Assessing the Effectiveness of Accessibility and Usability of Government Website at District Level

Poonam Malik¹,Dr. Ruchira Bhargava², Dr. Kavita Chaudhary³

¹Assistant Professor, Dept. of Computer Science, Jagannath International Management School, Vasant Kunj, New Delhi -70, India

²Associate Professor,Ph.D. Coordinator, HOD (CSE/IT) Dept., JJT University, Jhunjhunu, Rajasthan, India ³Associate Professor, Department of computer science, Jagannath University, Jaipur, India

Abstract:- Usability and accessibility of the egovernment website are important l issue that must bethought-about for improving effectiveness, satisfaction, usabilityand efficiency in services to citizens. Although, there are many Indian government websites that are providing on-line services, most of them haven't been tested for usability and accessibility standards. This study assesses effectiveness of ane-government website at the district level for its usability and accessibility. During this study the e-government website is effectivenessof measured through usability and accessibility testing approach. The aim of this study is to support the mission government of the website by evaluating the present style of design of government website. The reflects that Indiane-government websites are rated terribly low interms accessibility and usability and there is an urgent requirement to improve the usability and accessibility of e-government web site so as to be more practical and user friendly for citizens.

Keywords— E-government, WCAG 2.0, Usability, Accessibility Tools

I. INTRODUCTION:

As e-government implementation stepping into second section, e-government websites have become a crucial vehicle for communication with users. E-Government has been defined as "a broad-based transformation initiative, enabled by leverage the capabilities of information and communication technology (ICT) to develop and deliver prime quality, seamless and integrated citizen services. E-Government has the potential to make good relationships between the government and public, through citizen empowerment and by providing maximum transparency.

The numbers of citizens seeking data and services online are increasing day by day. These users expect government websites to avoid wasting their time and cash. The responsibility of government is to design simple, user friendly and easy to use websites to be usable by all kinds of citizens. Implementing the simple principle of getting web site, that works well and does not confuse the user or get him annoyed, can facilitate to scale back the abandonment of the web site by users. The user's abandonment can cause unusable web site. Usability outlined as degree to which individuals will perform successfully a collection of needed tasks.

Usability defined as the extent to which a product will be utilized by given users to attain given goals with effectiveness, potency and satisfaction in a defined context of use.

The effectiveness means the accuracy and completeness with which users fulfill defined goals, efficiency means the resources utilized in respect to the accuracy and completeness with witch users fulfill their goals, and satisfaction means the comfort and satisfactoriness of use.

Therefore. usability issues check with aspects that create the product ineffective, inefficient, and difficult to learn and operate. Thus, we are able to emphasize the usability in e-government context by ensuring the website design and interface to be simple to use. Usability is incredibly essential in E-Government. even one as usability drawback will adversely have effect on millions citizens; it will cost them time and cash .There are several poorly designed and unusable systems exist on which users face problems related to learning and operating. That kind of systems leads to the dissatisfaction and frustration to the users.

A Website is called accessible when maximum group of people can access it. Government websites are based on accessibility policies of Web Content Accessibility Guidelines (WCAG 2.0) formulated by W3C.Key accessibility principles of WCAG are given below:

- a) *Perceivable:* All content, like text, multimedia, video and audio should be presented to users in ways in which they will understand. This includes giving textualdescription for non-text objects (image, audio), color distinction between foreground and background and having relevant alternatives (such as captions for videos) for multimedia data.
- b) Operable: user interface components and navigation should be operable, i.e., all practicality must be accessible with the mouse and keyboard.
- c) Understandable: Information/content available and user interface of website must be understandable. i.e website pages must be simple and facilitate clarification.
- d) Robustness: Content should be robust enough to enable it to interpreted reliably by different types of user with help of different technologies. There should be no markup language and CSS validation errors.

A good design of a website depends on various elements e. color ratio, content, browser independency, layout etc. This paper evaluates the usability and accessibility of a district level government website by manual testing and through open source web accessibility evaluation tools. In this paper "www.mcpanchkula.org", a district level government website is considered for evaluation.

