

**UNIVERSITY OF NORTHUMBRIA
School of Computing, Engineering and Information Sciences
Applied Computing BSc (Hons)**

Name: Bikesh Kawan
Student Number: 14037560
Module Tutor : Kay Rogage
Module Title: Object Oriented and Web Programming
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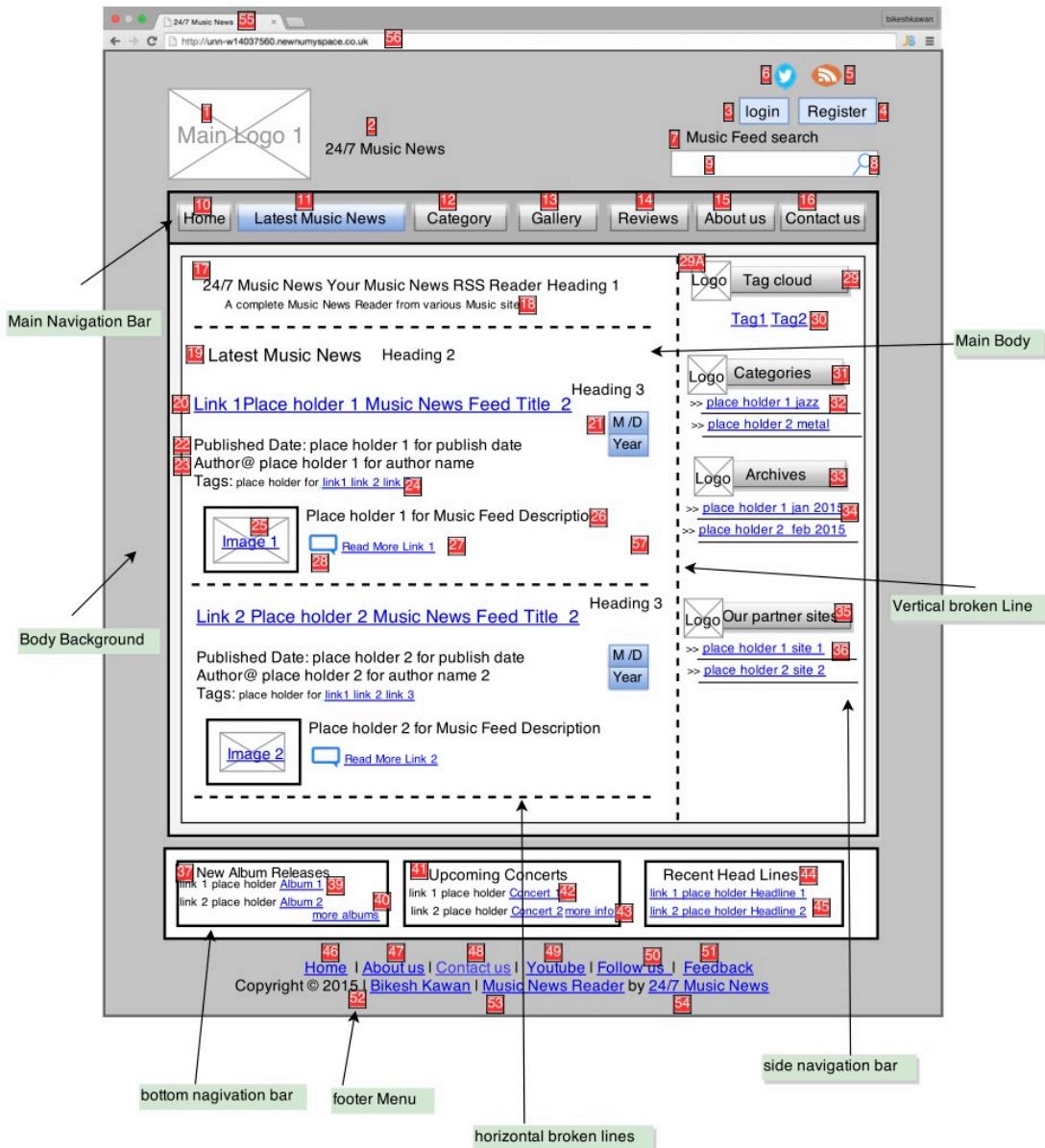
Introduction

This report will explore how web system has incorporated usability and accessibility good practice. Firstly, the wireframes with annotation, final page design and site map will be presented. Then, report will discuss how I have followed best practices of usability and accessibility guidelines introduced by WCAG 2.0. At the end, I have mentioned some compromises I have had to make in order to integrate the expert advice.

Wire Frame

1. Index page/ Main Home page

Wireframe design



Annotations for Index.php- Homepage

Footnote	Label	Description	Control Type	Content Type
1	Website Logo	Clicking on this logo brings users to the main home page from any location	Image (Navigation)	Image, size: 264 X400
2	Company Name	This is the name of the company. Shall link to the home page of the website from any location within the site	Text (Navigation)	Text, size: 2em
3	Login	Shall link to the login page for user to login to system	Button (Navigation)	Text, size: 0.93em
4	Register	Shall link to register page for user to registration system	Button (Navigation)	Text, size: 0.93em
5	RSS Feed logo	Shall link to RSS feed of the website	Image (Navigation)	Image, size: 63 X67
6	Twitter logo	Shall link to twitter profile of company	Image (Navigation)	Image, size: 63 X67
7	Search Title Name	Name of Search Box	Image	Image Size: 260 X21
8	Search icon	Clicking on this icon will go to search page	Image link	Image, Size: 35 X23
9	Search box	Search text should be typed here	Form input	Text input
10	home	Shall link to home page of the website from any location within the site	Text (Navigation)	Text, size: 2em
11	Latest Music News	Shall link to main home page of the website from any location within the site. The page shall contain all the lists of latest music news feeds.	Text (Navigation)	Text, size: 2em
12	Category	Shall link to category page of the website from any location within the site. The page shall contains category of music news	Text (Navigation)	Text, size: 2em
13	Gallery	Shall link to gallery page of the website from any location within the site. The page shall contains gallery of images of music artist	Text (Navigation)	Text, size: 2em
14	Reviews	Shall link to review page of the website from any location within the site. The page shall contains reviews of music news	Text (Navigation)	Text, size: 2em
15	About us	Shall link to about us page of the website from any location within the site. The page shall contains about the company of the website.	Text (Navigation)	Text, size: 2em
16	Contact us	Shall link to contact us page of the website from any location within the site. The page shall contains contact information of the company.	Text (Navigation)	Text, size: 2em
17	Heading 1 (H1)	Title for the website in main content area	Text	Text, size: 2em
18	Paragraph for H1	Short paragraph about the website	Text	Text, size: 2em
19	Heading 2	Title of the web page which displays list of all press release article.	Text	Text, Size : 1.5em
20	Press release title	Title of the press release article. Shall link to parent website to display the full details of the press release.	Text (Navigation)	Text font-size : 1.17em
21	Image icon	Publication date of the press release article	Image Size: 43 X10	Text, Font-size: 0.93em
22	Published Date	Publication date of the press release article	Text	Text, Font-size: 0.93em
23	Author	Author name of the press release article	Text	Text, Font-size: 0.93em
24	Tags	Categories of the press release article. Clicking on the tag links will open the category page.	Text (Navigation)	Text, Font-size: 0.93em
25	Image	Image the press release article. Clicking on the image will open the image in original size.	Image (Link)	Image, Image Size:108px/108px
26	Descriptions	Short description for the press release article	Text	Text, Font-size: 0.93em
267	Read More	Shall link to display full description of the article	Text (Link)	Text, Font-size: 0.93em
28	Read more icon	Image icon for Read more link	Image Icon	Image, size:22px/17px
29A	Side bar logo	Logo for side bar Navigation	Image	Image, size:192 X192
29	Tag Cloud	Side-bar Navigation Title for tags	Text	Text, font-size : 2em
30	Tags titles	Shall link to the display the full description of tag titles	Text (Link)	Text, Font-size: 0.93em

