



Ethics Suite

Heuristic Evaluation – April 11, 2019



USABILITY INSPECTION METHODS



Heuristic Analysis

It gives you a comprehensive status of the UI's usability. 3-5 usability experts will review the product and compare it against pre-defined principles (the heuristics).



Cognitive Walkthrough

The cognitive walkthrough (CW) is a task focused heuristic evaluation where one or more usability experts work through a series of tasks and ask a set of questions from the user's perspective.



User testing

User testing refers to evaluating a product or service by testing it with representative users. Typically, during a test, participants will try to complete typical tasks while observers watch, listen and takes notes.

MEET THE EVALUATORS

DESIGN & USER EXPERIENCE TEAM MEMBERS



BEN
UX ARCHITECT
PRODUCT MANAGER

Benjamin is considered a subject matter expert in product strategy, user research, and human factors psychology. His work can be seen through such brands as Polo, Northrop Grumman, and HBO. As an information architect, he developed the global taxonomies for Exxon Mobil and DuPont. Benjamin is a pragmatic advocate of strategies taken from Lean Startup, Design Thinking, and Agile software development. His domains of expertise include artificial intelligence, ecommerce, technology, healthcare, financial services, and pharmaceutical. Benjamin is an alumni of Virginia Tech, where he studied Business, Psychology, and Visual

Communication.

LUCID AGENCY | HEURISTIC EVALUTATION



KAT
SENIOR DESIGNER
LEAD UX

With more than 12 years of agency experience, Kat brings her award-winning design abilities to each of our clients. She has wide-ranging design capabilities, including photography, video editing, animation, website and landing page design, brand development, user interface design, information architecture, traditional ad design, and so much more. Whether you are looking for out-of-the box ad designs or innovative website architecture, Kat is your go-to guru. Kat earned her Bachelor of Fine Arts from Fort Hays State University, with a concentration in graphic design.



RO
DESIGNER & UX

Roderic is a problem solver who blends appealing visual experiences with effective marketing strategies. In order to produce work that gets results, he believes a good designer must understand human behavior. How they think, how they choose, and how they buy. For some time now, he has had the pleasure of working on digital and print campaigns to optimize conversion and growth for our clients. While working closely with content, marketing, business analysis, and development departments, he helps lead production, modification, and maintenance of website and web app designs.

TEN USABILITY HEURISTICS

It takes knowledge and experience to apply the heuristics correctly. These ten are considered some of the most critical to graphical user interface design.



Visibility of system status



Recognition rather than recall



Match between system and the real world



Flexibility and efficiency of use



User control and freedom



Aesthetic and minimalist design



Consistency and standards



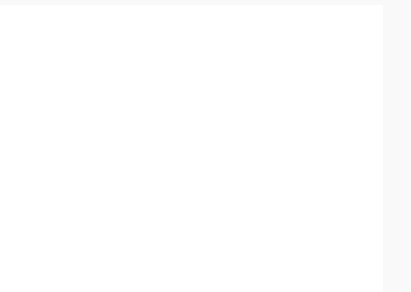
Helps users recognise, diagnose, and recover from errors