II. METHODOLOGY

The purpose of this study is conducting a usability and accessibility test to find out the effectiveness of government websites at the district level in India. The local level government plays an important role in smart governance as local governance affects most of citizens than by the upper layers of governance. The study tries to find out to what extent these e-government websites at district level in India are effective, simple, user-friendly and easy to use by the users. The aim of this analysis is to find whether the government fulfils the purpose of e-governance and to check whether they are follows the Web Content Accessibility Guidelines 2.0 (WCAG 2.0). The usability test has done by visiting the website of local level (district level) government i.e. www.mcpanchkula.org by the author personally and by the 10 other potential users of the website. The test was conducted with a group of potential users who have good knowledge of computer and internet. Ten Participants who are residents of Panchkula district are asked to check the online services and other facilities on websites. These participants of the different age group, from different sectors (3 from public sector, 2 from government sector, 3 from private company and 2

students of Graduation College) are volunteered for this domain.

Accessibility is an important idea behind various web standards. Designing accessible websites will help in creating a digital world. Accessibility compliance of this website was checked district level from http://wave.webaim.org/, which provides an automated tool called "WAVE". Other tools used are HTML validator, W3C CSS validator and W3C Link Checker to find out broken links of e-government website according to WCAG. These tools are provided on the http://guidelines.gov.in website under Tools-and-Resources category to check the accessibility of Indian government websites.

III. OBSERVATIONS

The corporation websites shows "Online Services" namely birth / death certificate, marriage registration certificate, property tax etc., but actually the user cannot avail these facilities online. The forms are available on the website in the PDF version. The user can take printouts of the form of the above service. User has to fill these forms and then submit physically in the corporation office which defeats the whole purpose of online service, it would actually be wrong to call these services online in the free sense of the word.

The services like Death / Birth Registration, Marriage registration, Public Grievances, Property Tax, Fire Application, Mobile Tower, Trade License, Tender, Building Plan are repeated under different headings like OnlineServices, Civic Services, Download which waste the space of websites where as some other important links/ information are missing from websites such as: Complaints,Online Electricity Bill payment, Online water bill payment, online OPD booking in hospitals etc.

The other services given under "Online Service: tab namely Fire Application, Trade License and Building Plan when clicked open the website of other concerned urban local bodies. Ideally, the user shall be provided all these services integrated on a single window.

There is no "Search" option provided in the website "mcpanchkula.org" which leads to a lot of time wastage and frustration for a new user of the website. "Property Tax" link is mentioned where "Search Option" supposed to be mentioned. A website does not seem to be designed in a user-friendly an interactive manner. The home page does not give any introductory information about the corporation. The website shall be bilingual while it is only in English. The website has broken link of "www.India.gov" website, which is mentioned under the category of "USEFUL LINKS".

The website can be developed in a much better way considering a large amount of approx. 60, 000 Rs. per month paid by government to maintain the websites.

MC Panchkula deactivated their "Twitter" account previously available on "www.mcpanchkula.org "becauseit was not updated from long time.

The website does not fare well in terms of updating. It is observed thatthe website is not regularly updated. The Facebook page of Municipal Corporationwhich is linked through "mcpanchkula.org" website displays the profile photo of Sh. Lalitsiwach as municipals commissioner even after Dr. Shaleen replaced him. This error was rectified only after a local newspaper highlighted it. Similarly, the Facebook page of Municipals Corporation was also not update for around six months. No new post has been updated after 18th Dec. 2016.

The Facebook page was updated after the news got published in newspaper. The head ensures as first thing in the morning that the, following points were updated on Facebook page in morning of 1st .June. 2017 between 8:39 am to 8:50 am before the office starts.

- Website address of MC Panchkula Swach Baharat website
- MC Panchkula updated their phone numbers.
- MC Panchkula updated its profile picture
- Update only one new photo

The new commissioner posted two messages and 29 photos on 4th .Jun2.2017 on the Facebook page only after the newspaper mentioned it in its report, which otherwise was not visited by any official for last six months. This show an attitude of disinterest in government officials as far as website are concerned who cannot appreciate the huge inconvenience it causes to general public when they browse these websites for any service. The officials should consider it as an important part of their daily duty rather than doing a cover-up job after media highlights.

IV. FINDINGS

The websites does not providing online services in reality, social links are also not updated regularly, and enough services relevant to citizens' convenience are not available on website. All these factors do not fulfill the purpose of E- Governance and also not provide benefits of e- services to citizens. Summary of accessibility of website compliance checked by HTML validator, CSS Validator, Link Checker and WAVE tools.