31	Category	Side-Bar Navigation Title for Categories of the articles	Text	Text, font-size : 2em
32	Article categories	Shall link to the category page of the article within website	Text (Link)	Text, Font-size: 0.93em
33	Archives	Side-Bar Navigation Title for the archive news article	Text	Text, font-size : 2em
34	Archive list	List of archived new article. Shall link to archive webpage	Text (Link)	Text, Font-size: 0.93em
35	Partner sites	Side-Bar Navigation Title for the Partner sites	Text	Text, font-size : 2em
36	Site lists	List of partner sites. Shall link to open parent sites.	Text	Text, Font-size: 0.93em
37	New Album Release	Bottom-Navigation bar title for album lists	Text	Text, font-size : 2em
38	Album lists	List of albums release. Shall link to album page of artist	Text (Link)	Text, Font-size: 0.93em
40	More info	Shall link to album page of the website	Text (Link)	Text, Font-size: 0.93em
41	Upcoming Concerts	Bottom-Navigation bar title for upcoming concerts list	Text	Text, font-size : 2em
42	Concert list	List of concerts. Shall link to concert page of artist	Text (Link)	Text, Font-size: 0.93em
43	More info	Shall link to concert page of the website	Text (Link)	Text, Font-size: 0.93em
44	Recent Headlines	Bottom-Navigation bar title for Headline of article	Text	Text, font-size : 2em
45	Headline lists	Title of the articles. Shall link to display full details of article	Text (Link)	Text, Font-size: 0.93em
46	Home	Footer menu: Shall link to home page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
47	About us	Footer menu: Shall link to home page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
48	Contact us	Footer menu: Shall link to contact page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
49	Youtube	Footer menu: Shall link to youtube channel of company from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
50	Follow us	Footer menu: Shall link to facebook page of the company from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
51	Feedback	Footer menu: Shall link to contact page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
52	Copyright content	Footer menu: copyright content and current year with name of website developer. Shall link to profile of developer	Text (Navigation)	Text, Font-size: 0.93em
53	Music news reader	Footer menu: Shall link to home page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
54	24/7 music news	Footer menu: Company name. Shall link to about us page of the website from any location within the site	Text (Navigation)	Text, Font-size: 0.93em
55	Title of document	Displays title of the web page in the browser toolbar	Text	Browser default
56	Page address	HTTP address of the webpage	Text	Browser default

Final Design for Homepage

24/7 Music News

http://unn-w14037560.newnumyspace.co.uk

bikeshkawan

Twitter RSS

Login Register

MUSIC FEED SEARCH

24/7 Music News

Home Latest Music News Category Gallery Reviews About us Contact us

Music News Your Music News RSS Reader

A complete Music News Reader from various Music site.

Latest Music News

Neil Young debuts new track 'Rock Starbucks'

Published Date: Tue, 8:02 am GMT, May 26, 2015
author@ Noise11
Tags: JAZZ, HIP HOP, Rock

Neil Young has previewed a new song titled Rock Starbucks at the Democracy Now website.

Read More....

Dave Grohl joins Paul McCartney in London

Published Date: Tue, 7:52 am GMT, May 26, 2015
author@ VVN Music
Tags: JAZZ, HIP HOP, Rock

Dave Grohl joined Paul McCartney at Londons 02 Arena on Sunday night for I Saw Her Standing There.

Read More....

Tag Cloud

Dave Grohl joins Paul McCartney in London

Categories

Rock, Jazz, Hip-Hop, Pop, Metal, Alternatives

Archives

January 2015, February 2015, March 2015, April 2015

Our Partner Sites

MusicNews

New Album Releases

Metallica, AC/DC, The Script

More albums

Upcoming Concerts

Metallica, The Script, Iron Maiden

more info

Recent Head Lines

Dave Grohl joins Paul McCartney in London

Home | About us | Contact us | Youtube | Follow us | Feedback

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2. Logged in User's home page

Wireframe design

Main Logo 1

Welcome! user Logout

24/7 Music News

Music Feed search

Home My Feeds Latest Music News Gallery Reviews About us Contact us

24/7 Music News Your Music News RSS Reader Heading 1
A complete Music News Reader from various Music site

Latest Music News Heading 2

Link 1 Place holder 1 Music News Feed Title 2

Published Date: place holder 1 for publish date
Author@ place holder 1 for author name
Tags: place holder for link1 link 2 link 3

Image 1 Place holder 1 for Music Feed Description

Read More Link 1

check All save Selection M / D Year

Link 2 Place holder 2 Music News Feed Title 2

Published Date: place holder 2 for publish date
Author@ place holder 2 for author name 2
Tags: place holder for link1 link 2 link 3

Image 2 Place holder 2 for Music Feed Description

Read More Link 2

check All save Selection UnCheck All Check All

New Album Releases

Upcoming Concerts

Recent Head Lines

Home | About us | Contact us | Youtube | Follow us | Feedback
Copyright © 2015 | Bikesh Kawan | Music News Reader by 24/7 Music News

Annotations for Logged in User's home page:

