

Accessibility For Digital Contents & Services

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Digital Accessibility to improve User Experience

- Nearly 20% (every 1 in 5) people in the world have some sort of permanent or temporary disability.
- * 71% of disabled users don't use website or application simply because digital content is not accessible.
- Last year, more then 2000 websites accessibility lawsuits were filed by plaintiffs because they were not ADA (American Disability Act) complaint.
- Section 508 of the Rehabilitation Act of 1973 (29 U.S.C § 794 d) & American with disability act of 1990 (ADA)

Disable Group	Common Problems with Digital Contents
Color Blind	 Only color is used as a unique marker to emphasize text on a Web site. Text that inadequately contrasts with background color or patterns.
Deaf	 Lack of captions or transcripts of audio on the Web, including webcasts. Lack of content-related images in pages full of text.
Low Vision	 Web pages with absolute font sizes that do not change. Difficult to navigate when enlarged, due to loss of surrounding context. Web pages, or images on Web pages, that have poor contrast. Text presented as images, which prevents wrapping to the next.
Motor Disabilities	 Time-limited response options on Web pages. Tools that do not support keyboard alternatives for mouse. Browsers and authoring tools that lack keyboard support for all commands.
Blind	 Images that do not have alternative text Complex images (e.g., graphs or charts) that are not adequately described. tables that do not make sense when read serially (in a cell-by-cell or "linearized" mode) Frames that do not have "NOFRAME" alternatives, or that do not have meaningful names Forms that cannot be tabbed through in a logical sequence or that are poorly labelled.
Seizure	Use of visual or audio frequencies that might trigger seizure.

Affinity Mapping

Designers/Architect

Implement accessible Design Principles & Practices.

Universal Design Approach for accessibility.

Policies & Regulations

Inform Laws & Policies (section 508 1973& ADA 1990)

Developing Organizational Policies.

Principles and Standard for accessibility.

Project Managers

Evaluate digital accessibility in organization.

Planning & Managing accessibility in various projects.

Identify available resources and build team appropriately.

Developers

Developers module guide to maintain standard.

Overview of HTML5 accessibility

WAI-ARIA best practices.

Community

Some way to connect with community for contribution.

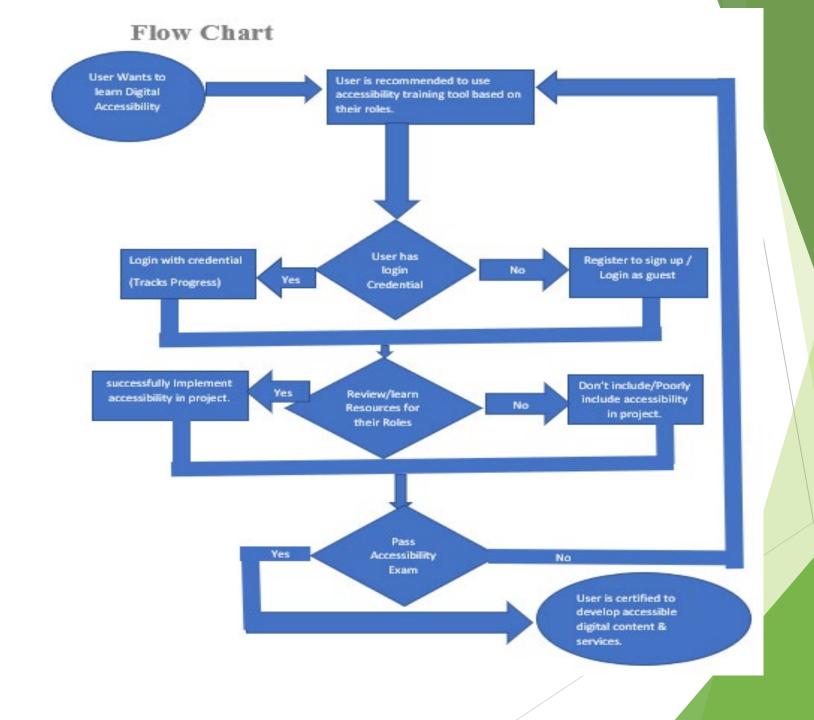
Option to Post, respond or view questions from other community members.

Testers

Identifying test tools.

Following standard reporting tools.

Training for testers.



Persona:

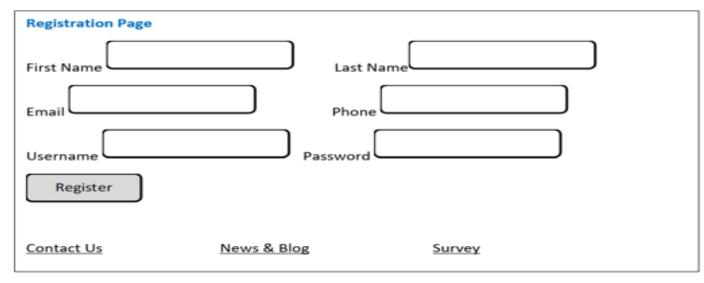
- **\$** User is assigned to a project which is accessible to disable customers.
- User is trying to improve knowledge about digital accessibility to make product & services accessible to everyone.
- User is looking for a tool which provides various resources based on team roles.

Problems Statement:

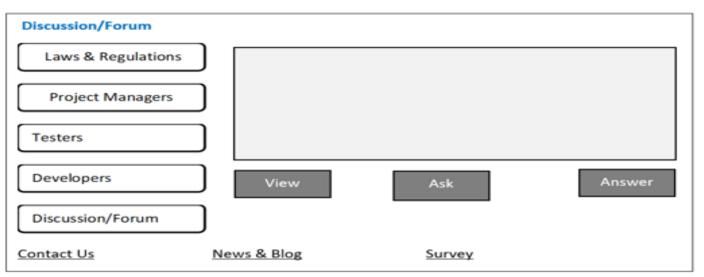
- ❖ Disable users can not get information they need because of physical or mental condition.
- ❖ Accessibility must be considered at each phase of Software Development Life Cycle.
- * Team members must be trained to learn or improve their accessibility skillset to implement in project.

Sketch





Resources Based on Role	s	
Laws & Regulations)	000000000000000000000000000000000000000
Project Managers)	
Testers)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Developers	, xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Discussion/Forum) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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Contact Us	News & Blog	Survey



Story Arc

- ▶ **Introduction**: Digital accessibility is important to share information &/or services for all including disable users to reach out to more users. Team members should have knowledge to implement accessibility in their project.
- Incident: Disable individuals have issue with getting information they need because of lack of accessibility. Team members might not have enough technical skillset about implementing accessibility.
- **Raising Action**: There are some instances of lawsuit action because of accessibility laws.
- ▶ Climax: Accessibility is the law not feature. Team members must get training based on their role to create accessible project.
- **Resolution**: This tool will provide training for our team members based on their roles and responsibilities. If possible, all disable groups should be addressed.
- **Conclusion**: We must consider accessibility while developing digital content or services. Accessibility must be considered every phases of SDLC.

Service Experience

- Improve experience of disabled individuals while accessing digital information or services.
- Improve skillset of team members who are developing, enhancing or maintaining digital information and services.

Wireframe & Prototype

- ► Please check <u>Wireframe & Prototype in Figma</u>
- ► Get copy of project <u>Class Project in GitHub</u>
- **ANY QUESTIONS?**