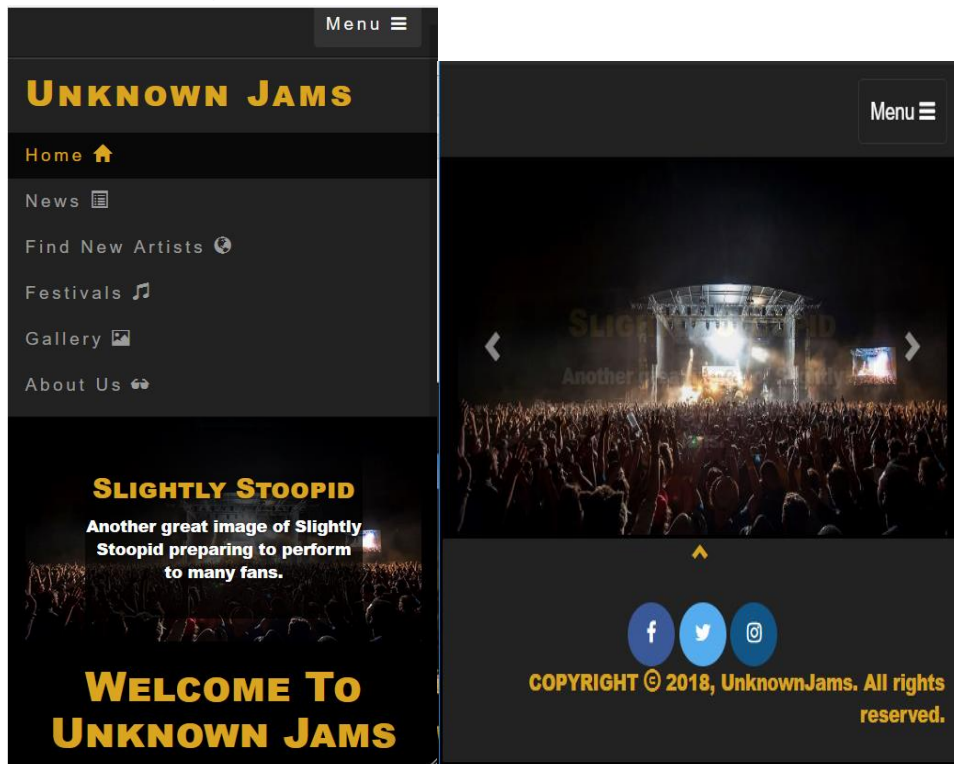
EMAIL US AT:

Unknownjams@gmail.com

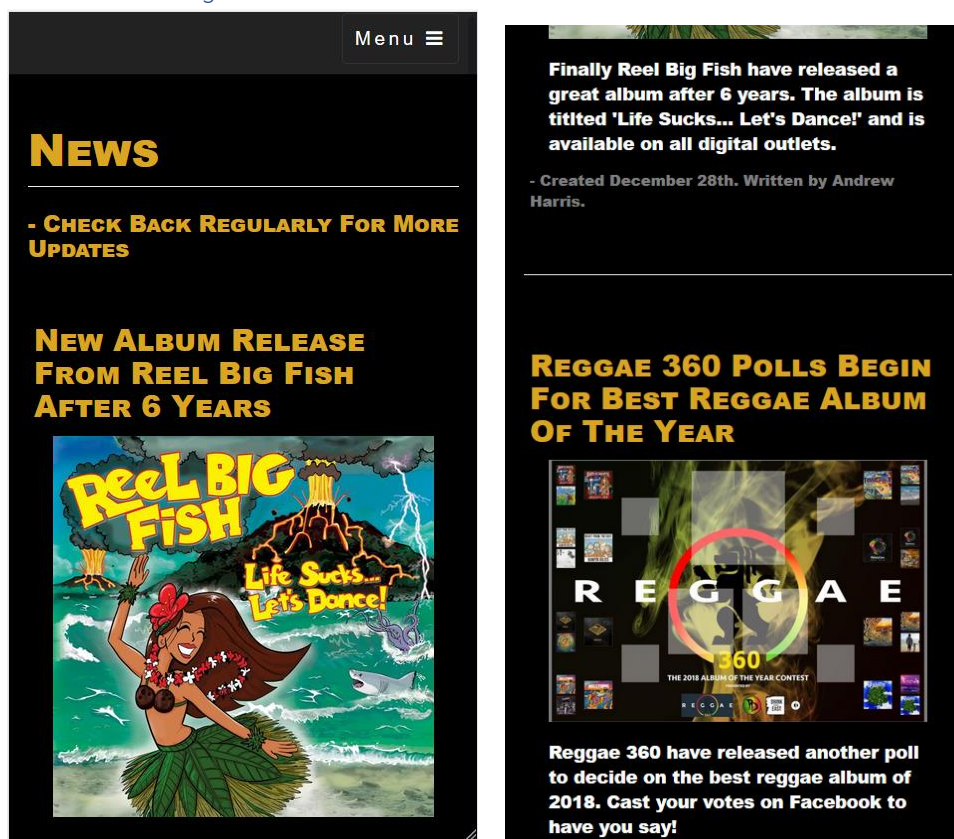
LEAVE US A COMMENT:

5.2.2. Smartphone View

5.2.2.1. Home Page



5.2.2.2. News Page



have you say!
- Created December 10th.