Footnote	Label	Description	Control Type	Content Type
1	Welcome user	Name of the user with greeting. Shall link to profile page of the user	Text(Navigation)	Text, Font-size: 0.93em
2	Logout	Shall link to the logout page of the website	Button (Navigation)	Text, Font-size: 0.93em
3	My Feeds	Shall link to MyFeed page of the website from any location within the site.	Text (Navigation)	Text, Font-size: 2em
4	My Accounts	Side bar Navigation title for user accounts	Text	Text, Font-size: 2em
5	My Archives	Side bar Navigation title for user's archived articles	Text	Text, Font-size: 2em
6	Archive list	Archive list of the user's saved articles. Shall link to user's archived page	Text	Text, Font-size: 0.93em
7	Search title	Title of the search bar for logged in user	Image	Image , size: 260 X18
8	Check box	Checking on this check box shall check all the articles	Form checkbox	Check, default size
9	Save Selection	Clicking on this button shall save the checked articles and redirect to my feed page of the website	Form input type	Submit:text, Font-size: 0.93em
10	Check All	Label for check box	Text	Text, Font-size: 0.93em
11	Check box	Check box to select corresponding single press articles	Form checkbox	Check, default size
12	Save	Clicking on this button shall save corresponding checked articles and redirect to my feed page of the website	Form submit button	Text, Font-size: 0.93em
13	Saved icon	Shall represents all ready saved press articles of the user	Image	Image, size: 128 X188
14	Save Selection	Clicking on this button shall save the checked articles and redirect to my feed page of the website	Form submit button	Text, Font-size: 0.93em
15	Uncheck all	Clicking on this button with will uncheck all the checked articles	Form submit button	Text, Font-size: 0.93em
16	Check All	Clicking on this button with will check all the press articles	Form button	Text, Font-size: 0.93em
17	My Saved Feeds	Shall link to the my feed page of the website	Text(Navigation)	Text, Font-size: 0.93em

Final Design for user home page

The screenshot shows a dark-themed web application for managing music news feeds. At the top, there's a header with a logo featuring a hand with wings and gears, the text "24/7 Music News", and social media links for Twitter and RSS. A welcome message "Welcome !! Peter Jones" and a "Logout" button are also present. The main navigation menu includes Home, My Feeds, Latest Music News, Gallery, Reviews, About us, and Contact us.

The central content area displays two news items:

- Neil Young debuts new track 'Rock Starbucks'**
Published Date: Tue, 8:02 am GMT, May 26, 2015
author@ Noise11
Tags: JAZZ, HIP HOP, Rock
A thumbnail image of Neil Young playing guitar is shown, along with a "Read More...." link and save buttons.
- Dave Grohl joins Paul McCartney in London**
Published Date: Tue, 7:52 am GMT, May 26, 2015
author@ VVN Music
Tags: JAZZ, HIP HOP, Rock
A thumbnail image of Paul McCartney is shown, along with a "Read More...." link and save buttons.

To the right, there are several sidebar modules:

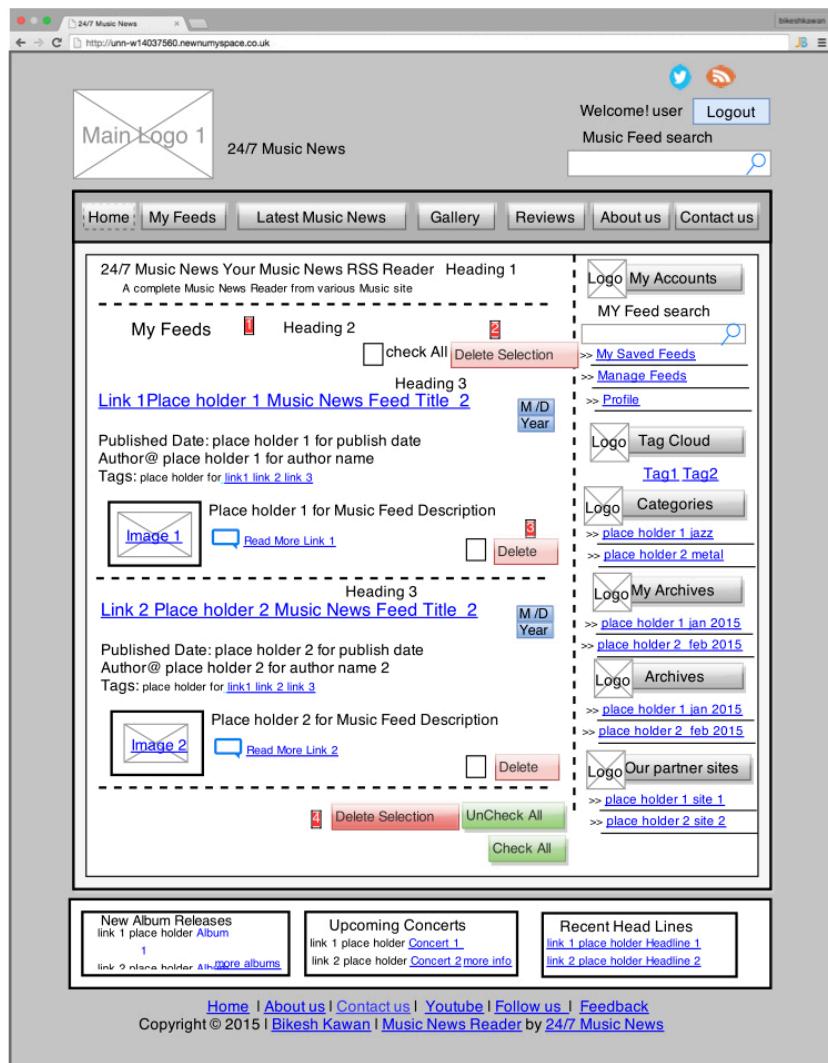
- MY FEED SEARCH**: Includes a search bar and links for "My Saved Feeds", "Manage Feeds", and "Profile".
- Tag Cloud**: Shows tags like Metallica, Rock, and Metal.
- Categories**: Shows categories like Rock and Metal.
- My Archives**: Shows archive links for January 2015 and February 2015.
- Archives**: Shows archive links for January 2015 and February 2015.
- Our Partner Sites**: Shows a link to MusicNews.

At the bottom, there are three footer boxes: "New Album Releases" (listing Metallica, AC/DC, The Script), "Upcoming Concerts" (listing Metallica, The Script, Iron Maiden), and "Recent Head Lines" (listing Metallica). The footer also contains links for Home, About us, Contact us, Youtube, Follow us, and Feedback, along with a copyright notice for 2015 Bikesh Kawan | Music News Reader by 24/7 Music News.

