Kellar Instructional Handheld data (KIHz) System

Formative Evaluation

KIHz Design Team Findings

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Expert Reviews

ABA Expert Review Comments and Suggestions

- “Can’t see full text on admin page in drop down menus”
- “A link is needed to connect the admin side of the system with the data collection
- “Exit system needs to be made a button.”
- “No default prompts should be checked.”
- “Accuracy is graphed differently.”
- “Ability to view a more complete graph”
- “A need for anecdotal information.”
- “The ability to make corrections on the system (an edit button) or and undo feature.”
- “Current two pages of admin system possibly should have different order.”
- “I did not know if I had to press the “add” button when I typed in the name. Everything else was clear”
- “There wasn’t a back button and you couldn’t do anything once you made a mistake”
- “I’d like to see proof of having entered names or data…….. it feels that the lack of a back button and no confirmation when a name is added can make or break a user.”
- “In my mind accuracy is best represented in percentages and the best way to display it visually would be with a pie chart”
- “I really like the breadcrumbs, they are really helpful”
- “It will also be helpful to have something that will reflect how the results of a child reflect in relation to his or her peers or a child in a typical situation. Something like the height and weight scale for children.”

What bubbled up?

1. The need for an initial login screen that is password protected with three links:
   - Data Collection
   - View Graph
   - Add or Define tasks, students, teachers

2. Other graph options to represent the data types of duration, accuracy and fluency.

3. The need for a back and clear button or both (or possibly undo)

4. A place for collecting anecdotal notes

5. The need for a dictionary of terms

6. The need to extend the drop down menu boxes

7. Link to connect administrative side of the KIHd system to the PDA portion.
8. Administrative page order should be changed to have the add teacher, student etc selections come before the define tasks attributes.

9. The need for confirmation pages. (either a page or pop up for user to confirm data before proceeding)

10. Make exit a button

11. There should be no default prompts

**Instructional Design Expert Review Comments and Suggestions**

**ISD Expert Findings**

ŷ “I loved the use of drop-down menus. They were cool…very interesting.”
ŷ “I was not sure what to do in order to add a new teacher. The buttons that read ‘add teacher, add student, etc’ were very confusing.”
ŷ “I could not find link at he bottom of the page that reads ‘Back to admin page’.”
ŷ “The word ‘distracters’ is confusing.”

**What Bubbed Up?**

1. Select all admin fields at once rather than consecutively and submit once.

2. Prevent duplication of admin field content

3. Populate Task list according to area being added

4. Alpha-numerically order selections

5. Confirmation on selection submission.

6. Bread crumbs visible during entry and use, and invisible by clicking an icon.

7. Common system interface for PDA and PC

8. ‘Back’ and ‘clear’ buttons

9. Full page, dialog box, or pop-up screen confirmation


11. Change ‘Choose Phase’ to ‘Phase’
12. Replace Yes / No with Check-mark / X-mark

13. View Chart icon replaced by button.

14. Data entry directly into trial response fields

15. Improve internal instructions

16. Use consistent and best terminology

17. Single system on both PC and PDA

**Lessons Learned**

- The process revealed the numerous errors in the functionality and flow of what we hitherto thought was an organized sequence of information.

- The process enabled the team to swap processes and function and actions to occur at more appropriate places without having to redesign the whole process again.

- The task analysis provided an opportunity to make revisions until there was a description of what each user must know to perform each task.

- Overall, it has provided us with an accurate model of user/system interaction.