Nielsen Norman Group Heuristic Evaluation Workbook

Use this workbook to conduct your own heuristic evaluation.

For each of Jakob's 10 Usability Heuristics, look for specific places where the interface fails to adhere to the guideline. Write your recommendations for how to fix those usability issues.

Nielsen Norman Group

Heuristic Evaluation Workbook

Evaluator: Tiara Stinson Lavender

Date: 1/25/2024

Product: CATA mobile website Task: Home page accessibility and

interactivity



Visibility of System Status

The design should always keep users informed about what is going on, through appropriate feedback within a reasonable amount of time.

- Does the design clearly communicate its state?
- Is feedback presented quickly after user actions?

Issues

- -The webpages loaded quickly and smoothly. There was no lag and the website uses the white loading indicator underneath the website URL (default on Chrome web browser) to showcase the system status when clicking between pages.
- -There is no indicator hinting at where you are on the webpage itself and how far you've scrolled.



Severity Rating

Cosmetic – need not be fixed

Recommendations

-Have an indicator (ex: progress bar at the top of the page) that can tell users how far they have scrolled.



Match Between System and the Real World

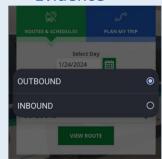
The design should speak the users' language. Use words, phrases, and concepts familiar to the user, rather than internal jargon. Follow real-world conventions, making information appear in a natural and logical order.

- Will user be familiar with the terminology used in the design?
- Do the design's controls follow real-world conventions?

Issues

-The terms "OUTBOUND" and "INBOUND" may be unfamiliar to some users. Some users may also have a hard time translating such terms into their native language.





Severity Rating

Major – needs fixing and high priority

Recommendations

-Using synonyms and more common words such as "departing" and "arriving" may help.



User Control and Freedom

Users often perform actions by mistake. They need a clearly marked "emergency exit" to leave the unwanted action without having to go through an extended process.

- Does the design allow users to go back a step in the process?
- Are exit links easily discoverable?
- Can users easily cancel an action?
- Is Undo and Redo supported?

Issues

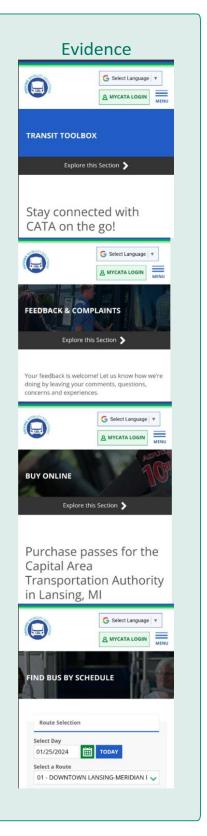
-Aside from the company logo on the top left-hand side of the page, there is no way for users to go back from other webpages, leading to users going through a maze. This impacts users whose devices may not function properly (ex: a cracked screen leading to input issues) or users who are disabled, the most.

Severity Rating

Minor – needs fixing but low priority

Recommendations

-Have an identifiable "back" button to navigate through the pages so that users won't have to start from step 1.





Consistency and Standards

Users should not have to wonder whether different words, situations, or actions mean the same thing. Follow platform and industry conventions.

- Does the design follow industry conventions?
- Are visual treatments used consistently throughout the design?

Issues

- -The "view all alerts" button has a default color of white (when no action is taken to click the button), but the "sign up" and "login" buttons under the "get alerts by email" text changes to white when an action is taken to click the button(s).
- -The "shop for passes" button is green by default and turns a slightly darker shade of green when an action is taken to click the button.

Severity Rating

Major – needs fixing and high priority

Recommendations

- -More consistency with the button colors.
- -Maybe have a color for the primary, secondary, and tertiary buttons.





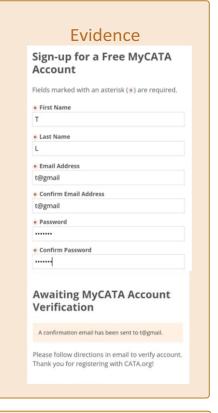
Error Prevention

Good error messages are important, but the best designs carefully prevent problems from occurring in the first place. Either eliminate error-prone conditions, or check for them and present users with a confirmation option before they commit to the action.

- Does the design prevent slips by using helpful constraints?
- Does the design warn users before they perform risky actions?

Issues

-When setting up an account, the website doesn't recognize standard email forms (@gmail.com, @yahoo.com, etc.), so users can sign up for an account using @gmail without the ".com". There are no error messages that say that the email provided is not a valid address.



Severity Rating

Catastrophic – imperative to fix

Recommendations

-Have the system recognize valid and invalid email addresses and give a warning for users to double check their input if an error occurs.



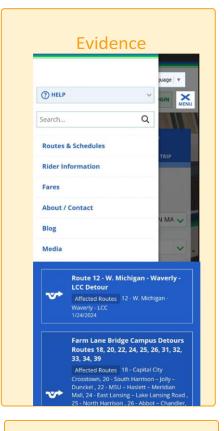
Recognition Rather Than Recall

Minimize the user's memory load by making elements, actions, and options visible. The user should not have to remember information from one part of the interface to another. Information required to use the design (e.g. field labels or menu items) should be visible or easily retrievable when needed.

- Does the design keep important information visible, so that users do not have to memorize it?
- Does the design offer help in-context?