3. User Saved Feed page/myfeeds page

This page is only for user who are logged in to the system

Wire frame Design



Annotations for Logged in User's myfeeds page:

Footnote	Label	Description	Control Type	Content Type
1	My Feeds	Title for list of user's saved press articles	Text	Text, Font-size: 1.5em
2	Delete selection	Clicking on this button shall delete the checked articles from database and redirect to myfeeds page of the website	Form Input Type: Submit Button	Text, Font-size: 0.93em
3	Delete	Clicking on this button shall delete the corresponding checked articles from the database and redirect to myfeeds page of the website	Form Input Type: Submit Button	Text, Font-size: 0.93em
4	Delete selection	Clicking on this button shall delete the checked articles from database and redirect to myfeeds page of the website	Form Input Type: Submit Button	Text, Font-size: 0.93em

Final design for users saved feed page/ my feeds page

The screenshot shows a dark-themed web application for managing music news feeds. At the top, there's a header with a logo featuring a hand with wings and speakers, followed by the text '24/7 Music News'. To the right of the logo are social media links for Twitter and RSS, and a welcome message 'Welcome !! Peter Jones' with a 'Logout' button. Below the header is a navigation menu with links for Home, My Feeds, Latest Music News, Gallery, Reviews, About us, and Contact us.

The main content area is titled '27/7 Music News Your Music News RSS Reader' and describes itself as 'A complete Music News Reader from various Music site.' Below this, a section titled 'My Feeds' lists a single item:

Neil Young debuts new track 'Rock Starbucks'

Date Saved: Tue, 9:56 am , May 26, 2015
author@ Music-News.com Newsdesk
Tags: JAZZ, HIP HOP, ROCK

Neil Young has previewed a new song titled 'Rock Starbucks' at the Democracy Now website.
[Read More....](#)

Below the article are several control buttons: 'Check All', 'Delete Selection', 'Delete', 'Uncheck All', and 'Check All' again.

To the right of the main content are several sidebar modules:

- My Accounts**: Shows a hand icon and a search bar.
- MY FEED SEARCH**: Includes a search bar and links for 'My Saved Feeds', 'Manage Feeds', and 'Profile'.
- Tag Cloud**: Shows a hand icon and a list of tags: Metallica, Rock, Metal.
- Categories**: Shows a hand icon and a list of categories: Rock, Metal.
- My Archives**: Shows a hand icon and a list of months: January 2015, February 2015.
- Archives**: Shows a hand icon and a list of months: January 2015, February 2015.
- Our Partner Sites**: Shows a hand icon and a link to 'MusicNews'.

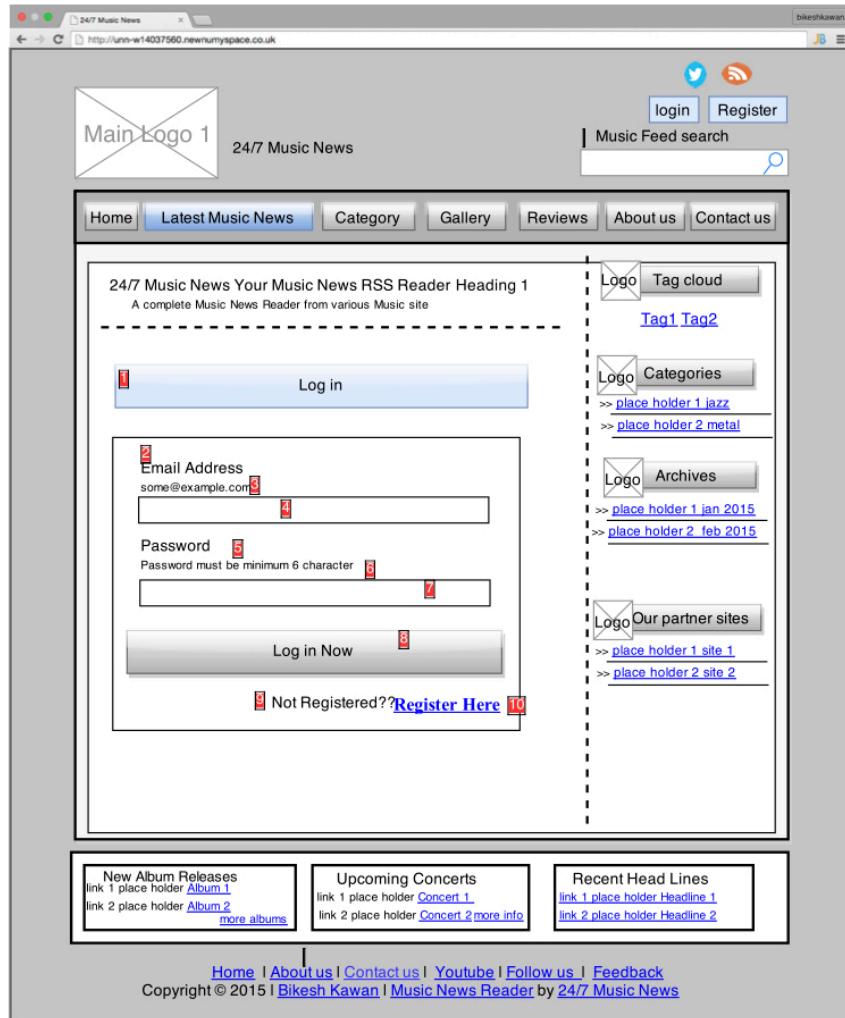
At the bottom of the page, there are three footer boxes:

- New Album Releases**: Lists Metallica, AC/DC, The Script, and a 'More albums' link.
- Upcoming Concerts**: Lists Metallica, The Script, Iron Maiden, and a 'more info' link.
- Recent Head Lines**: Lists 'Metallica'.

At the very bottom, there's a footer with links for Home, About us, Contact us, Youtube, Follow us, and Feedback, along with a copyright notice: 'Copyright © 2015 Bikesh Kawan | Music News Reader by 24/7 Music News'.

4. Login page

Wireframe design



Annotations for Login page

Footnote	Label	Description	Control Type	Content Type
1	Login	Title of the Login form	Text	Text, Font-size: 1.3em
2	Email address	Label for the email address field	Form label	Text, Font-size: 1.3em
3	Email instruction	Instructions for filling email address	Form label	Text, Font-size: 0.93em
4	Email input box	Input box for typing email address	Form input	Text, Font-size: 0.93em
5	Password	Label for password field	Form label	Text, Font-size: 1.3em
6	Password instruction	Instruction for filling password	Form label	Text, Font-size: 0.93em
7	Password input box	Input box for typing password	Form input	Text, Font-size: 0.93em
8	Login now	Click on this button shall log in the user into the system and redirect to user's home page	Form input type: submit button	Text, Font-size: 0.93em
9	Not Register	Label for Register Here link	Text	Text, Font-size: 0.95em
10	Register Here	Shall link to the user registration page	Text (Navigation)	Text, Font-size: 0.95em

Final design for login page

24/7 Music News

MUSIC FEED SEARCH

Home Latest Music News Gallery Reviews About us Contact us

27/7 Music News Your Music News RSS Reader

A complete Music News Reader from various Music site.