[VISIT REGGAE 360](#)

**CALIFORNIA ROOTS
RELEASES ITS SECOND
LINEUP**



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[BUY TICKETS](#) [VISIT FACEBOOK PAGE](#)

**REGGAE SUN SKA RELEASE
THEIR FIRST LINEUP
ANNOUNCEMENT**



Reggae Sun Ska is back for another

5.2.2.3. Find New Artists Page

Menu ☰

**FIND NEW
ARTISTS**

- CHECK BACK REGULARLY FOR NEW ARTISTS

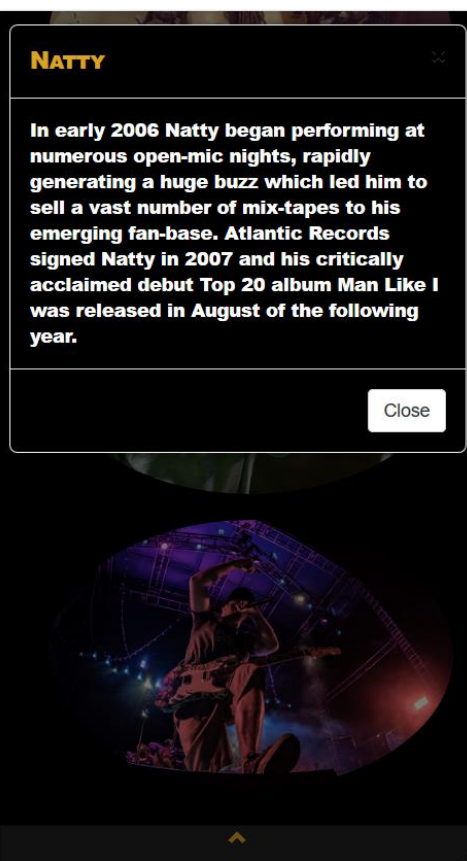







On hover:

On Click:



5.2.2.4. Festivals Page

Menu

FESTIVALS

Europe

North-America

South-America

Australia

Show All

ARISE

ARISE Music Festival is dedicated to its annual gathering. The motivation behind ARISE festival is a firm belief that creating a festival experience which inspires positivity, joy and active engagement in issues of social justice is a call to celebrate the beauty and wonder of this precious life.

VISIT SITE





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VISIT SITE



Filtered to only show festivals in Europe:

Menu

FESTIVALS

Europe

North-America

South-America

Australia

Show All

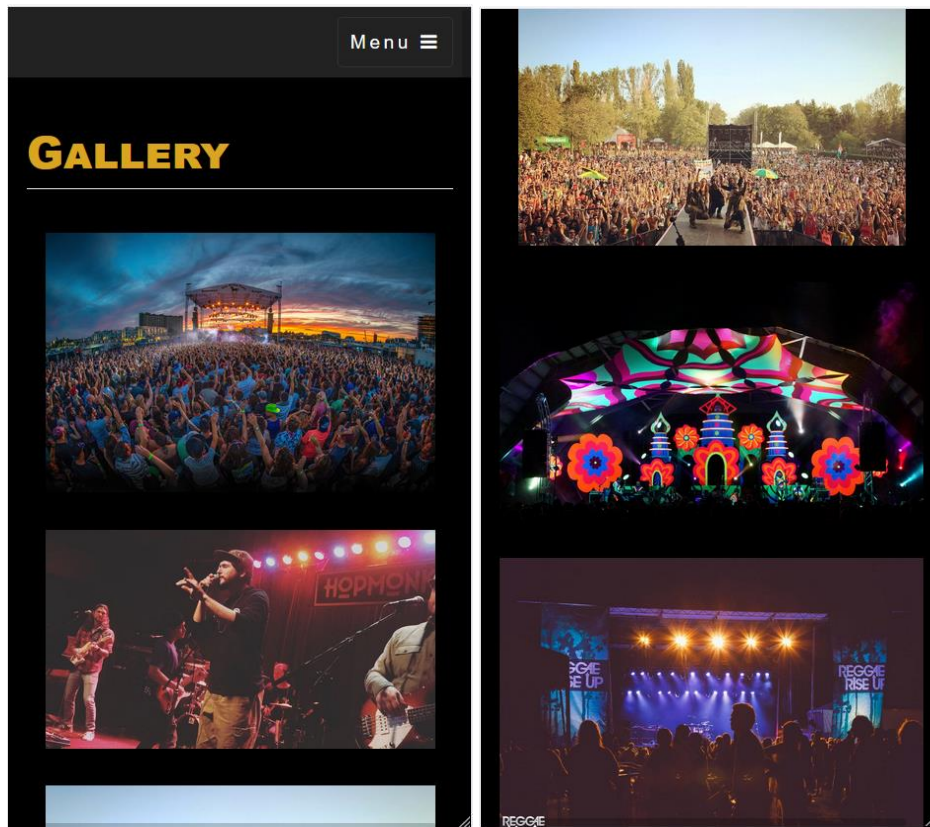
ROTOTOM SUNSPASH

Promoted as one of the best European Reggae Festivals. Rototom Sunsplash takes place in Spain and focuses heavily on music, peace, union, the sea and the alternative life style. It features 11 stages and 7 cultural areas!

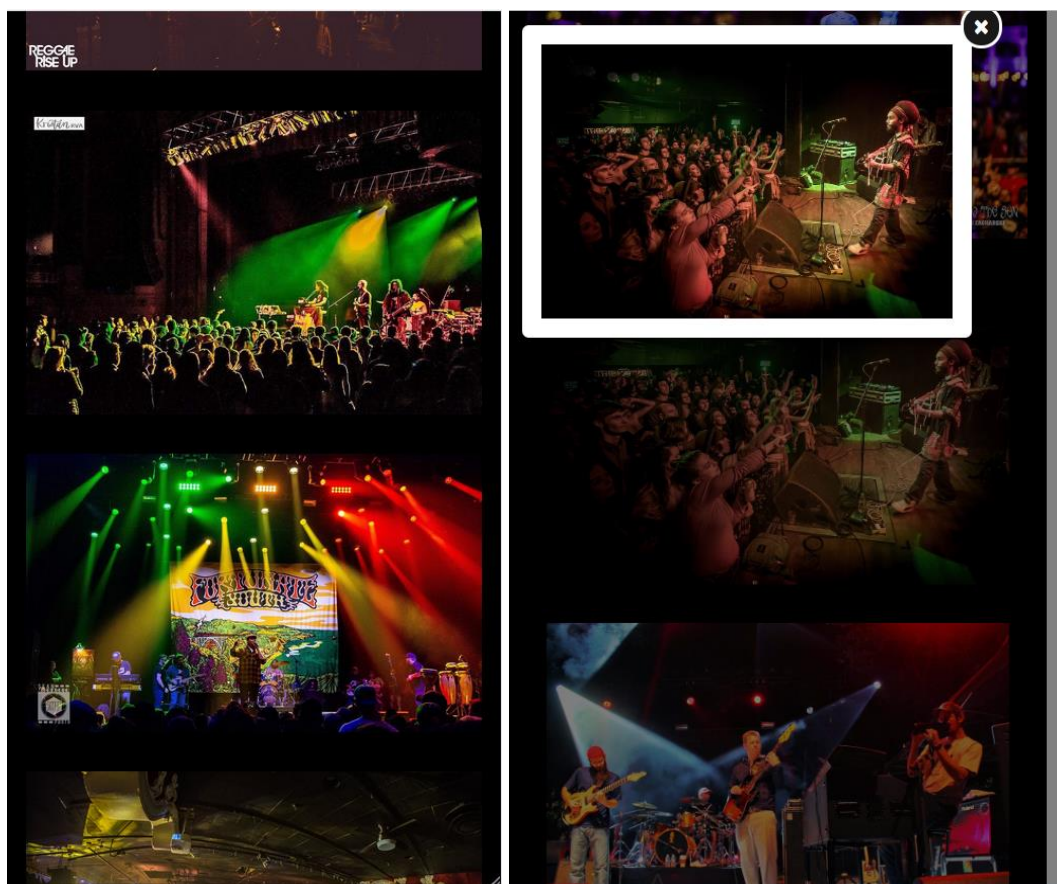
VISIT SITE



5.2.2.5. Gallery Page



When clicked:



5.2.2.6. About Page

Menu ☰

ABOUT Us

Who Are We?

We are an established business known as Unknown Jams and we have a huge passion for any and all music that is or has been influenced by Reggae in some way. We support the culture, the business and the people who are progressing the art. Focused on Reggae Rock and Roots Reggae, we just want to spread good vibes and bring the people closer to the music, so we have created this site to do exactly that.

