

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

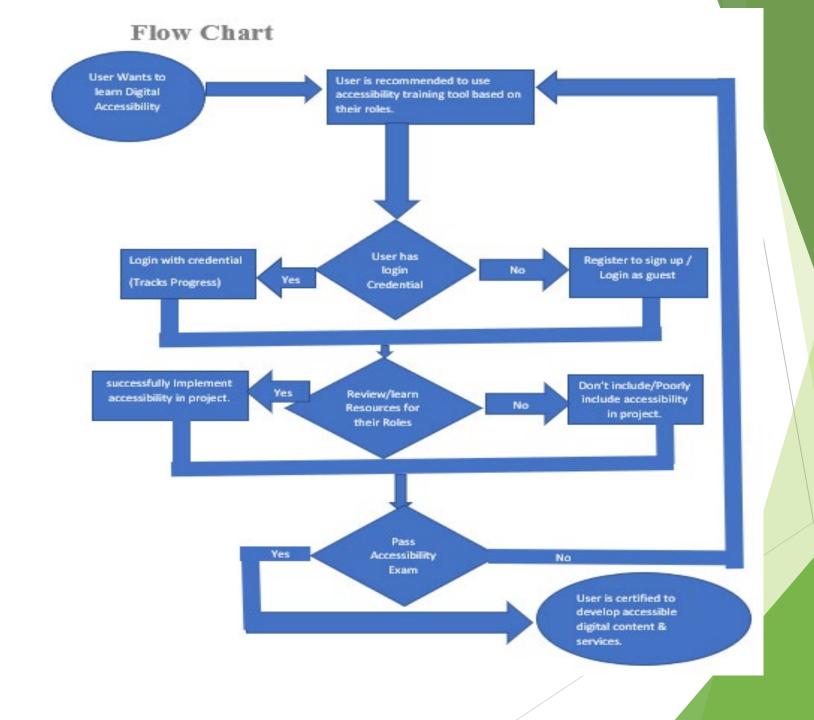
Option to Post, respond or view questions from other community members.

#### **Testers**

Identifying test tools.

Following standard reporting tools.

Training for testers.



#### Persona:

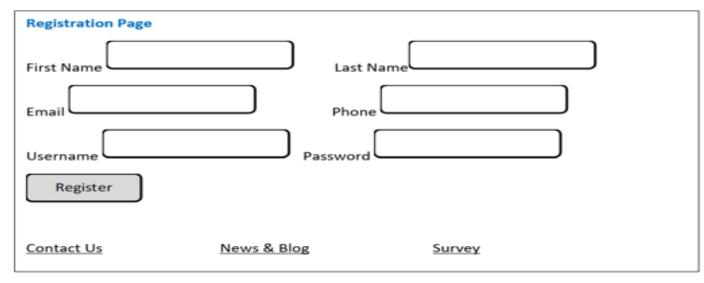
- **\$** User is assigned to a project which is accessible to disable customers.
- User is trying to improve knowledge about digital accessibility to make product & services accessible to everyone.
- User is looking for a tool which provides various resources based on team roles.

#### **Problems Statement:**

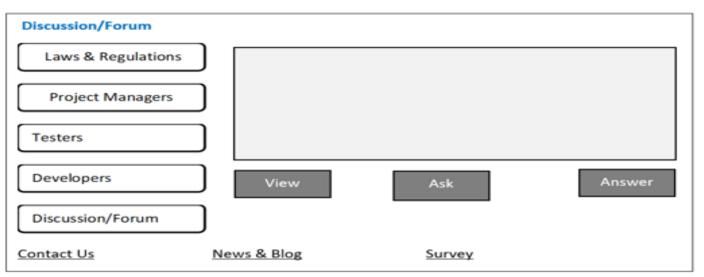
- ❖ Disable users can not get information they need because of physical or mental condition.
- ❖ Accessibility must be considered at each phase of Software Development Life Cycle.
- \* Team members must be trained to learn or improve their accessibility skillset to implement in project.

### Sketch





Resources Based on Role	s	
Laws & Regulations	)	000000000000000000000000000000000000000
Project Managers	)	
Testers	)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Developers	, xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Discussion/Forum	) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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# 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 & Quick Demo

- Please check <u>Wireframe & Design in Figma</u>
- Get copy of project <u>Class Project in GitHub</u>
- Quick demo by running tool in browser (Source code is available in GitHub above)

# **ANY QUESTIONS?**