Email Address: someone@example.com

Password

Log in Not Register?? [Register Here](#)

Tag Cloud

Metallica

Categories

Rock

Metal

Archives

January 2015

February 2015

Our Partner Sites

MusicNews

New Album Releases

Metallica
AC/DC
The Script

Upcoming Concerts

Metallica
The Script
Iron Maiden

Recent Head Lines

Metallica

Home | About us | Contact us | Youtube | Follow us | Feedback

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5. Logged in User's Managed feed page

Wire frame Design

The wireframe illustrates a user interface for managing saved music feeds. At the top, there is a header bar with a logo, navigation links (Home, My Feeds, Latest Music News, Gallery, Reviews, About us, Contact us), and social media links (Twitter, RSS). A search bar and a 'Logout' button are also present.

The main content area displays a heading: "24/7 Music News Your Music News RSS Reader Heading 1" followed by a sub-heading: "A complete Music News Reader from various Music site". Below this, a message says: "Displayed below is the list of your Saved Music Feeds".

A table lists the saved feeds. The table has a header row with columns: Feed ID, Title, Details, More Details, date Saved, select Item, and Action. The body of the table contains two rows of data:

Feed ID	Title	Details	More Details	date Saved	select Item	Action
id1	title 1		Description 1 Read more	date 1	<input type="checkbox"/>	Delete
id2	title 2		Description 2 Read more	date 2	<input type="checkbox"/>	Delete

Annotations on the wireframe point to specific elements:

- Table Title Text-size : 2 em**: Points to the heading "24/7 Music News Your Music News RSS Reader Heading 1".
- Table Row Head**: Points to the first row of the table header.
- Table Row body**: Points to the second row of the table body.

At the bottom of the main content area, there are three boxes: "New Album Releases", "Upcoming Concerts", and "Recent Head Lines". Each box contains placeholder text for links.

At the very bottom, there is a footer with links: Home | About us | Contact us | Youtube | Follow us | Feedback. It also includes a copyright notice: Copyright © 2015 | Bikesh Kawan | Music News Reader by 24/7 Music News.

Final design for manage feed page

The screenshot shows a web browser window titled "Manage Music Feeds" with the URL <http://unn-w14037560.newnumyঃspace.co.uk/public/manageFeeds.php>. The page has a dark theme with a header featuring a hand with wings icon and the text "24/7 Music News". The top right includes social media links for Twitter, Facebook, and RSS, along with a welcome message "Welcome !! Peter Jones" and a "Logout" button. A search bar labeled "MUSIC FEED SEARCH" is also present.

Music News Your Music News RSS Reader
A complete Music News Reader from various Music site.

Displayed below is the list of your Saved Music Feeds

Feed ID	Title	Details	More Details	Date Saved	Select Item	Action
89639	Dave Grohl joins Paul McCartney in London	 Dave Grohl joined Paul McCartney at London's O2 Arena on Sunday night for I Saw Her Standing There.	Click Here	2015-05-26 10:28:40	<input type="checkbox"/>	Delete
89640	Neil Young debuts new track 'Rock Starbucks'	 Neil Young has previewed a new song titled 'Rock Starbucks' at the Democracy Now website.	Click Here	2015-05-26 09:56:30	<input type="checkbox"/>	Delete

[Delete Selection](#) [Uncheck All](#) [Check All](#)

New Album Releases
Metallica
AC/DC
The Script
[More albums](#)

Upcoming Concerts
Metallica
The Script
Iron Maiden
[more info](#)

Recent Head Lines
• Metallica

At the bottom, there are links for Home, About us, Contact us, Youtube, Follow us, and Feedback, followed by the copyright notice: Copyright © 2015 Bikesh Kawan | Music News Reader by 24/7 Music News.

Bikesh kawan, w14037560

Final design for search page

The screenshot shows a web browser window for 'Music Feed Search' at the URL <http://unn-w14037560.newnumy়space.co.uk/public/search.php>. The page has a dark theme with a central content area and several sidebar modules.

Header: Welcome !! Peter Jones | Logout | Twitter | RSS | **MUSIC FEED SEARCH** | neil | Search icon

Main Content: 24/7 Music News | 27/7 Music News Your Music News RSS Reader | A complete Music News Reader from various Music site. | Search Results Below.....

Left Sidebar: Home, My Feeds, Latest Music News, Gallery, Reviews, About us, Contact us.

Right Sidebar Modules:

- My Accounts:** Shows a hand icon and a link to 'My Accounts'.
- MY FEED SEARCH:** Includes a search bar and links to 'My Saved Feeds', 'Manage Feeds', and 'Profile'.
- Tag Cloud:** Shows a hand icon and a 'Tag Cloud' section with 'Metallica' highlighted.
- Categories:** Shows a hand icon and a 'Categories' section with 'Rock' and 'Metal' listed.
- My Archives:** Shows a hand icon and a 'My Archives' section with 'January 2015' and 'February 2015' listed.
- Archives:** Shows a hand icon and a 'Archives' section with 'January 2015' and 'February 2015' listed.
- Our Partner Sites:** Shows a hand icon and a 'Our Partner Sites' section with 'MusicNews' listed.

Bottom Content:

- New Album Releases:** Lists Metallica, AC/DC, The Script, and a 'More albums' link.
- Upcoming Concerts:** Lists Metallica, The Script, Iron Maiden, and a 'more info' link.
- Recent Head Lines:** Lists 'Metallica' and other recent news items.

Footer: Home | About us | Contact us | Youtube | Follow us | Feedback | Copyright © 2015 Bikesh Kawan | Music News Reader by 24/7 Music News

Final design for user's saved feed search

The screenshot shows a web-based application titled "Search My Feeds" with a dark theme. At the top right, there is a welcome message "Welcome !! Peter Jones" and a "Logout" button. The main header features a stylized hand with wings icon and the text "24/7 Music News". Below the header, a navigation bar includes links for Home, My Feeds, Latest Music News, Gallery, Reviews, About us, and Contact us.

The central content area displays a news item about "Dave Grohl joins Paul McCartney in London". The item includes a thumbnail image of Paul McCartney, a publication date of "May 26 2015", and a "Read More..." link. Below this item, there are buttons for "Delete Selected Item", "Uncheck All", and "check all".