Error prevention



Help and documentation



VISIBILITY OF SYSTEM STATUS - CHECKLIST

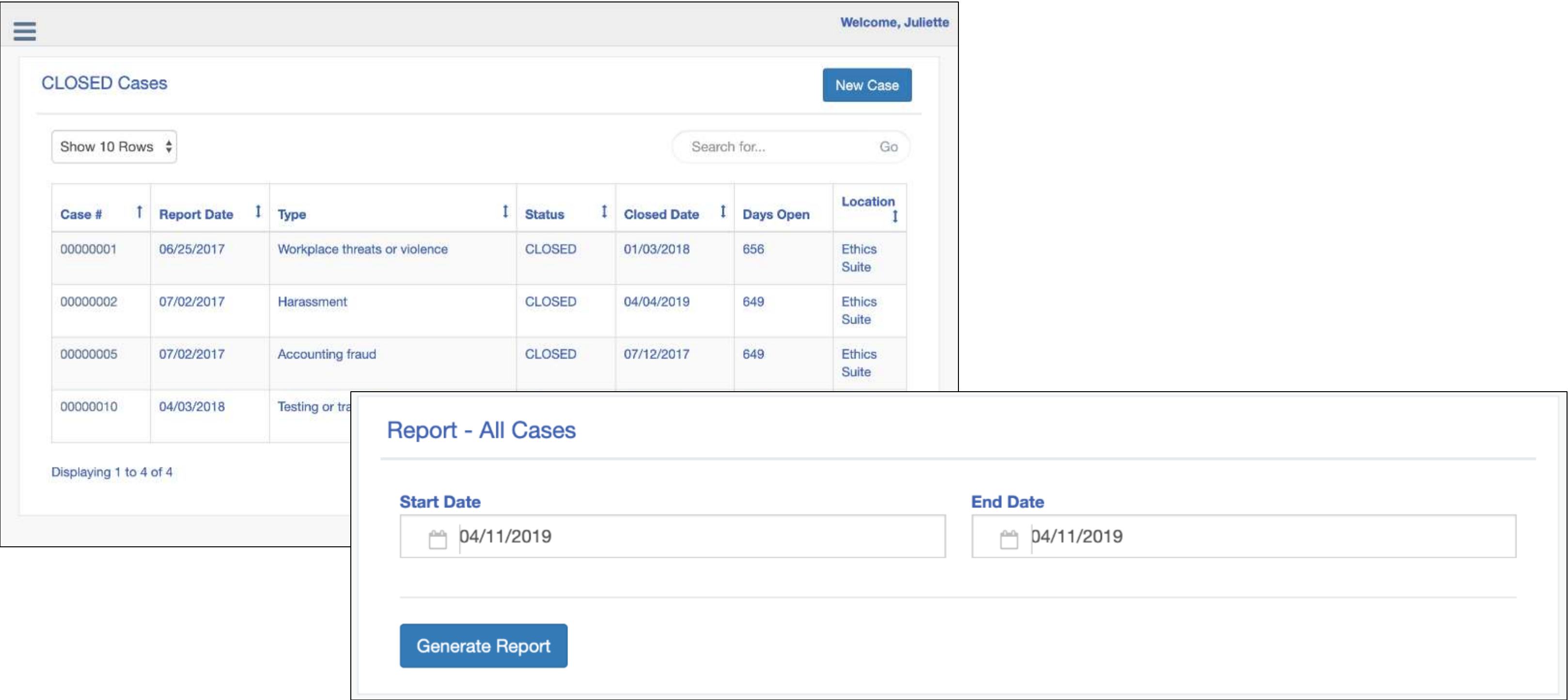
The system should always keep users informed about what is going on, through appropriate feedback within a reasonable time.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 1 . 1 Does every display provide a title and/or header that describes screen content? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1 . 2 Is there some form of system feedback for every operator action? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1 . 3 Is there a consistent icon design scheme and stylistic treatment across the system? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1 . 4 Do menus & error messages appear in the same place(s) on each menu? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

VISIBILITY OF SYSTEM STATUS - UI EXAMPLE

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

1.4 Do menus & error messages appear in the same place(s) on each menu?



Inconsistent placement of navigation elements.