- 22 HTML validation Errors
- 5 HTML Validation Warnings

- 2 Link Errors
- 7 CSS Validation Errors
- 78 CSS validation Warnings
- 36 Color Contrast errors

The government websites still requires regular efforts in their designs to make them fully usable and accessible

V. SUGGESTIONS

Municipal Corporation Panchkula must provide some more online services to the convenience of citizens. These suggestions helpers to improve the quality of website quality and also facilitates citizens for their routine activities. These suggestions' regarding availability of on line services improves the quality of egovernment website and its services at local level/district level.

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- 1. *Electricity Bill:* It can provide the following online services regarding Electricity Bills, which help citizens to view and pay their electricity bills online.
 - Pay your electricity Bill
 - View Your Electricity Bill
 - E- Bill Registration
 - New Connection Registration
 - New Connection Status
- 2. **Water Bill:** Online Water bill payments help citizen to view or pay their pay online. Following services can be provided under this are:
 - Pay your Water Bill
 - View your Water Bills
 - E-bill Registration
 - New Connection Registration
 - Water Tariff Order
 - Monitor Water Quality
- 3. *E- Hospital:* Online OPD Booking helps citizen to fix their appointment with doctor online without any hassle.
 - Online Registration System
 - List of Hospitals
 - View Medicine Stock
- 4. *Connect with us:* Through different social connection mediums, citizens can connect to the services provided by M. C. website.
 - Facebook
 - Twitter

- YouTube
- Email
- Connect with WhatsApp
- 5. Attendance Dashboard: IT helps to find out the daily attendance of employees and helps in monitoring the stability of employee in office which in turns improves the work efficiency of employee and leads to quality in citizen services.



- Complaints: There should be provision to register a complaint through different modes, so that citizen can register complaint any time regarding any problem.
 - Register Online Complaints
 - Mobile App for Lodging Complaint
 - WhatsApp
 - E-mail
- 7. *Frequently asked questions:* There should be FAQ available on the website regarding the services porvided to the citizens.It Helps the citizens in operating the services given on website.
- 8. *Search Option:* Search Option must be available on the website. It saves user time to find out the particular information available on the website.
- 9. *Multilingual*: Content of website can also be availability in national language which increase the usability of website to the local users.
- 10. Adoption and Implementation of WACG 2.0: Government website must comply at least with WCAG level of AA.
- 11. *HTML error can be esaily fixed:* errorls like giving alternative text for images and liks can be corrected.
- 12. *Set up of Accessibility cell :* Through this cell accessibility of websites can be checked at the Local/ district level.
- 13. *Online accessibility score card:* This score card is open to users/public which helps to government to maintain accessibility of website.

VI. CONCLUSION

Accessibility and Usability test was conducted to measure the effectiveness of e-government website at the district level in India. A web site of Panchkula district of Haryana state was selected for this study. The website was tested manually to check usability and by a WAVE and other validation tools to check the accessibility. The result indicates that this e-government website have a serious usability drawback and it also not following the WCAG 2.0 website accessibility guidelines. There is an urgent need to improve the interface design, search and navigation, content of e-government website to be simpler, effective and more usable for the citizens.