To the right of the main content, there are several sidebar modules:

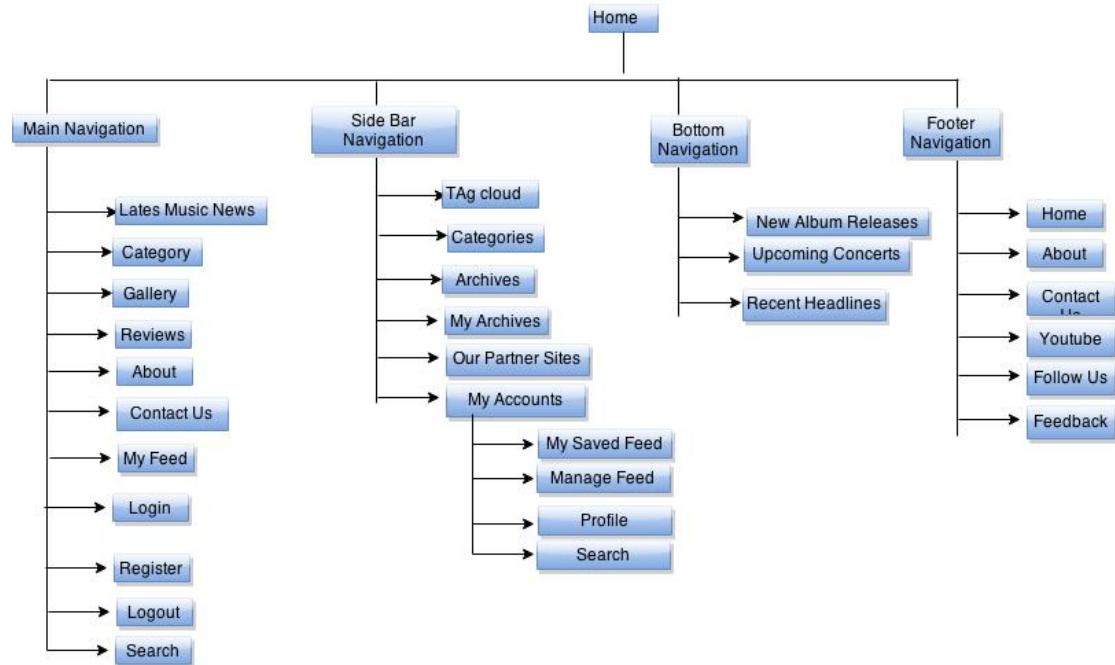
- My Accounts:** Shows a search bar with "dave" and a "Logout" button.
- MY FEED SEARCH:** A search bar with "dave" and a magnifying glass icon.
- Tag Cloud:** Includes the word "Metallica".
- Categories:** Includes the words "Rock" and "Metal".
- My Archives:** Includes the months "January 2015" and "February 2015".
- Archives:** Includes the months "January 2015" and "February 2015".
- Our Partner Sites:** Includes the word "MusicNews".

At the bottom of the page, there are three footer sections: "New Album Releases", "Upcoming Concerts", and "Recent Head Lines". The "Upcoming Concerts" section lists "Metallica", "The Script", and "Iron Maiden". The "Recent Head Lines" section lists "Metallica".

At the very bottom, there is a footer with links for Home, About us, Contact us, Youtube, Follow us, and Feedback, along with a copyright notice: "Copyright © 2015 Bikesh Kawan | Music News Reader by 24/7 Music News".

Site Navigation

Site Map



Usability

Usability is an Art of understanding how people look at/use a website.

Nielsen states this as “a quality attribute that assesses how easy user interfaces are to use”(Loranger & Nielsen, 2006). He states usability with following terms:

- Learnability: how easy is it to accomplish basic tasks the first time?
- Efficiency: the speed that tasks can be performed
- Memorability: returning to the design how easily can users re-establish proficiency?
- Errors: how many errors do users make, how severe are these errors, and how easily can they recover from the errors?
- Satisfaction: how pleasant is it to use the design?

Home Page Goals

Homepage is the first impression for all the websites. One of the user-experience failures is design of homepage. Ultimate failure means when the home page says one thing, but the all other internal pages contain and says totally different from home page. (Powazek, 2006). My home page has following three main goals.

1. What is this website for?

Logo related to music has been placed in header, which is quite eye catching. Title of site is also included next to logo. Also, there are some texts, which are not too wordy, excited and positive , which ensure users are browsing music websites and will not be confused. This makes reader feel important and within three seconds a first time visitor will understand what the website is all about. (Powazek, 2006)

2. Repeating visitors, Regular updates and new stuffs

Content is the main priority that makes users come back to site again. (Nielsen & Pernice, 2001) Even more dynamic area on page should contain interesting and specific item that is meant to be for target audience. The dynamic or main content area of the website is absolutely clear and relevant. Latest music news is displayed in main content area and they are high quality. They are automatically updated daily as website is based on pulling RSS feed from different music related websites. Home page has been customised to give different user experience when they are logged into the system. [Appendix A] Logged in user's name is displayed on the site as top right corner.

[Appendix A]

3. Consistency and reliable global navigation

Good navigation is very important as all the other pages are based on navigation. (Pernice and Nielsen, 2001) Design should be structured and consistence through all the pages, which is equally important as navigation. This will make user easy to access other pages of the websites within the website. Main Navigations, side-bar navigation and footer navigation on every page of the website should be on same place and should maintain consistency in design. As the expectation that is set in home page will carry forward. (Powazek, 2006) Homepage has less than nine main navigation links and all the pages follow similar design as home page. They have same header, footer and side bar. All the pages have search facilities and they are well positioned on top right. [Appendix A]

Content

Keeping content clear is another important factor when it comes to web usability. There should not be confusion with the contents and other element of the website. (NIELSEN, 2008). I have used enough white spaces, broken horizontal lines, broken vertical lines, different colours to keep the content clear. By doing so, User's attention to key points can be easily drawn without eyestrain.

Anchor links and navigations are the best solution over links with no direct meaning like 'click here', 'click image' etc. (w3c, 2015) I have used anchor links on images, article titles and descriptions to split the long information. Images have been kept small within line borders without losing its quality. [Appendix A]

Avoiding horizontal scrolling and keeping content pyramid structure can make website more usable. (W3C, 2015) User can experience this usability features in my website. Using appropriate colour schemes, high contrast between foreground and background colours is maintained appropriately to make content clear so that user can easily read it. [Appendix A]

Page Loading and Efficiency

It is found that average people will wait for maximum four seconds for a web page to load before potentially leaving. (Loranger & Nielsen, 2006) Only less than two minutes a user will browse the website spending twenty seven seconds on each page. Optimizing cascading style delivery and images' properties can increase the speed of page loading. In order to optimize cascading style sheets I have used external file and they are less in number as additional style sheets may increase HTTP requests. (Loranger& Nielsen, 2006) Images have been resized so that page can be loaded quickly. Quality of images has not been affected while resizing images. Only JPEG format has been used for images. As other formats of image like PNG, old browser might not support BIMPs, and TIFFs. Finally, src attribute is properly used with valid links as empty img src codes like can add unnecessary traffic while the browser makes a request to the directory for image.