MATCH BETWEEN SYSTEM & REAL WORLD - CHECKLIST

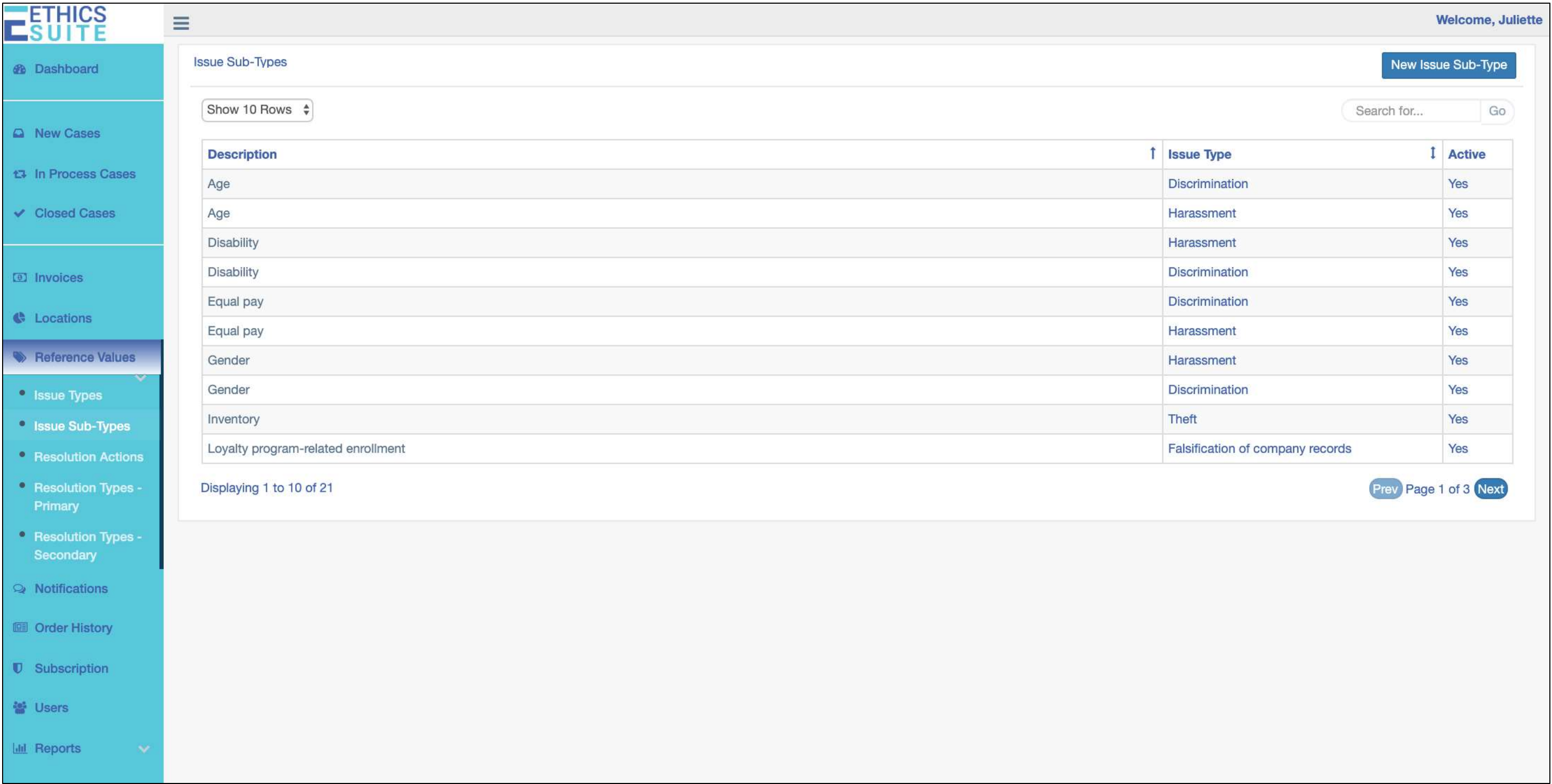
The system should speak the users’ language, with words, phrases and concepts familiar to the user, rather than system-oriented terms. Follow real-world conventions. Make information appear in a natural and logical order.

| | Yes | No | NA |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 2 . 1 Do the selected colors correspond to common expectations about color codes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 . 2 Does the command language employ user jargon and not computer jargon? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 . 3 Do menu choices fit logically into categories that have readily understood meanings? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 . 4 Are icons concrete and familiar? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ATCH BETWEEN SYSTEM & REAL WORLD – UI EXAMP

The system should speak the users’ language, with words, phrases and concepts familiar to the user, rather than system-oriented terms. Follow real-world conventions, making information appear in a natural and logical order.

2.2 Does the command language employ user jargon and not computer jargon?



“Reference Values” is not user language but system jargon.

USER CONTROL AND FREEDOM

Users often choose system functions by mistake and will need a clearly marked “emergency exit” to leave the unwanted state without having to go through an extended dialogue. Support undo and redo. Support system confirmations.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 3 . 1 Are users provided affirmations and confirmations when using a command? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 . 2 Can users reduce data entry time by copying and modifying existing data? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 . 3 Can users move forward and backward between fields or dialog box options? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 . 4 Can users personalize the names of fields and other areas they may want to customize? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

USER CONTROL AND FREEDOM – UI EXAMPLE

Users often choose system functions by mistake and will need a clearly marked “emergency exit” to leave the unwanted state without having to go through an extended dialogue. Support undo and redo. Support system confirmations.

3.1 Are user provided affirmation and confirmations when using a command?

My Profile

First Name

Juliette

Last Name

Gust

Email

jgust@ethicssuite.com

Phone

3053019603

Password

Change Password

Save

No feedback or confirmation that the form was saved.