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47 Llethri Rd,
Llanelli,
SA14 8ET,
UK

EMAIL Us AT:
Unknownjams@gmail.com

LEAVE Us A COMMENT:

First Name

Last Name

Enter Email

Write Comment...

SUBMIT COMMENT

↑

f t i

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6. Evaluation

6.1. Application Verification/Validation

I have validated my main CSS file using; <https://jigsaw.w3.org/css-validator> and my HTML file for the home page using; <https://validator.w3.org> I found three errors within my CSS file and fourteen errors within my HTML file. Once I was made aware of these errors I was able to make the necessary changes to the CSS and HTML file until no more errors were present (see Appendix B.).

I have carried out some basic functionality tests on the scripts in the application (see Appendix C.). Overall the scripts worked as expected, however I have problems with the positioning of the lightbox effect.

I also tested the usability and compatibility of my application using the methods discussed by Software Testing Help [10]. Testing the usability of the application involved:

- Checking all the links are clear and direct the user to the correctly.
- Ensuring consistency throughout the entire application.
- Ensuring easy-to-understand instructions are provided to tasks that might not seem obvious.

Upon completing the usability tests, I am satisfied with the outcome and cannot spot any problems.

Testing the compatibility of the application involved:

- Testing the application on different browsers like; Chrome, Firefox and Edge.
- Testing the application on mobile devices.

From the compatibility tests I can see that the script creating the lightbox effect isn't working as intended on Edge or Firefox (see Appendix D.), after further inspection, I was able to fix the problem with the lightbox by fixing the errors within the HTML and changing the href from the image URL to '#'. Another problem occurred within Edge when hovering over images within the 'Find New Artists' (see Appendix E.). I also came across a problem within the carousel as the navigation buttons appear too large when in mobile view, however I was also able to fix this problem by checking for errors within the HTML. Despite some problems with the browsers and certain screen resolutions, I was able to overcome most of these problems and get the application functioning on all major browsers, as well as making the application fully compatible on a variety of viewports.

6.2. Overall Evaluation

Overall, I am happy with my application. All six pages are responsive to a variety of different viewports, although the content could have a more structured layout when viewing the application on smaller screens. Keeping the application consistent (same font style, colours, sizes etc.) has greatly benefited the overall design. The application works with all major browser and I am happy with the amount of content I have included, although more information could be added to the news, festivals and artists page.

6.3. Future Improvements

I am generally satisfied with the overall application, however there are some changes I would make to the application given more time.

Adding a script to randomise the content related to the artists within the 'Find New Artists' page each time it's refreshed would be a useful feature to include as it would likely increase the chances of users returning to find more artists. Including a way to navigate between the images when in the lightbox would greatly benefit the usability of the app. Another improvement that could benefit the application is adding a caption within the lightbox describing the images, this would allow users to gain a better understanding of the image.

Other possible improvements involve:

- Moving the title of the application in mobile view so it's always present.
- Including a filter to filter the content when finding new artists.
- Add multiply pages within the news page to display more content.
- Add PHP to get the comments section working.
- Repositioning lightbox for smaller screen resolutions.

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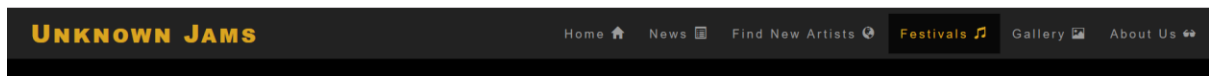
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Tools hero (no date) MoSCoW Method [WWW Document]. Available at: <https://www.toolshero.com/project-management/moscow-method/> (Accessed: 07/01/2018)

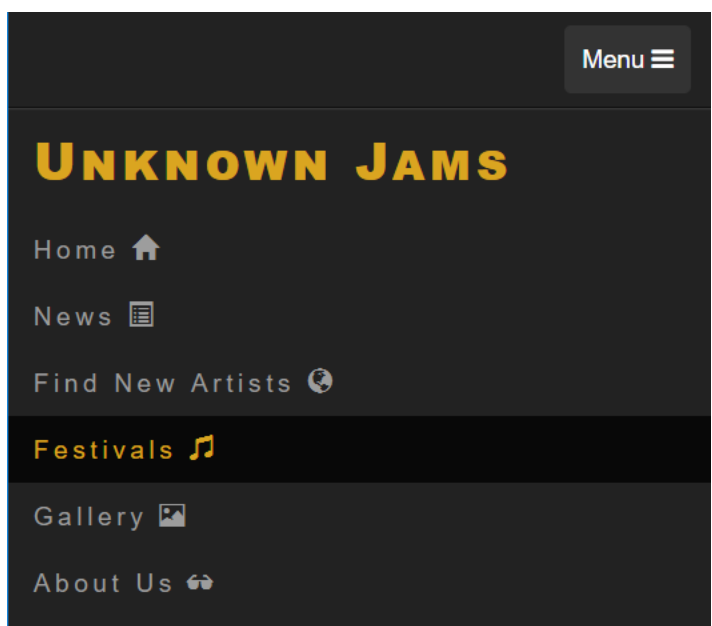
9. Appendices

Appendix A.

