Final Project Requirements – ATLS 4519

([Resources for user interviews and usability testing](#_Resources_for_Interviews) are located at end of this document)

## Final Project Proposal (14 pts)

Prior to beginning work on your final project, you should submit a proposal with the following items:

* Site you plan to redesign along with a brief description of the site. Include the URL here and in every draft to follow!

<https://www.asharedvision.org/>

A shared vision is a non-profit organization which works with the families of young children who have visual impairments, deaf-blindness, and blindness. The organization provides information, support, and practical assistance for these families in home and community settings.

* The 2 or 3 team members working together on the project.

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* Why you chose this site for redesign (you will be selecting from a list of local organizations that are interested in having their sites checked and corrected for accessibility).

We chose this site because the organization helps people with visual impairments, and we think it is very important for this site to be specifically made accessible and understandable for those with those disabilities the organization attempts to help. There are a few structural errors which would be difficult with a screen reader. Additionally, there are problems with contrast, empty links, alternative text for images which could be improved upon for greater accessibility.

## Final Project Deliverables / Final Project Report

**Final project report should include the following items.**

Important: include the previous components (i.e. from your proposal). Indicate where you have made any changes or updates.

### 1st draft of following (42 pts)

* A brief description of the business or organization.
* Planned site owner or manager to interview (See “[Resources for Interviews and User Testing](#_Resources_for_Interviews)” below for interview and user observation resources). Have you been in contact with the planned interviewee? Have they agreed to an interview?
* Remote user testing – have you located a person who uses assistive technology or has an issue with accessing digital material? It does not have to be someone with blindness. It can be an individual with lack of hand dexterity, dyslexia, learning disabilities, hearing impairments, etc. If you have not located someone, how do you plan to find someone for user testing? (I will also work with you to locate a user).
* Project goal – what do you plan to improve and change with your redesign?
* Heuristic evaluation of current site. There are two in particular that I recommend, both found on the Fluid site: [Usability Evaluation Questions](https://wiki.fluidproject.org/display/fluid/Usability+Evaluation+Questions) and [Simple Accessibility Review Protocol](https://wiki.fluidproject.org/display/fluid/Simple+Accessibility+Review+Protocol). The latter, as you might guess, provides more detailed steps for checking accessibility. (See more “[Resources for evaluating existing & planned sites and for user testing](#_Resources_for_evaluating)” at bottom of document).
* For every issue you uncover during you evaluation indicate your planned correction to the problem and the WCAG guideline that corresponds to the issue. If no guideline corresponds, state that.
* Wireframe of home page (of current site)(use a tool such as wireframe.io. Do not submit a picture of a hand-drawn wireframe).
* Site map of entire (current) site – up to 5 pages (i.e. branches from the home page) & 3 levels down (use the graphics tool within Word or another program to create your sitemap. Do not submit a hand-drawn map).
* 2 persona profiles with disabilities – see the [Fluid guide personas](http://wiki.fluidproject.org/display/fluid/Fluid+Personas) for models and guidance on creating and using persona profiles

Note: your personas do not need to be as extensive as those shown on the Fluid site - pick out the items you think are the most important.

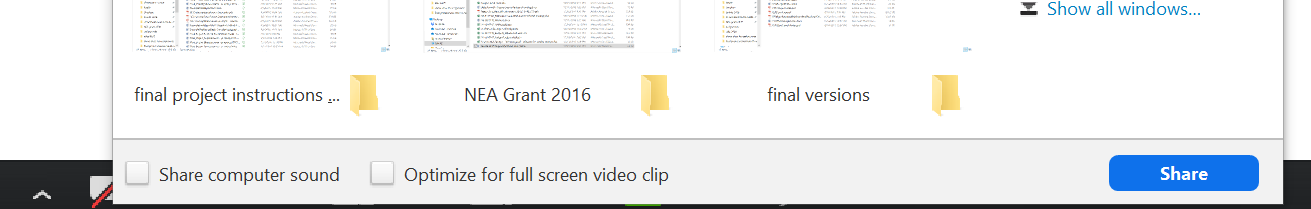
### 2nd draft of above with the additional items below

### (Report - 52 pts.

### Peer Review – 8 pts.)

Important: include the previous components (i.e. from proposal and draft 1). Indicate where you have made any changes or updates.