Issues

-The menu is only visible from the very top of the page



Severity Rating

Major – needs fixing and high priority

Recommendations

-Have the navigation bar set to not move when the user scrolls down the webpage.



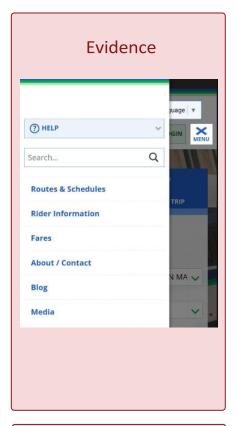
Flexibility and Efficiency of Use

Shortcuts — hidden from novice users — may speed up the interaction for the expert user such that the design can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.

- Does the design provide accelerators like keyboard shortcuts and touch gestures?
- Is content and functionality personalized or customized for individual users?

Issues

-There does not seem to be any shortcuts (unless the menu and "explore this section >" is counted as a shortcut).



Severity Rating

Cosmetic – need not be fixed

Recommendations

-Have more shortcuts available beyond the menu button.



Aesthetic and Minimalist Design

Interfaces should not contain information that is irrelevant or rarely needed. Every extra unit of information in an interface competes with the relevant units of information and diminishes their relative visibility.

- Is the visual design and content focused on the essentials?
- Have all distracting, unnecessary elements been removed?

Issues

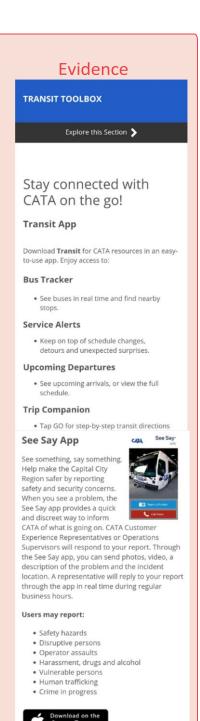
-Clicking on the "report a problem" button at the bottom of the Home page leads to a page advertising the Transit App with no verbiage about filing a report until after the user scrolls down the page.

Recommendations

Minor – need fixing but low priority

Recommendations

-Arrange the layout so that users will know how to file a report before advertising the app.
Maybe include verbiage like
"filing a report can also be conveniently done through the Transit App" after giving details about filing a report in the traditional way.





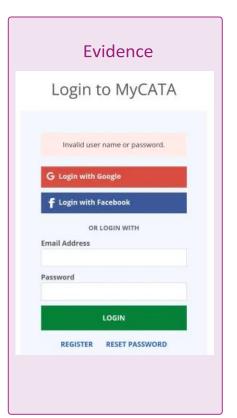
Help Users Recognize, Diagnose, and Recover from Errors

Error messages should be expressed in plain language (no error codes), precisely indicate the problem, and constructively suggest a solution.

- Does the design use traditional error message visuals, like bold, red text?
- Does the design offer a solution that solves the error immediately?

Issues

- -The problem lies in either the username or the password, but there is no indication on which one it is.
- -The error message says "invalid *username*" whereas the email address was asked for in order to login-- not the user name.



Severity Rating

Major – needs fixing and high priority

Recommendations

-Prompt (or nudge) the user to reset their password after so many invalid login attempts.



Help and Documentation

It's best if the system doesn't need any additional explanation. However, it may be necessary to provide documentation to help users understand how to complete their tasks.

- Is help documentation easy to search?
- Is help provided in context right at the moment when the user requires it?

Issues

-Although the website has a "help" option if the menu button (top right-hand side) is clicked and there is a "explore this section >" strip on some pages, a user who is not tech-savvy or exploring the website for the first time can easily get lost in the multiple webpages.

Severity Rating

Minor – needs fixing but low priority

Recommendations

-Make a FAQ page that will either answer FAQs and/or direct them to the page where their question can be answered in detail.

Evidence

Routes & Schedules

Trip Planner

Live Bus Tracking

Find Bus by Schedule

Contact - Feedback & Complaints

Ride to Hope

Stops & Departures

Find Bus by Service

Fixed Routes

Search Routes by Schedule

Special Events

MSU Gameday Shuttles

East Lansing Art Festival

Ingham County Fair Shuttle

Limiteds

Curb-to-Curb & Paratransit

Connector

Redi-Ride

Spec-Tran

CATA Rural Service

MSU Lot Link

MSU Night Owl

Shopping Bus

Detours & Rider Alerts

Event Detours

Snow Detours

Football Detours

Where can I Ride?

MSU Campus East Lansing - Okemos - Haslett

LCC Campus

Cooley Campus Downtown Lansing Area

Public Meeting Notice - Proposed Service

Changes

Rider Information

How do 1?

Read a Schedule & Service Changes

Buy Passes & Pay Your Fare

Board & Leave the Bus

Make a Transfer Find Lost Items

Find Lost Items

Reserve or Cancel a Curb-to-Curb Trip

Use Bike Racks & Lockers

Transit Toolbox

Lansing School District Maps &

AmBUSsador Program

MSII Parent Informatio

MSU Student Information

Disability Resources

Feedback & Complaints

Holidays

Safety & Courtesy Tips

Customer Experience

Customer Experience

Privacy & Security

Terms of Use Your Rights and Title VI

Contact CATA

Translated Documents

Explore Ingham County Parks with CATA