Desktop view:

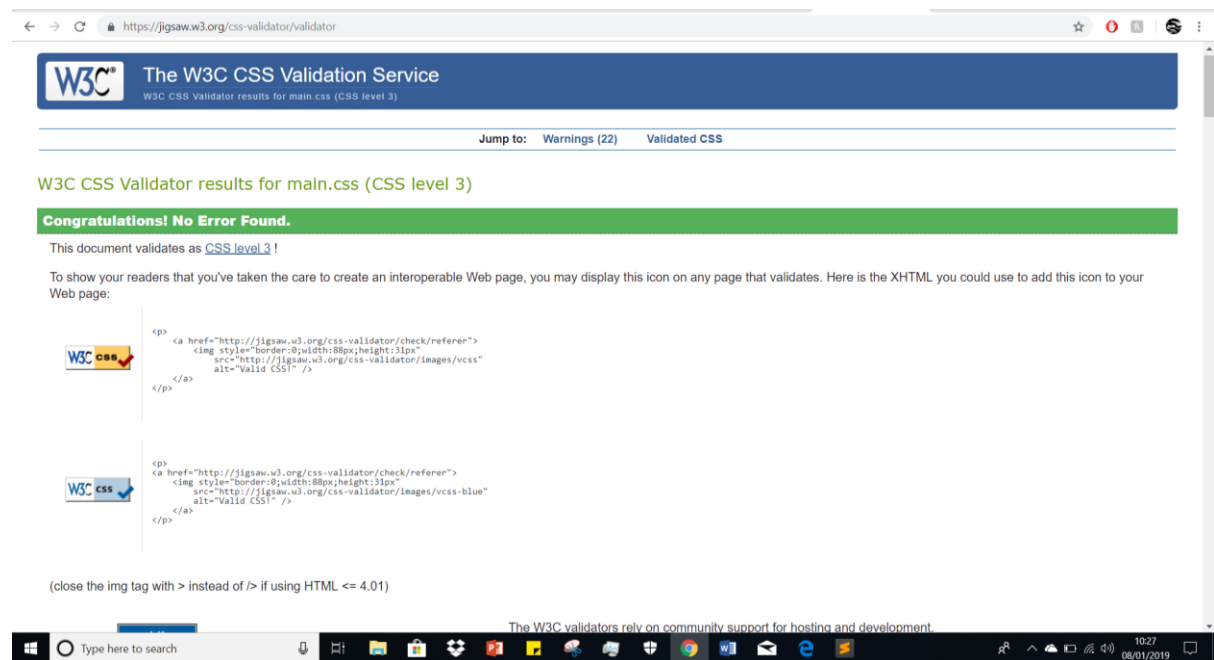


Smartphone view:



Appendix B.

CSS Validator:



The screenshot shows the W3C CSS Validation Service interface. The browser address bar displays <https://jigsaw.w3.org/css-validator/validator>. The page header includes the W3C logo and the title "The W3C CSS Validation Service". Below the header, there are links for "Jump to: Warnings (22) Validated CSS". The main content area displays "W3C CSS Validator results for main.css (CSS level 3)". A green banner states "Congratulations! No Error Found." Below this, it says "This document validates as CSS level 3!". A paragraph explains that to show readers the page is interoperable, one can display a validation icon. Two icons are shown: a yellow one for "Valid CSS!" and a blue one for "Valid CSS!". The HTML code for these icons is provided. A note at the bottom says "(close the img tag with > instead of /> if using HTML <= 4.01)". The footer mentions "The W3C validators rely on community support for hosting and development." The Windows taskbar at the bottom shows the date as 08/01/2019 and the time as 10:27.

W3C CSS Validator results for main.css (CSS level 3)

Congratulations! No Error Found.