CONSISTENCY AND STANDARDS - CHECKLIST

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

| | Yes | No | NA |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 4 . 1 Does the information design facilitate the task structure? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4 . 2 Do forms adhere to best practices around sequencing and progressive disclosure? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 . 3 Are field labels consistent from one data entry screen to another? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 . 4 Are saturated colors – like blue – avoided for text or other small, thin line symbols? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

CONSISTENCY AND STANDARDS – UI EXAMPLE

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

4.2 Do forms adhere to best practices around sequencing and progressive disclosure?

What is the issue type?

Theft

What is the issue subtype, if any?

✓ Not Applicable

Inventory

Loyalty program-related theft

Money

Time

*Required

What is the issue type?

Unfair termination

What is the issue subtype, if any?

✓ Not Applicable

Fields should be hidden until qualified fields are selected.

ERROR PREVENTION - CHECKLIST

Even better than good error messages is a careful design which prevents a problem from occurring in the first place. Either eliminate error-prone conditions or check for them and present users with a confirmation option before proceeding.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 5 . 1 Are prompts brief and unambiguous? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 . 2 Are error messages worded so that the system, not the user, takes the blame? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 . 3 Do error messages indicate what action the user needs to take to correct the error? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 . 4 Are error messages in proximity of the error they are trying to correct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ERROR PREVENTION – UI EXAMPLE

Even better than good error messages is a careful design which prevents a problem from occurring in the first place. Either eliminate error-prone conditions or check for them and present users with a confirmation option before proceeding.

5.3 Do error messages indicate what action the user needs to take to correct the error?

Company Profile

Company

Ethics Suite

Address

28150 N Alma School Rd. Ste 103-215

City

Scottsdale

State

AZ

Zip

85262

Country

United States

Contact Person

Juliette Gust

Title

President

Email

jgust@ethicssuite.com

Phone

3053019603

Landing Page

Better than correcting errors is a design that prevents errors. Some of the above fields are required. Why not tell the user which ones, prior to submission?

RECOGNITION RATHER THAN RECALL - CHECKLIST

Minimize the user’s memory load by making objects, actions, and options visible. The user should not have to remember information from one part of the dialogue to another. Instructions should be visible or easily retrievable.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 6 . 1 Are buttons, cues, and messages placed where the eye is likely to be looking on the screen? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 . 2 Is white space space used to create symmetry between interface elements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 . 3 Have items been grouped into logical zones, and have headings been used to distinguished between zones? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 . 4 Are required/optional data entry fields clearly marked and titled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

RECOGNITION RATHER THAN RECALL – UI EXAMPLE

Minimize the user’s memory load by making objects, actions, and options visible. The user should not have to remember information from one part of the dialogue to another. Instructions should be visible or easily retrievable.

6.4 Are required/optional data entry fields clearly marked and titled?

The screenshot shows the 'ETHICS SUITE' 'New Case' form. The form is divided into two columns. The left column contains a sidebar with navigation links: Dashboard, New Cases, In Process Cases, Closed Cases, Invoices, Locations, Reference Values, Notifications, Order History, Subscription, Users, Reports, Company Profile, My Profile, and Logout. The right column contains the 'New Case' form. The form has a header 'New Case' and a 'Welcome, Juliette' message. The form contains several input fields with red borders and red asterisks indicating required fields. The fields are: 'Which location is being reported about?' (dropdown), 'What is the reporter's full name?' (text), 'What is the reporter's email address?' (text), 'What is the issue type?' (dropdown), 'What word best describes the reporter?' (dropdown), 'What is the issue subtype, if any?' (dropdown), 'How did the reporter become aware of it?' (dropdown), 'Has this issue been reported before?' (dropdown), 'Who is the reporter writing about?' (text), 'How long has it been going on?' (dropdown), 'What is the estimated amount involved, if applicable?' (dropdown), 'What is the issue?' (text), and 'What is a brief summary of the issue?' (text). A 'Save' button is at the bottom.

Required fields aren't indicated until form has been submitted.

