

## Survey

*A team of faculty members at [university name] ([faculty names]) are investigating how to improve courses on human computer interaction and related topics. The purpose of this survey is to help us understand student's awareness of the needs of users of technology. This voluntary survey is confidential and will not affect your course grade in any way.*

*Please note that once you start the survey, you will not be able to go back.*

1. Enter your first and last name. This survey requests that you provide your name and identity so that results can be analyzed over time; however, your name and identify will remain confidential (only available to the investigators on the research team)

2. What is your [university name] email ID? This will help identify you in case of multiple students having the same name.

For the following questions (Questions 3 and 4), refer to the following scenario:

In order to meet recently revised federal legislation, the state of New York has charged your organization with the task of developing new electronic voting kiosks. In the past, all voting was conducted in person or via mail-in ballot.

Each registered voter was mailed a voting card. The card was presented when the voter goes to the designated voting precinct for in-person voting. No ballots were given to voters without their voting cards. These voting cards will continue to be used with the new kiosks.

The new system focuses on in-person voting. Each registered voter who wishes to vote in-person must be able to do so independently. The new system needs to be very secure in terms of making sure that each person can vote no more than once, that their votes are accurately counted, and that the votes are archived securely. Also only the precinct officials and any other general election officials should have access to the results at any time. Each person's ballot must be formatted in a consistent manner, which conforms to state ballot format standards. After the voter finishes voting, the kiosk prints the ballot, which is submitted to the precinct official for archiving. Only in-person voting is supported in the new system.

The kiosks need to respond quickly to the voting selections made by the voters. Also the vote count reports need to be well organized and clearly formatted. The voting official (at the precinct) must verify the vote counts at his/her station by double-checking the totals from all voting kiosks three times. For all 3 times, the totals must be the same. If there is a discrepancy, then the precinct official must count the votes by hand, and submit the results to the county voting office in person.

3. If you are to design the user interface for the system, what are the key points that you need to keep in mind in terms of the task of voting itself?

4. What potential voters will you test the kiosk prototype with in order to gain feedback on the new kiosk design?



	Agree very much	Agree pretty much	Agree a little	Disagree a little	Disagree pretty much	Disagree very much
After frequent contact, I find I just notice the person not the disability	<input type="radio"/>					
I feel overwhelmed with discomfort about my lack of disability	<input type="radio"/>					
I am afraid to look at the person straight in the face	<input type="radio"/>					
I tend to make contacts only brief and finish them as quickly as possible	<input type="radio"/>					
I feel better with disabled people after I have discussed their disability with them	<input type="radio"/>					
I dread the thought that I could eventually end up like them	<input type="radio"/>					

6. Please enter any comments that you have here regarding any of the statements in Question 5. This is optional.

7. For various reasons, it can be difficult for some people to use current computing technology. You may have personal experience with this (such as through a family member or friend) or you may be aware of this through other means. Please indicate whether you are familiar with some specific challenges that people have when using computers, mobile devices, and the web – or whether you or someone you know well has personal experience with this -- for the following people:

	I have knowledge of this	I have personal experience with this
People who have low vision	<input type="radio"/>	<input type="radio"/>
People who are blind	<input type="radio"/>	<input type="radio"/>
People who are deaf or hard of hearing	<input type="radio"/>	<input type="radio"/>
People with autism	<input type="radio"/>	<input type="radio"/>
People with learning disabilities	<input type="radio"/>	<input type="radio"/>
People with intellectual disabilities	<input type="radio"/>	<input type="radio"/>
People with motor or movement disabilities	<input type="radio"/>	<input type="radio"/>
Older people	<input type="radio"/>	<input type="radio"/>

8. If you answered “I have personal experience with this” to any of the items in Question 6, please explain:

9. I know how to design websites and software to ensure that it is accessible for the following people:

I have heard or read about this

I have done this before

People who have low vision

People who are blind

People who are deaf or hard of hearing

People with autism

People with learning disabilities

People with intellectual disabilities

People with motor or movement disabilities

Older people

10. I understand how the following aspects of website design affect people with disabilities:

	I'm familiar with this issue	I have taken this issue into account to make the site more accessible for people with disabilities
The use of cascading style sheets (CSS)	<input type="radio"/>	<input type="radio"/>
The use of alt text for images	<input type="radio"/>	<input type="radio"/>
The use of headings for tables	<input type="radio"/>	<input type="radio"/>
The labels on elements of forms	<input type="radio"/>	<input type="radio"/>
The content of the underlined text of hyperlinks	<input type="radio"/>	<input type="radio"/>
The use of captions for videos or sounds	<input type="radio"/>	<input type="radio"/>
The use of headings (H1, H2, etc.)	<input type="radio"/>	<input type="radio"/>
The use of event handlers (e.g., onFocus)	<input type="radio"/>	<input type="radio"/>
The use of different colors on a page	<input type="radio"/>	<input type="radio"/>
The use of diagrams or images to accompany text	<input type="radio"/>	<input type="radio"/>

11. I understand how the following aspects of software or mobile-app design affect people with disabilities:

I'm familiar with this issue

I have taken this issue into account to make it more accessible for people with disabilities

Ensuring compatibility of the user-interface with screen reader technology

Supplying higher resolution or vector graphics to support magnification or enlargement

Providing information content redundantly through both visual and audio channels

Providing access to all elements of the user interface via keyboard commands

Limiting the complexity of text information content on the user-interface

Avoiding the use of messages that require a response from the user in a fixed time limit

12. I have previously been involved in the design/development of websites or software.

Yes

No

13. When I worked on the design/development of a website or software, I considered issues of users with diverse abilities in my work:

Yes

No