This document validates as **CSS level 3!**

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:

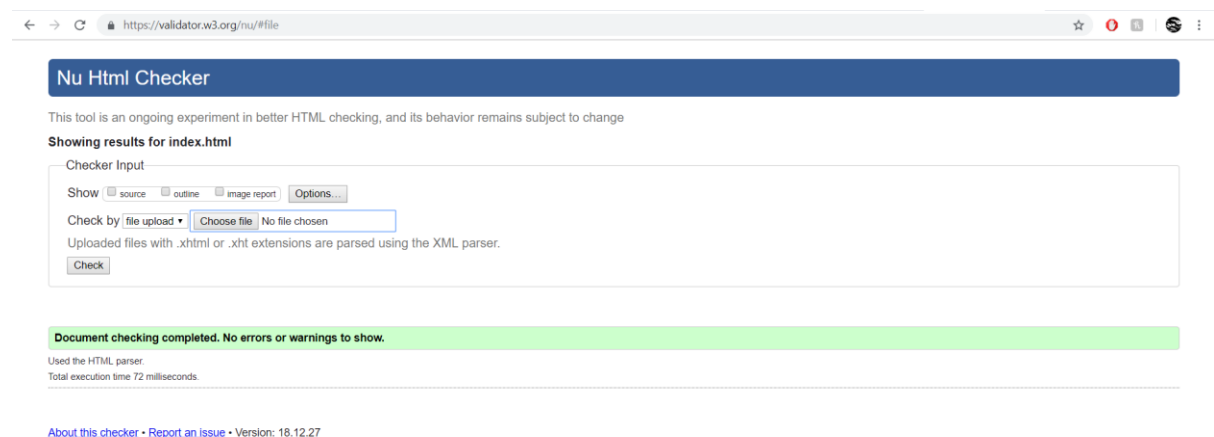
```
<p>  
<a href="http://jigsaw.w3.org/css-validator/check/referer">  
  
</a>  
</p>
```

```
<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)

The W3C validators rely on community support for hosting and development.

HTML validator:



The screenshot shows the Nu Html Checker interface. The browser address bar displays <https://validator.w3.org/nu/#file>. The page header includes the title "Nu Html Checker". Below the header, it says "This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change". The main content area displays "Showing results for index.html". Under "Checker Input", there are tabs for "source", "outline", "image report", and "Options...". The "Check by" dropdown is set to "file upload", and the "Choose file" button is highlighted. Below this, it says "Uploaded files with .xhtml or .xht extensions are parsed using the XML parser." and a "Check" button. A green banner states "Document checking completed. No errors or warnings to show." Below this, it says "Used the HTML parser." and "Total execution time 72 milliseconds." The footer includes links for "About this checker" and "Report an issue", and the version number "Version: 18.12.27".

Nu Html Checker

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

Showing results for index.html

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by: file upload No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 72 milliseconds.

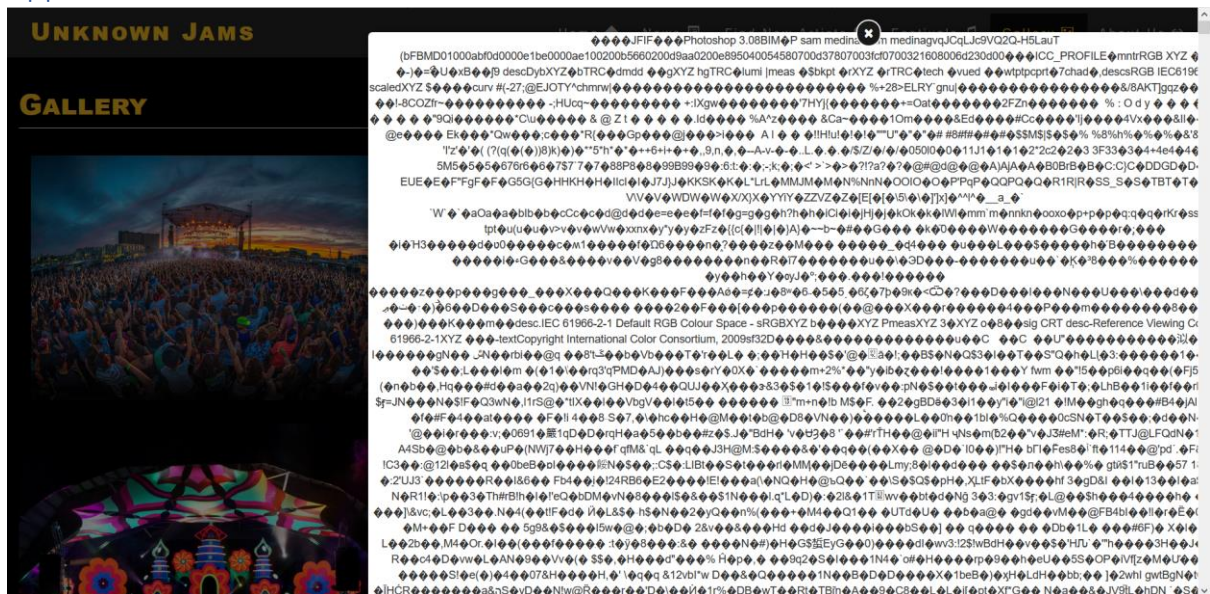
[About this checker](#) • [Report an issue](#) • Version: 18.12.27

Appendix C.

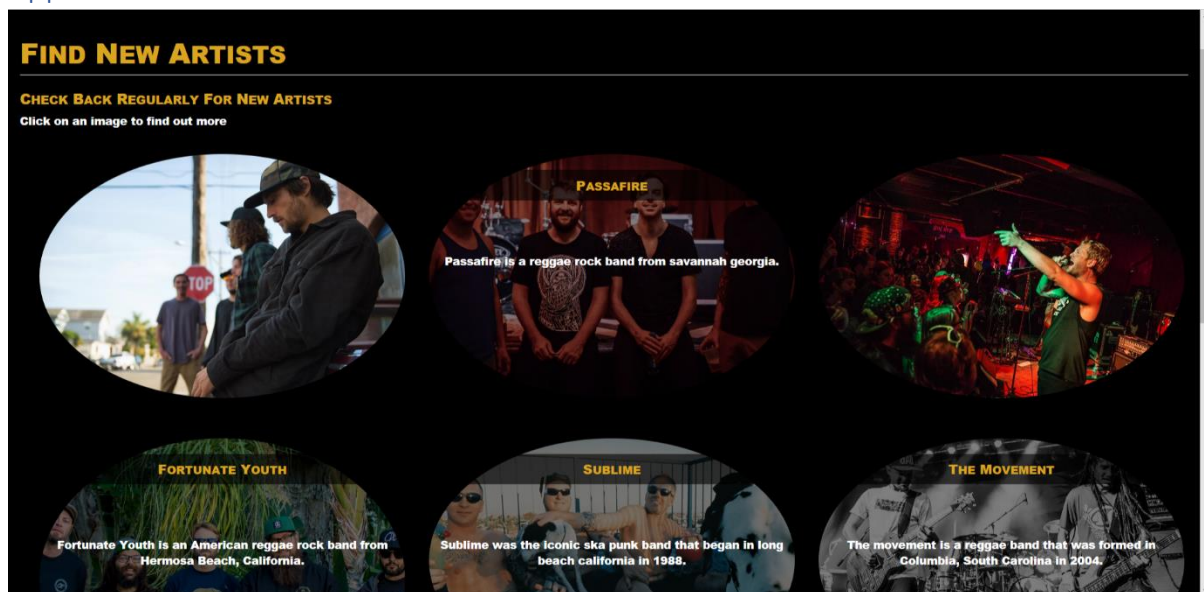