* Wireframe of at least 2 pages (home page and 1 sub pages) (of your redesigned site). Explain why you are making changes, or if you are not, why you are not making changes.
* Site map of entire site – up to 4 pages (i.e. branches from the home page) & 3 levels down (of your redesigned site). Explain why you are making changes, or if you are not, why.
* Coding and posting of the components of the original site that had accessibility issues.
* **For 24 points extra credit** – code at least 2 full pages of the site. You can use a platform such as Bootstrap, Foundation or a CMS such as WordPress or Drupal. The only limitation is that whatever you use it must produce real and accessible code. Obviously, accessibility changes must be incorporated into your redesign. (This can also be submitted in the 3rd draft).
* Conduct a persona walk-through of the original and redesigned site. Report on your findings. Guidance on conducting a persona walk-through are provided on [the Fluid site](https://wiki.fluidproject.org/display/fluid/UX+Walkthrough+Preparation+and+Execution).
* Remote user testing report of the old site – read the two articles [Remote Testing](https://www.usability.gov/how-to-and-tools/methods/remote-testing.html) and [How to run a remote usability testing](https://uxdesign.cc/how-to-run-a-remote-usability-testing-4350c7786f20) for guidance on how to prepare and carry out remote testing. Note that the latter article talks about and has forms for multiple user testing. You will only be testing with one AT user or someone with access issues. Some other tips:
  + I suggest using Zoom with screen sharing to observe your user’s actions. If they are using a screenreader ask the user to turn on “share computer sound” when they turn on sharing as shown below.



* You can record the session with Zoom with your user’s permission.
* To protect anonymity only use the user’s first name in your report.

### Final version of your final project – 2nd/3rd draft of above, respectively, with the additional items below (62 pts)

Important: include the previous components (i.e. from draft 1 & 2). Indicate where you have made any changes or updates.

* Create a narrated PowerPoint or video as follows:
  + Summarize the changes you made and how the changes have improved or achieved compliance with universal design principles and meeting WCAG 2.1 guidelines. Show before and after screen shots of your changes. You should try to tie your changes to specific principles and/or WCAG 2.1 guidelines we have discussed during the semester.
  + Aim for about 10 to 15 minutes in length and no more than about 20 to 30 slides.
  + Caption your narrated PPT or video.
* Interview report (see interview/testing resources below) - of owner or manager of site – 350 to 600 words.

## For Extra Credit:

* Include an *accessible* form with error messages in your redesign (10 pts.)
* Use ARIA techniques/coding to add semantics or to make a rich application, such as a pull-down menu or collapsible/expandable page sections, accessible (10 pts.)

## Revising prior drafts

**Note: Since the points for the final project increase with each installment of the project you have an incentive to improve your prior drafts. I’ll be grading your project as a whole with each draft. If you improve a prior component, that will increase your grade.**

## Resources for Interviews and User Testing

(most of these were part of our prior readings)

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| refer to  <http://wiki.fluidproject.org/display/fluid/User+Experience>,  particularly the “Interviews & Observation” section: <http://wiki.fluidproject.org/display/fluid/Interviews+and+Observation>.  Also helpful: Jakob Nielson site on “[Field Studies Done Right](http://www.nngroup.com/articles/field-studies-done-right-fast-and-observational/)…”, – found at bottom of Field Study section of above fluid site and 2 resources on “interview techniques” found at the bottom of the “Interviews” section of same page. |

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| Resources for evaluating existing & planned sites and for user testing  * <http://wiki.fluidproject.org/display/fluid/Heuristic+Evaluation>   + For heuristics, the two I most recommend are:     - <http://wiki.fluidproject.org/display/fluid/Usability+Evaluation+Questions>     - [Heuristic Analysis - A System Checklist](http://webdevgroupcu.org/atlas3519/Heuristic%20Evaluation%20Checklist%20(originally%20linked%20to%20on%20Fluid%20site).pdf) is a useful table of principles, created by Deniese Pierotti of Xerox Corporation   (these 2 checklists are large – I recommend choosing 15 to 20 of the ones that seem most pertinent to your project)   * + Other heuristic resources     - Jakob Nielson’s [10 Usability Heuristics for User Interface Design](http://www.nngroup.com/articles/ten-usability-heuristics/) * <http://wiki.fluidproject.org/display/fluid/Cognitive+Walkthrough> (user testing) |