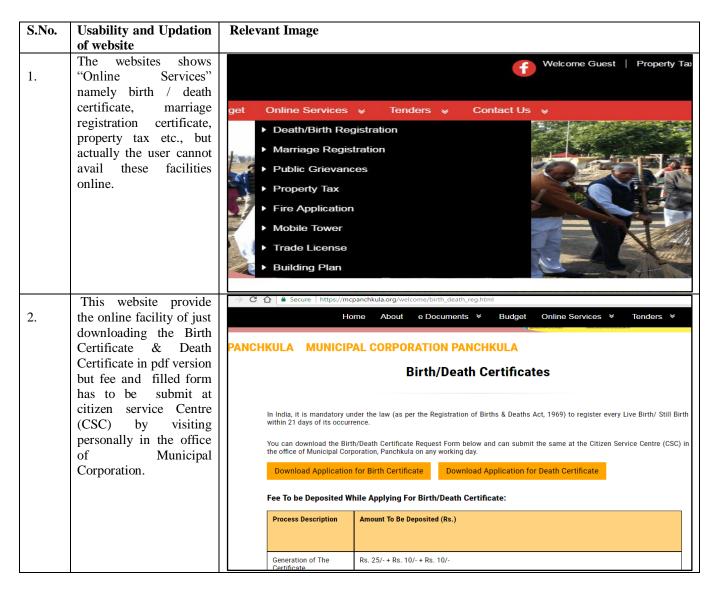
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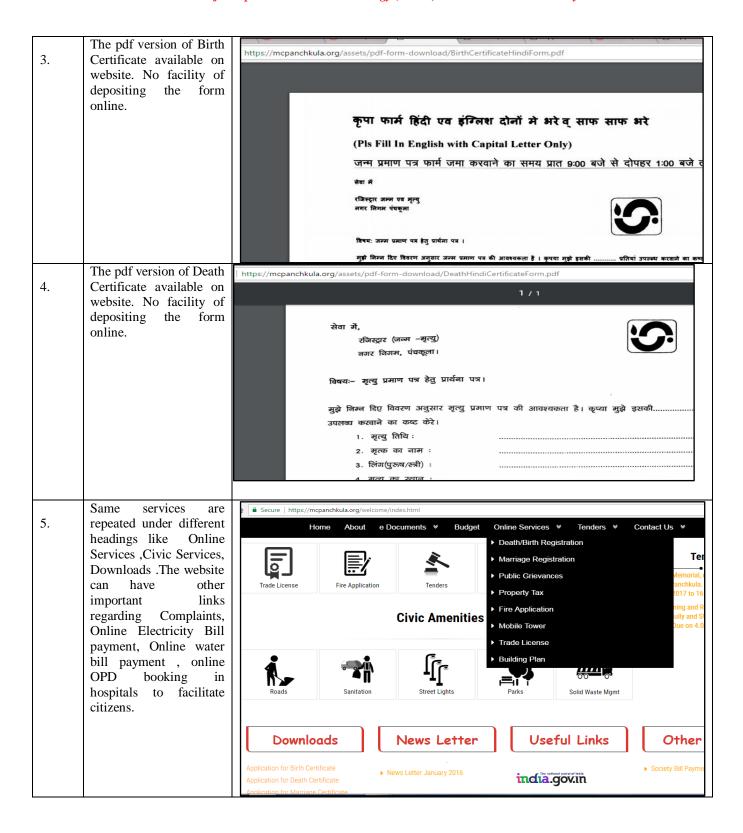
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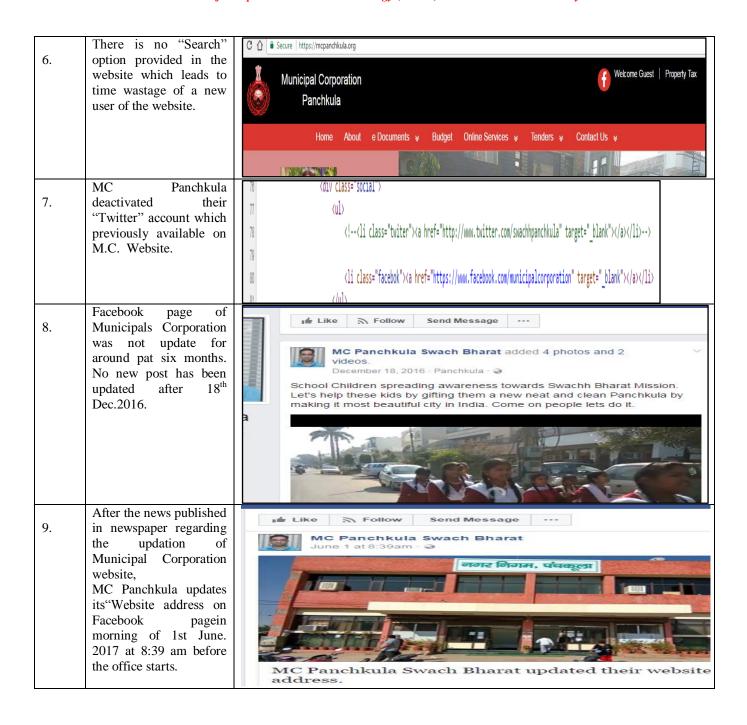
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VIII. APPENDICES

Appendix1: Given below are the examples to illustrate that the online services mentioned in the website are not actually online and social media of this website are also not updated affects key area of daily life and put a question mark on the concept of e-governance/ digital India.











Appendix2: The accessibility guidelines are developed to make the website or service accessible to all persons in one way or another. For development of websites, the website Content Accessibility guidelines (WCAG) created by the W3C is the universally accepted standard. "WAVE" Validation tool is used to check the code for standards compliance for color contrast. Other tools used are HTML validator, W3C CSS validator and W3C link Checkerto find out broken linksof e-government website according to WCAG. The "www.mcpanchkula.org" is checked for the accessibility errors. The table listed below gives the errors found in the website.