Test Plan for scripts within Unknown Jams

Functionality of script	Expected Outcome	Actual Outcome
Directs user to the top of the page with an animation.	Once the user has clicked the arrow located in the footer, the user should be directed to the top of the page with an incline motion, instead of appearing at the top of page instantly.	All pages contain the arrow which works successfully and creates an incline motion directing user to the top.
Filters out the content to only show what the user has selected.	Provides the user with the option to filter out the content based on the festivals location and active buttons should appear highlighted as well as provide the option to show all, show all should also be active upon entering the page.	Buttons work as expected and filters out the festivals accurately.
Animates the caption so it fades in when a new image within the carousel is shown.	The caption should fade in when each image is shown and when entering the page.	The animation effect of the caption fading in works as intended.
Creates an animation effect for the tooltips.	The animation is supposed to replicate a rubber band effect on the tooltip when hovering over the icons within the footer. This should work on all pages.	The rubber band effect is applied to the tooltip on all pages.
Creates alert when user clicks on the submit button.	A message notifying the user that the form is under construction and is currently not working should appear when the user clicks submit within the about page.	Message is successfully displayed.
Creates a lightbox effect to view the images within the gallery.	When the user clicks on the image, the image should increase in size and become the main element of the application, allowing the user to inspect the images closer.	User can easily click on the image to open the modal and click off the image or the cross symbol to exit the modal. The modal successfully presents the image in a larger view. However, the positioning of the modal in smartphone view is not centred to the screen.

Appendix D.

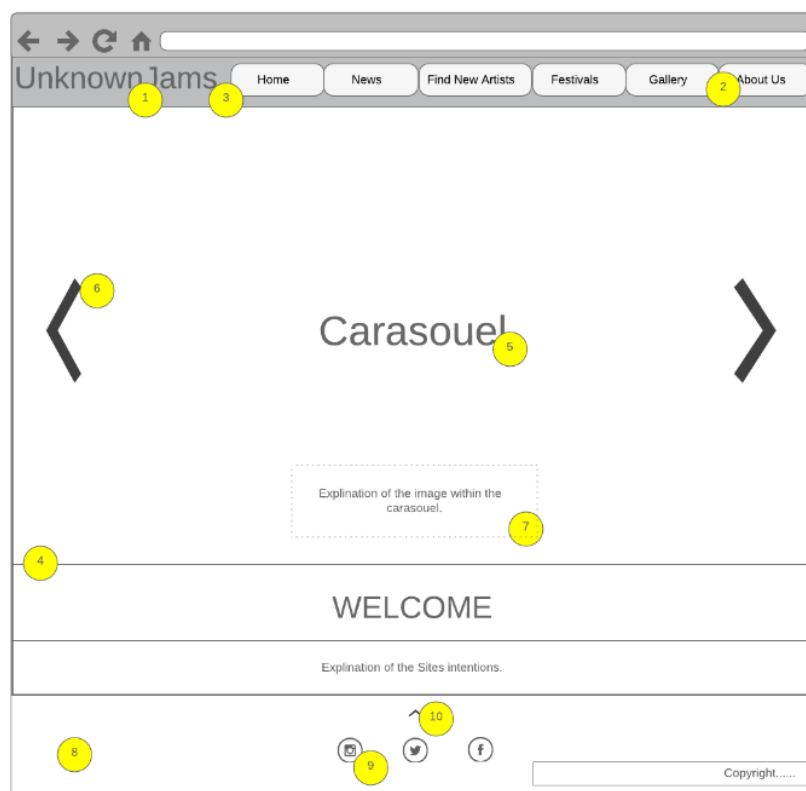


Appendix E.



Appendix F.

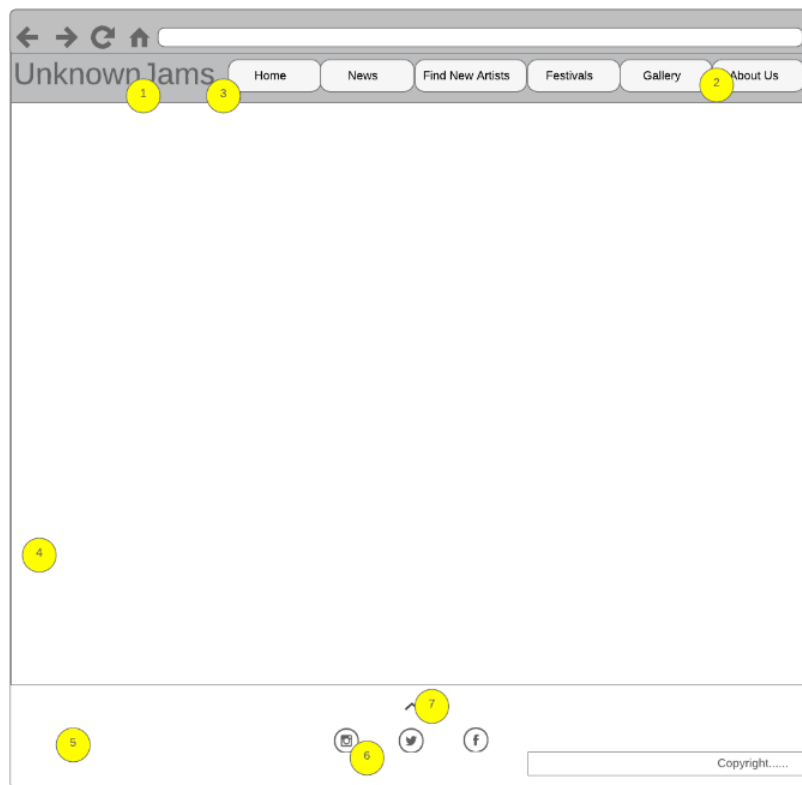
Wireframe for landing page:



Description

1. The header of the website. The header is included within every page and is afixed with the navigation.
2. The buttons used to navigate the website. This is included within the header.
3. The navigation panel.
4. The main content section of the website.
5. The carasouel used to display a slide of images.
6. Navigation controls for the carasouel to navigate between images.
7. Explanation of the images within the carasouel that fades in with the image.
8. The footer used within the website. The footer is included within every page.
9. Icons of the social media accounts associated with the website. Hyperlinks are included with the Icons.
10. Arrow which directs user to the top of page.

Wireframe for inside page:



Description

1. The header of the website. The header is included within every page and is afixed with the navigation.
2. The buttons used to navigate the website. This is included within the header.
3. The navigation panel.
4. The main content section of the website.
5. The footer used within the website. The footer is included within every page.
6. Icons of the social media accounts associated with the website. Hyperlinks are included with the Icons.
7. Arrow which directs user to the top of page.

Site map:

