

Avaaj Otalo

NEIL PATEL

DEEPTI CHITTAMURU

ANUPAM JAIN

PARESH DAVE

TAPAN PARIKH

Introduction

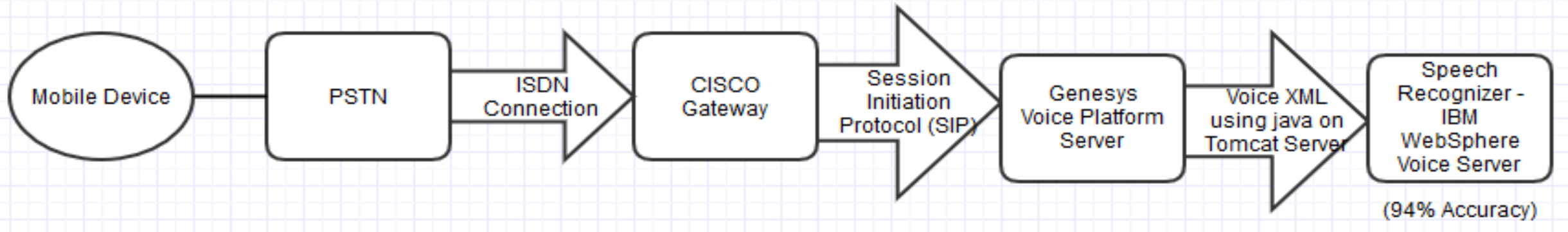
- ▶ Voice is a natural and accessible medium for many small farmers
- ▶ An appropriately designed voice message forum could allow farmers to learn from best practices, the advice of experts, and the experiences of one another
- ▶ Aavaaj Otalo was a seven month pilot project
- ▶ 51 farmers used this system over 7 months
- ▶ Aavaaj Otalo was designed in the summer of 2008 as a joint project of Development Support Center (DSC), an NGO in Ahmedabad, Gujarat, India, and IBM India Research Laboratory, based in New Delhi
- ▶ It was an interactive, on-demand informational resource that would complement a weekly Gujarati radio program produced by DSC, called “Sajjata No Sang, Lave Kheti ma Rang”

Features

- ▶ Question and answer forum
 - ▶ **limited functionality:** users could not search for or filter content, and it would play only up to two answers for each question (one from a DSC staffer and one from another farmer). Users were limited to 30 seconds for each question or answer they record.
- ▶ Announcements Board
- ▶ Radio Archive
 - ▶ Users browsed the archive by listening to 30 second summary recordings and then choosing to listen to the full 15 minute program, or continue browsing

Implementation

4



Pilot Deployment

5

▶ Participants

- ▶ The 51 pilot participants were selected from 4 districts across the state
- ▶ Participants had an existing relationship with DSC
- ▶ No more than one participant was chosen from a single village
- ▶ 19 had an eighth-grade education or less, 20 had completed some high school and 6 had completed college
- ▶ The median age was 29, with a range of 18 to 60. The median land-holding was 10 acres, with a range of 0 to 60

▶ Data Collection

1. Log of system navigation
2. Transcription and manual coding of questions and answers
3. interviews with Avaaj Otalo users and others in their communities

Study Findings

6

- ▶ Traffic Overview
 - ▶ Over the seven-month pilot, 6,975 calls were made to AO
 - ▶ 45 (71%) called the system at least once
 - ▶ Of the 36 AO users that were interviewed, 65% named it as the AO feature they liked the most (the remainder liked the radio archive)
 - ▶ The 10 most frequent callers accounted for over 80% of overall calls, with the top 3 accounting for 60%
- ▶ Usability
 - ▶ Input Modality
 - ▶ Errors
 - ▶ Navigating the forum
- ▶ Forum Content and Usage
 - ▶ Questions
 - ▶ Responses

Social Dynamics

- ▶ Introductions
- ▶ Moderations (of the content posted)
- ▶ Intermediated Access
- ▶ Social Status
- ▶ Core Users

Other Uses

- ▶ AO as Entertainment
- ▶ AO as Business Consulting
- ▶ AO as Advertising

Discussion

- ▶ Use Touchtone
- ▶ Need for structured and Open Spaces
 - ▶ overwhelming preference for answers that came from institutionally credentialed “experts” over peer farmers
 - ▶ To prevent this misunderstanding, and the possibility of spreading misinformation, DSC recommended that they approve all content before it appears on the forum
- ▶ Leveraging Social Ties or Perpetuating Inequality?
- ▶ Complement Social Media with Traditional Media (benefit because of DSC)
- ▶ Financial Sustainability

Conclusion and Future Work

- ▶ Voice can be a suitable medium for online communities in the rural developing world
- ▶ How to make user-generated voice content easier to navigate and search is still an open problem

Thank You!