FLEXIBILITY & EFFICIENCY OF USE - CHECKLIST

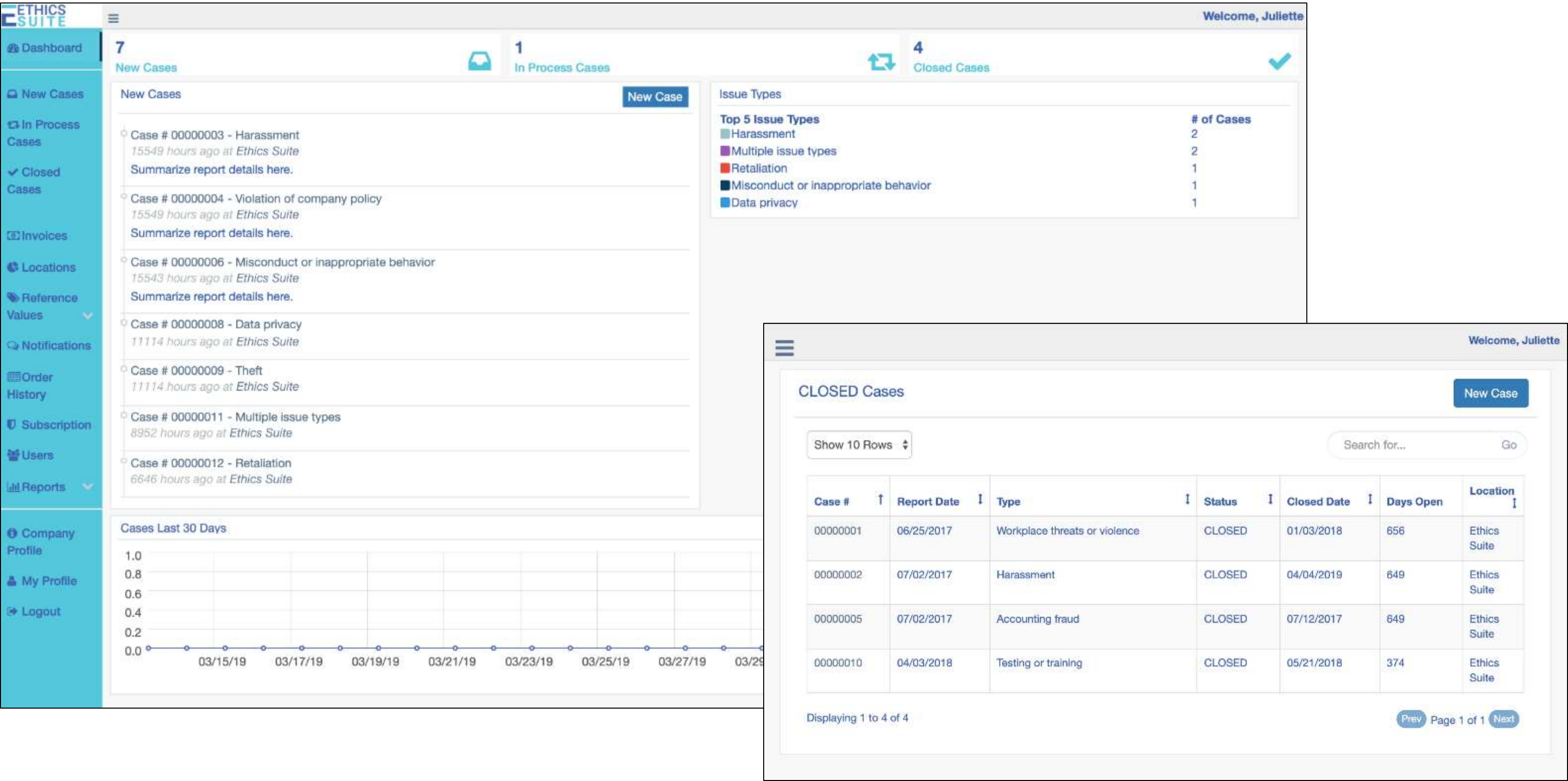
Accelerators – unseen by the novice user – may often speed up the interaction for the expert user such that the system can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.

| | Yes | No | NA |
|--|--------------------------|-------------------------------------|-------------------------------------|
| 7 . 1 Is the interface designed to help novices and experts move fast? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7 . 2 Do certain screens – like dashboards – permit customization based on the use of functions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7 . 3 Are keys on the keyboard designed to navigate forms? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7 . 4 Does the application provide filtering, search, and advanced search? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

FLEXIBILITY & EFFICIENCY OF USE - CHECKLIST

Accelerators – unseen by the novice user – may often speed up the interaction for the expert user such that the system can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.

7.4 Does the application provide filtering, search, and advanced search?



No advance search offered across the platform.