To make the process quick I have used check box and button so that logged user can easily save articles by either selecting all the article at once or making specific selection and save them or saving corresponding articles one at a time.[Appendix A]

Proper Uses of overlays and Light boxes

Light boxes and overlays are the solution to an interaction-design challenge which most designers have been adopting since the technique first appeared. (NIELSEN, 2008) Overlay refers to an alert box on top of another page. I have used overlays to make decisions and to confirm action performed by user, when they purposely or accidentally click delete and logout button. An explicit message has been displayed which tells what will happen when action is performed. This will help users avoid dismissing an alert box. (WHITENTON, 2015) It is distinct from background, and appears in centre of webpage, which is not too big, not too small in size. So it is easily visible.

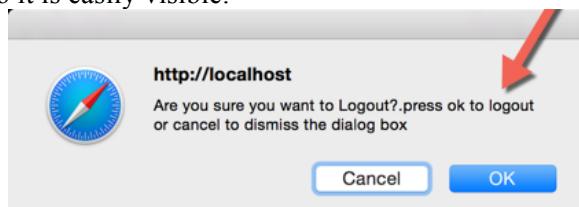


Fig: Alert box with explicit message

Accessibility

“Web accessibility means that people with disabilities can use the Web. More specifically, Web accessibility means that people with disabilities can perceive, understand, navigate, and interact with the Web, and that they can contribute to the Web. Web accessibility also benefits others, including older people with changing abilities due to aging”. (W3C, 2008) Web Content Accessibility Guidelines (WCAG) 2.0 recommends four principles to follow while making web content more accessible. They are ‘perceivable’, ‘operable’, ‘understandable and ‘robust’. (W3C, 2008) They are explained under different section of my websites.

Label and Placeholder in form fields

Placeholder text within a form fields are harmful both in terms of web usability and accessibility. (SHERWI, 2014) It might bring confusion and difficulty for people to recognize what information belongs in field. It might also take over extra burdens for the users specifically those who are visual and cognitive impairments. In the website, I have used the best practice of placeholder in terms of accessibility that is the labels or instructions and hints are placed outside the form field. This is quite important as not all the screen reader reads placeholder text aloud hence there is more probability blind and deaf users will miss the hints totally. Not only blind people but also cognitive and motor impairments users are affected as well when they tried to magnify, as not all the browser will support placeholder.

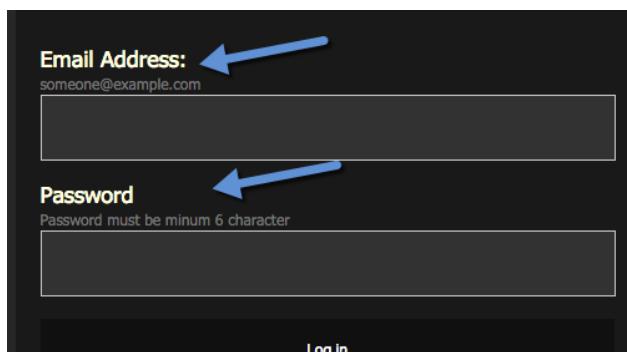


Fig: Best practice of form fields

Text Alternatives

The purpose of text alternatives is to ensure that non-text contents like images, maps are also available in ‘text’, which refers to electronic text, not an image of text or map of text. Electronic texts are presentation neutral so they can be rendered visually, auditory, tactiley etc. (W3C, 2008) Hence, they can be easily magnified and spoken aloud for people having reading disabilities. Alt attributes are provided for all the images in the site. I have tested the site with Accessibility checkers like AChecker[<http://achecker.ca/checker/>] to make sure all the images have alternative text.

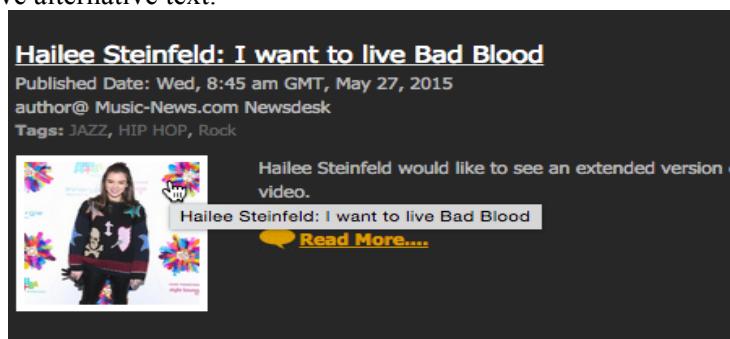


fig: image with alternative text

✖ **Line 119, Column 138:** required attribute "alt" not specified
...g'><p>

Fig: testing with Achecker

Navigation

User interface components and navigation must be operable. An accessible website doesn't rely on the mouse only; it provides all the functionality via keyboard. (W3C, 2008) In the website I have used tabindex attribute to each links in a logical way. So if user tab for 11 times and hit enter it will open latest Music news page. This will make website accessible by keyboard and by speech input. People with disabilities can use assistive technologies to access the site easily. These people are mostly older user with limited fine motor control.

```
<a href="index.php" tabindex="10">Home</a></li>
<a href="index.php" tabindex="11">Latest Music News</a></li>
<a href="public/commingsoon.php" tabindex="12">Category</a></li>
<a href="public/gallery.php" tabindex="13">Gallery</a></li>
<a href="public/commingsoon.php" tabindex="14">Reviews</a></li>
<a href="public/aboutus.php" tabindex="15">Abouts us</a></li>
<a href="public/contactus.php" tabindex="16">Contact us</a></li>
```

Fig: code showing tabindex attribute

Meaningful texts, which make sense, should be used for hypertext link, avoiding click here. (W3C, 2008) It will make sense when reading out context for blind people. Not only useful text but also text must be underlined, as most of the users believe underline text as a link.

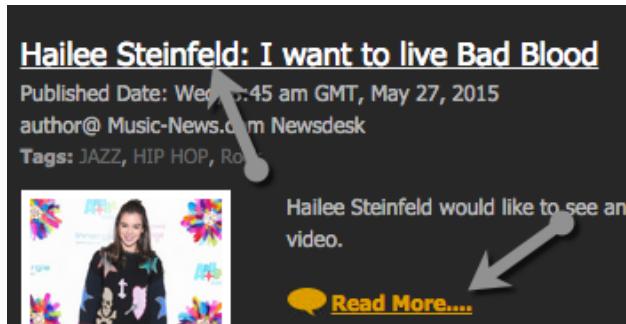


Fig: link text underlined and meaningful text

Colour and contrast

Contents must be distinguishable to make it for users to see and hear content including separating foreground from background (W3C, 2008). The color combination of foreground and background of my site provides enough contrast when viewed by people having disabilities with colour. Also, I have ensured all the information conveyed with colour is also available without colour, and cascading style sheet. Some people might use text-only, limited-color or monochrome displays or they might upload their own style sheets.