S.	Error		Detail / Problem relevant to
NO	Type	Error Code	accessibility
1.	HTML	Guideline 3.1 – Readable	A meta tag with an attribute
	Validation	Success Criterion: 3.1.1Language of Page (Level A)	"http-equiv" having a value
	Error	Error: Using the meta element to specify the document-wide default	"content-type" and has
		language is obsolete. Consider specifying the language on the root	related content attribute and
		element instead.	value is to be in the encoding
		From line 11, column 2; to line 11, column 51	declaration state.
		a.org/">← <meta content="en" http-equiv="content-language"/> ← lin	
		From line 15, column 2; to line 15, column 51	
		ollow"/>← <meta content="en" http-equiv="content-language"/> ← <met< th=""><th></th></met<>	
2.	HTML	Guideline 2.4 Navigable:	No extra Double courts must
	Validation	Success criterion: 2.4.3 Focus Order (Level A)	not be applied here e.g.
	Error	Error: Saw "when expecting an attribute name. Probable cause:	target="_blank"">
		=missing immediately before.	
		At line 149, column 86,target="_blank"">Death/Birth R	
		At line 566, column 61,target="_blank""> <imgsrc="htt< th=""><th></th></imgsrc="htt<>	
		At line 567, column 63,target="_blank""> <imgsrc="htt< th=""><th></th></imgsrc="htt<>	
3.	HTML	Guideline 2.4 Navigable:	Attributes for element $\langle \underline{a} \rangle$ are
	Validation	Success criterion :2.4.2 Page Titled (Level A)	href, target ,rel ,rev,type. This
	Error	Error: Attribute " not allowed on element <u>a</u> at this point.	(") is nit attribute of element
		From line 149, column 13; to line 149, column 87	<a>
		<pre><a <="" href="http://crsorgi.gov.in/web/index.php/auth/signUp" pre=""></pre>	
		target="_blank"">Death/	
		From line 566, column 10; to line 566, column 62	
		← <a "="" href="http://www.haryana.gov.in" target="_blank"><img <="" p="" s=""/>	
		From line 567, column 10; to line 567, column 64	
		← <a "="" href="http://cmharyanacell.nic.in" target="_blank"><img <="" p="" s=""/>	
4.	HTML	Guide line 1.1 Text alternatives:	An alternate text must be

