Shweta Sali
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Interests

Research in HCI, Usability, Designing and developing for ubiquitous computing, voice based systems.

Research Experience

Working as a Research Associate in IDC, IIT Bombay since August 2008 in the field of HCI under prof. Anirudha Joshi. I have been involved in various phases of system designing viz. Contextual Inquiries, Affinity and Usability Testing. I have three international research paper publications.

International Research Papers

1. Neha Madame, Shweta Sali, Debjani Roy; People living with HIV(PLHA); *IndiaHCI 2010*
   In this paper we aim at sensitizing the design community in general, and interaction designers in particular about the problems and possible solutions. In this review paper, we discussed the problems of PLHA in India which are summarized from the literature and some preliminary visits to HIV AIDS clinics, and various design ideas that point to solutions.

2. Shweta Sali, Anirudha Joshi; Application for Freelance Truck Drivers in India; *Ubicomp 2009; Florida; ACM 2009*
   In this paper we present ideas for a mobile application that helps long-distance freelance truck drivers find and manage customers. It details the findings from our initial contextual inquiries. We have listed the features of the application and its improvements and described the findings from a usability test.

3. Nikhil Welankar, Kirti Kanitar, Viraj Sapre, Keyur Sorathia, Neha Madame, Shweta Sali; Customizing Contextual Inquiries in Multicultural, Multilingual Rural India; *CHI 2009; Boston; ACM 2009*
   This paper discusses our experiences and outlines some of the challenges we faced while conducting contextual inquiries in rural and semi-urban India. It talks about the effects of cultures and languages on contextual inquiry in rural India and makes some recommendations to bridge the socio-cultural gap between the user and the interviewer.

Workshops Attended

1. Nokia QT Workshop, IIIT Bangalore by FORUM NOKIA held in May 2010.
2. Workshop on 'Human Computer Interaction' by Prof. Anirudha Joshi, IDC, IITB held in August 2008.

Projects in IDC

1. **Devnagari Text Input for touch based devices, Nokia,** *using Qt4*
   Ongoing Project. Implementing a touch based method for devnagari text input in Nokia N900 using QT4. Also working on Accelerometer based text input mechanism. We are creating 4 text input methods, depending on usability tests results one of the input method shall be deployed in Nokia N900.

2. **Developing Mobile based Applications for People living with HIV/AIDS, Johnson & Johnson**

Conducted around 70 Contextual Inquiries in Maharashtra, Andhra Pradesh, Tamil Nadu and Manipur. We have developed an Interactive Voice Response system (IVRS). We are testing the usability of the IVRS and the interface. Till date we have conducted 42 usability tests in rural areas in Pune dist. and in Konkan region.

3. **Developing Internet based Applications for Developing Economies, Nokia**

A series of studies of a cross section of semi-urban and rural India that helps us understand the different communities in India with reference to mobile phones and digital networks.
Proposed Applications:

- An application for Freelance Truck Drivers to help find and manage customers.
- Accounting system for SHGs, accounts book in their mobile to manage their monthly savings, loans and do their money transactions.
- Online system which provides interaction between poly house farmers and consultants.- Mobile App for farmers and Web App for consultants.

Technical Skills

Programming	Java, J2ME, QT
Prototyping	Adobe Flex 3, Flash, Flash Lite
Web Development	HTML, CSS

Education

Degree	Name of the Institute	% Marks	Year
BE (IT)	CCOEW, Pune, Pune University	**66.05**	2008
HSC	R.Y.K College, Nashik, Maharashtra Board	**77.17**	2004
SSC	St.Francis High School, Nashik, Maharashtra Board	**84.53**	2002

Selected Academic Projects

Steganography in MMS, *J2ME*

In this project, text steganography was performed on .png image. Such steganography was performed first time in mobile application using J2ME. The image was sent over the network via MMS, this MMS at reception is then decrypted and the hidden message is retrieved.

Contraption

Perform the task of turning on radio with maximum energy conversions. We managed the task by converting potential energy-kinectic-rotational-heat-intramolecular, etc.

Other Achievements

- Second Prize in Paper Presentation competition held at 'AISSM'S Institute of Information Technology' 2007 on the topic 'Data warehousing and Data mining'.
- I was an active member of the organizing committee for national level technical event-INNOVATION 2007.
- I have organized 'Crystal Maze' competition for INNOVATION 2007.

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