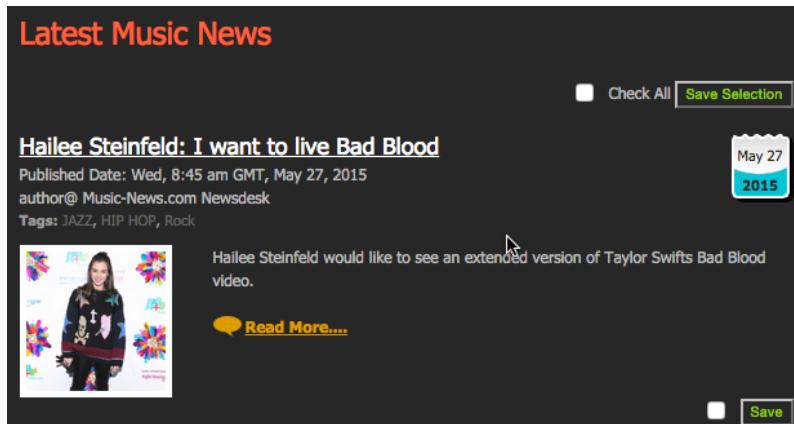


Fig : showing use of colour and contrast

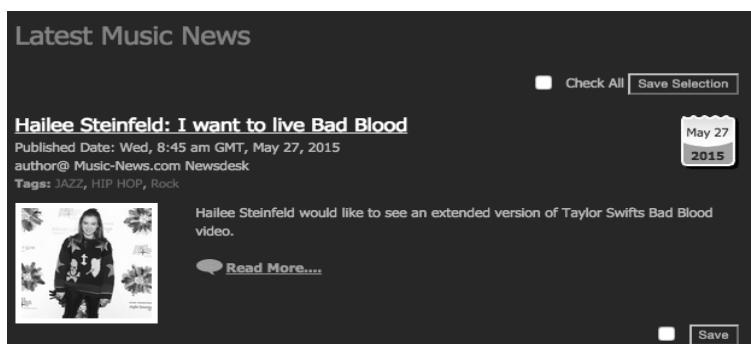


Fig: testing website in grey scale mode

Hailee Steinfeld: I want to live Bad Blood

Published Date: Wed, 8:45 am GMT, May 27, 2015

author@ Music-News.com Newsdesk

Tags: JAZZ, HIP HOP, Rock

May 27 2015



Fig: showing content is available without contrast, colour and css

Document Support

XHTML is the standard markup language for web documents. XHTML Strict 1.0 is used as web document type, which is benchmark for developing this system. Validating all the web pages with XHTML has so many advantages over technologies. Site will work well with different types of browser, different versions of browser and will work well in future as well. (Zeldman, 2002) Doctypes are a key component of compliant web pages: markup and CSS will not validate without doctypes. I have used <https://validator.w3.org> to validate web pages with correct doctypes.

This document was successfully checked as XHTML 1.0 Strict!	
Result:	Passed
Address :	<input type="text" value="http://unn-w14037560.newnumyspace.co.uk/index.php"/>
Encoding :	utf-8 <input type="button" value="detect automatically"/> <input type="button" value=""/>
Doctype :	XHTML 1.0 Strict <input type="button" value="detect automatically"/> <input type="button" value=""/>
Root Element:	html
Root Namespace:	http://www.w3.org/1999/xhtml



Try now the W3C Validator Suite™ premium service that checks your entire website and evaluates its conformance with

Fig: Webpage tested for doctypes

Compromises I have had to make

The site could be more responsive, usability and accessibility, if new technologies such as HTML5, CSS3, python, AJAX, php libraries etc., are used. As ,XHTML and CSS are bench mark for the system development, I have to stick with old technologies. Using new technologies could make website more user-friendly and attractive in nature. For example, using php libraries, the site could be developed in multiple languages. Users who are not know to English language could access website. Website could be popular, usable and accessible internationally.

Conclusion

In conclusion, all the developers and designers should consider usability and accessibility, while developing any type of system. It is equally important as functionality of the system. System should not be only for enabled person; it should be available for people with disabilities as well. Usability and accessibility could be improved if guidelines provided by WCAG are followed. Finally, system must be run through w3c validator to ensure the document type of the web system is without errors.

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Appendices

Appendix A

The screenshot shows a web browser window for the '24/7 Music News - RSS Reader' site at <http://unn-w14037560.newnummyspace.co.uk/public/index.php#>. The page has a dark theme with various sections for news, feeds, and partner sites.

Header: Welcome !! Peter Jones | Logout | Twitter icon | RSS icon

MUSIC FEED SEARCH: A search bar with a magnifying glass icon.

Navigation: Home, My Feeds, Latest Music News, Gallery, Reviews, About us, Contact us.

Latest Music News: A section listing recent articles:

- Neil Young debuts new track 'Rock Starbucks'**
Published Date: Tue, 8:02 am GMT, May 26, 2015
author@ Noise11
Tags: JAZZ, HIP HOP, Rock
Image: Neil Young playing guitar.
Read More....
- Dave Grohl joins Paul McCartney in London**
Published Date: Tue, 7:52 am GMT, May 26, 2015
author@ VVN Music
Tags: JAZZ, HIP HOP, Rock
Image: Dave Grohl and Paul McCartney.
Read More....

My Accounts: A section showing a hand icon and a 'My Accounts' button.

MY FEED SEARCH: A sidebar with a search bar and links to 'My Saved Feeds', 'Manage Feeds', and 'Profile'.

Tag Cloud: A section showing a hand icon and a 'Tag Cloud' button, with categories like Metallica, Rock, and Metal.

Categories: A section showing a hand icon and a 'Categories' button, with sub-categories like Rock and Metal.

My Archives: A section showing a hand icon and a 'My Archives' button, with links to January 2015 and February 2015.

Archives: A section showing a hand icon and an 'Archives' button, with links to January 2015 and February 2015.

Our Partner Sites: A section showing a hand icon and a 'Our Partner Sites' button, with a link to MusicNews.

Bottom Navigation: New Album Releases (Metallica, AC/DC, The Script), Upcoming Concerts (Metallica, The Script, Iron Maiden), Recent Head Lines (Metallica), More albums, more info, Home, About us, Contact us, Youtube, Follow us, Feedback.

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