AESTHETIC & MINIMALIST DESIGN - CHECKLIST

Dialogues should not contain information which is irrelevant or rarely needed.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 8 . 1 Are all icons in a set visually and conceptually distinct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 . 2 Does each icon or navigation options stand out from its background? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8 . 3 Are meaningful groups of items separated by white space? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 . 4 Are menu titles brief, yet long enough to communicate? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

AESTHETIC & MINIMALIST DESIGN – UI EXAMPLE

Dialogues should not contain information which is irrelevant or rarely needed.

8.2 Does each icon or navigation options stand out from its background?



Sub-menu choices are not visually distinct. In addition, the menu directional arrow indicates there are more sub-menu choices. There are not.

HELP USERS RECOGNIZE & RECOVER FROM ERRORS

Buttons, error messages, and message prompts should be expressed in plain language (no codes), precisely indicate the problem, and constructively suggest a solution. They should follow best practices.

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 9 . 1 Are error messages consistently placed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 . 2 Do error messages provide enough information to understand the problem? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 . 3 Are error messages distinct in appearance? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 . 4 Do buttons, error messages, and message prompts follow common design conventions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

HELP USERS RECOGNIZE & RECOVER FROM ERRORS

Buttons, error messages, and message prompts should be expressed in plain language (no codes), precisely indicate the problem, and constructively suggest a solution. They should follow best practices.

9.4 Do buttons, error messages, and message prompts follow common design conventions?

Update Details?

Are you sure you want to update these details?

✕ Cancel

✓ Confirm

What is the difference between the Cancel button and the Close icon

Check Application Status

Please enter the following information to check the status of your application.

Last Name

Last 4 digits of your Social Security Number

ZIP Code

E-mail Address

Check Status

Check Application Status

Please enter the following information to check the status of your application.

Last Name

This is a required field.

Last 4 digits of your Social Security Number

ZIP Code

Check Application Status

Please enter the following information to check the status of your application.

Last Name

Last 4 digits of your Social Security Number

abcd

Should only contain numbers.

ZIP Code

E-mail Address

Check Status

Example of multiple best practices in error message design, contextual help, and error prevention/recovery.

HELP & ONLINE ASSISTANCE - CHECKLIST

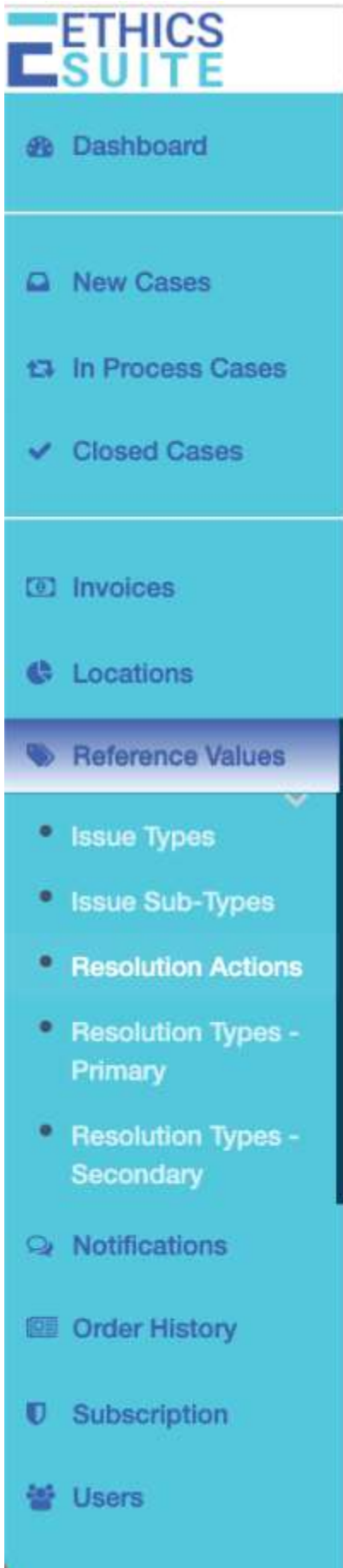
The system should provide contextual help and job aids to assist users. Such information should be easy to search and easy to find.

| | Yes | No | NA |
|---|--------------------------|-------------------------------------|-------------------------------------|
| 1 0 . 1 Does the system provide user assistance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1 0 . 2 Can the user find online help – through documentation and/or videos – to aid them in their tasks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1 0 . 3 Can users switch easily between assistance and their work? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1 0 . 4 Are contextual cues provided that provide immediate feedback? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