5.	Validation Error HTML Validation Error	Success Criterion 1.1.1 Non text content (A) Error: An img element must have an alt attribute, except under certain conditions. From line 308, column 1; to line 308, column 75 s_right">← ← <th>provided for any non- text Content so that it can be processed by screen reader and conveyed to the user of website. Some of the tags of markup language are open and some are close. <marquee> is an</marquee></th>	provided for any non- text Content so that it can be processed by screen reader and conveyed to the user of website. Some of the tags of markup language are open and some are close. <marquee> is an</marquee>
		From line 528, column 5; to line 528, column 14↔↔ Error: Unclosed element ul. From line 500, column 1; to line 500, column 4tart();">↔ ↔< From line 530, column 5; to line 530, column 9↔	open tag but here it is mentioned as a close tag. Here is not closed. Here is close unnecessarily
6.	HTML Validation Error	Fatal Error: Cannot recover after last error. Any further errors will be ignored. From line 644, column 2; to line 644, column 23 Top> <-> <-> div id="back-to-top"> <-> <-> <-> <-> <-> <-> <-> <-> <-> <-	
7.	HTML Validation Error	Guideline 4.1: compatible Success Criterion 4.1.1: Parsing (A) Error: Element marquee not allowed as child of element section in this context. From line 397, column 1; to line 397, column 142 marquee">→ <marquee behavior="scroll" direction="left" onmouseout="this.start();" onmouseover="this.stop();" scrollamount="6" style="overflow-y:hidden;">→<sp 230="" 465,="" 499,="" 553,="" 573,="" 5;="" <="" allowed="" as="" child="" column="" context.="" div="" element="" error:="" from="" hd="" in="" line="" marquee="" not="" of="" this="" to=""> From line 573, column 5; to line 573, column 230 ⟨/h1>→<marquee behavior="scroll" height="170px" onmouseout="this.start();" onmouseover="this.stop();" scrollamount="2" style="line-height: 22px; text-align: left; padding: 0px 5px; overflow-y:rection=" up"=""> The first triangle of the first triangle in this start (); "onmouseout="this.start();"> The first triangle of the first triangle in this start (); "onmouseout="this.start();"> The first triangle of the first triangle in this start (); "onmouseout="this.start();"> The first triangle of triangle of this start (); "onmouseout="this.start();"> The first triangle of triangle of</marquee></sp></marquee>	In markup languages elements are nested according to their specifications. If the html element is nested bydl element: one or more dt elements nested by one or more dd elements, optionally intermixed with script-supporting elements. If the element is not nested by dl element: Flow content.
8.	HTML Validation Error	Error: Stray start tag div. From line 644, column 2; to line 644, column 23 Top>← <div id="back-to-top">←<a< td=""><td></td></a<></div>	
9.	HTML Validation Error	Error: No space between attributes. At line 149, column 86, target="_blank"">Death/Birth R At line 566, column 61, target="_blank""> <imgsrc="htt "="" 567,="" 63,="" at="" column="" line="" target="_blank"><imgsrc="htt< td=""><td></td></imgsrc="htt<></imgsrc="htt>	
10	HTML Validation Warning	Warning: Attribute " is not serializable as XML 1.0. From line 149, column 13; to line 149, column 87 <a "="" href="http://crsorgi.gov.in/web/index.php/auth/signUp" target="_blank">Death/ From line 567, column 10; to line 567, column 64 ←<a "="" href="http://cmharyanacell.nic.in" target="_blank"><img 10;="" 566,="" 62="" column="" from="" line="" s="" to="" ←<li=""/><a "="" href="http://www.haryana.gov.in" target="_blank"><img s<="" td=""/><td>Attribute " is not serializable as XML 1.0.Extra " symbol is applied after target="_blank""></td>	Attribute " is not serializable as XML 1.0.Extra " symbol is applied after target="_blank"">
11.	HTML Validation Warning	Guideline 2.4: Navigable Success Criterion: 2.4.10: Section Headings (AAA) Warning: Section lacks heading. Consider using h2-h6 elements to add identifying headings to all sections. From line 176, column 4; to line 176, column 32	Section Headings may be used to organize the content of different sections of the page.

		header>← <section class="home-slider">←<div From line 396, column 1; to line 396, column 25 section>←←<section class="marquee">←<mar< th=""><th></th></mar<></section></div </section>	
12.	Link Error	Line: 565 https://www.india.gov.in/ Status: 500 Can't connect to www.india.gov.in:443 (certificate verify failed)	This broken link is not allowing you to connect to the important Indian government website.
13.	Link Error	Lines: 89, 98, 119, 138, 147, 159 <u>javascript:void(0)</u> ; Status: (N/A) Access to 'javascript' URIs has been disabled Line 89: cliclass="directory"><ahref="javascript:void(0);">e Documents Line 98: <liclass="directory"><ahref="javascript:void(0);">Online Services Line 119: <liclass="directory"><ahref="javascript:void(0);">Tenders Line 138: <li class="directory">e Documents Line 177: <liclass="directory"><ahref="javascript:void(0);">Online Services Line 159: cliclass="directory"><ahref="javascript:void(0);">Tenders</ahref="javascript:void(0);"></ahref="javascript:void(0);"></liclass="directory"></ahref="javascript:void(0);"></liclass="directory"></ahref="javascript:void(0);"></liclass="directory"></ahref="javascript:void(0);">	These links must be changed because people using a browser without JavaScript support will <i>not</i> be able to follow this link.
14.	CSS Validator Errors.	URI: https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.6.3/css/font-awesome.min.css 4	Property font-family doesn't exist: 'MeriendaOne',cursive
15.	WAVE Tool	Municipal Corporation Panchkula Summary WWE has detected the following: 9 Errors 53 Alerts 132 Features 27 Structural Elements 127 Structural Elements 20 LITMLS and ARIA 136 Contrast Errors Panel Options CETAILS: A listing of all the WWE consi nyour page. DOCUMENTATION Explanation of the WWE consi nyour page. OUTLINE: The heading structure of the web page. CLEAN PANCHKULA - GREEN F	WAVE tool mention different errors , warnings, features, contrast errors in www.mcpanchkula.org