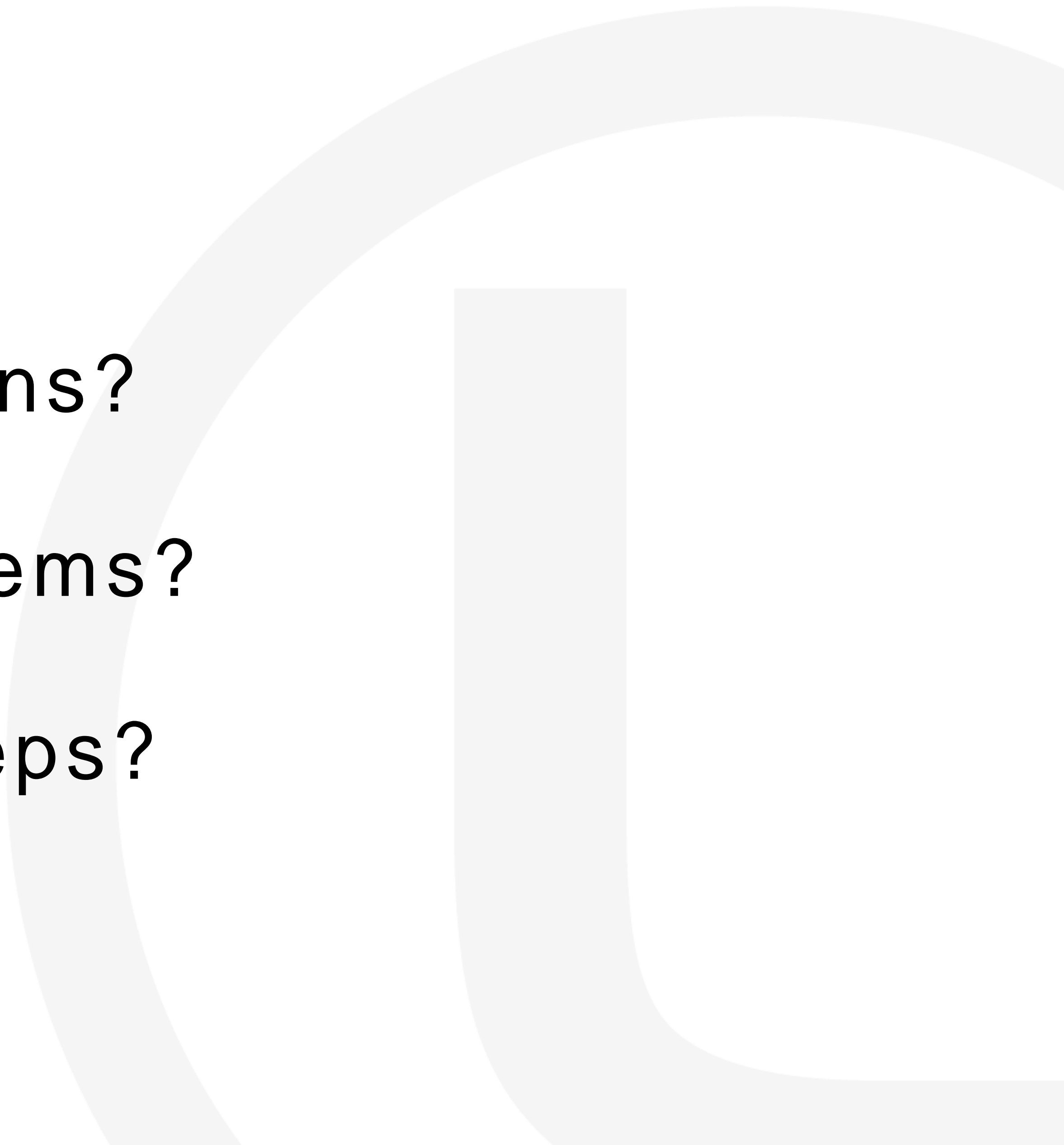
HELP & ONLINE ASSISTANCE – UI EXAMPLE

The system should provide contextual help and job aids to assist users. Such information should be easy to search and easy to find.

10.1 Does the system provide user assistance?



No online assistance and/or help can be found or accessed.



Questions?

Action Items?

Next Steps?