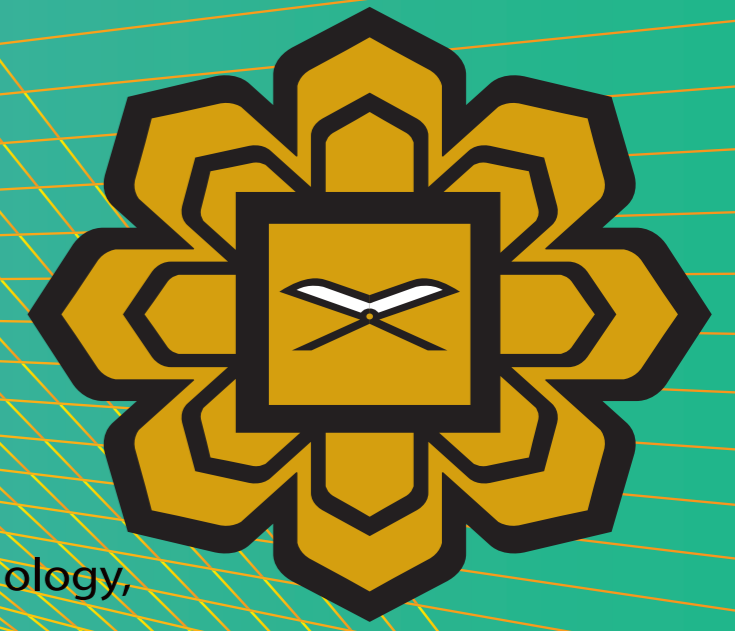




iSpeechNews : A Real Time Speech News Service For Ubiquitous Computing Environment



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ABSTRACT

iSpeechNews is a prototype which delivers a real-time news service, in the form of graphics and speech news, based on user location for Ubiquitous Computing Environment. The prototype is based on a protocol that requires five important hybrid stacks, i.e. 1. User identity, 2. User location, 3. A real time news feeder, 4. Speech and dictations systems and 5. Lips phonetic synchronization. The aim is to prove easy interactions in the form of speech between user and the mobile computing environment while the user is on the move.

OBJECTIVES

- To provide easy interactions between a user and the mobile computing environment in delivering specific form of news in speech
- To provide solution/facility for users to get real-time news updates, using a push concept, rather than a pull concept
- To develop iSpeechNews as a life scenario on how computing environment can deliver intelligent responses, directly, to the user, based on user location, in the form of graphics animation and speech news

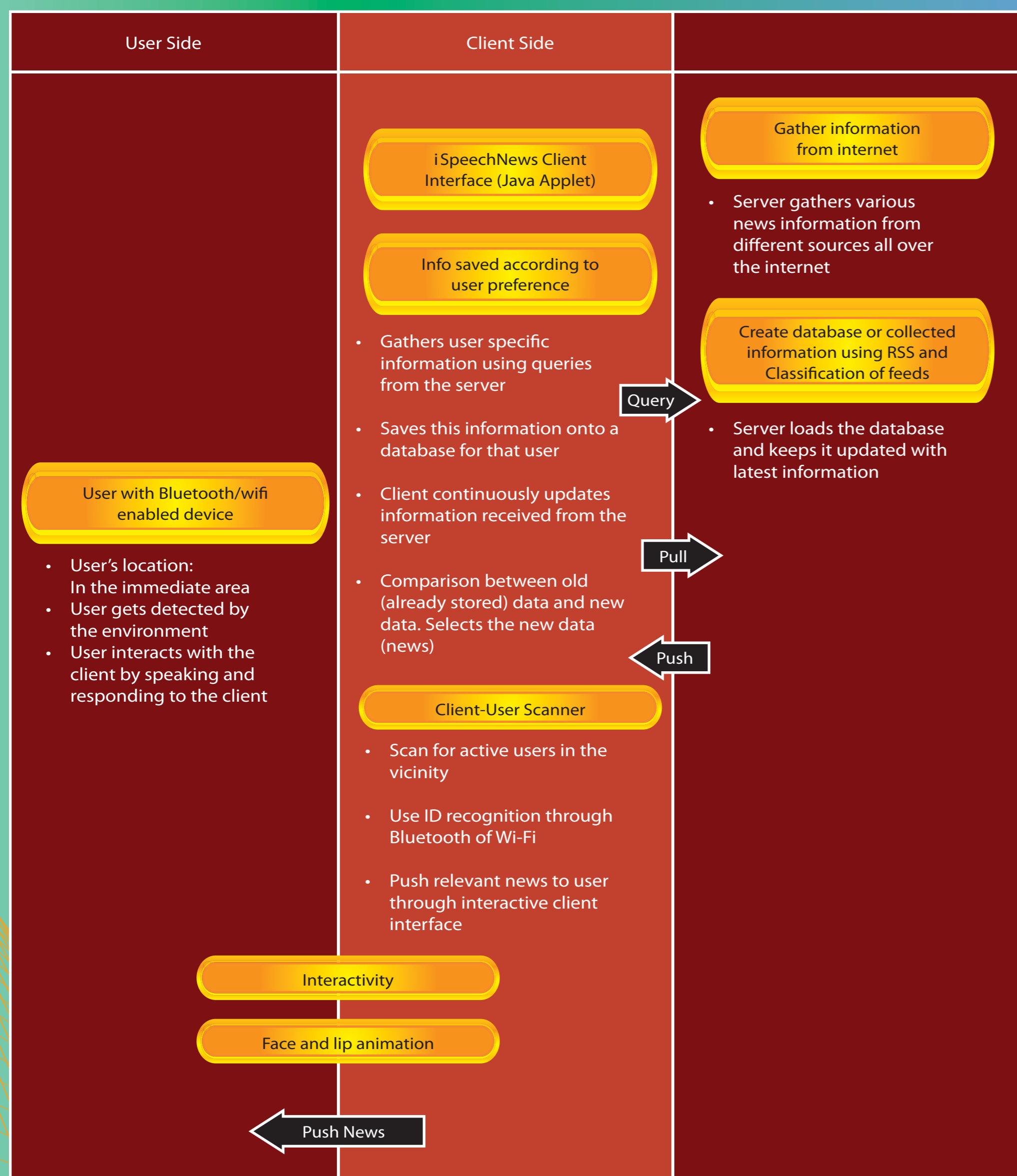
METHODS

irSpeechNews architecture :
iSpeechNews hybrid protocol stacks

Attribute	Hybrid protocol stack Core Process	Program application
Who (user identity)	User identity (mobile user)	User identity: java
Where (user location)	User location (determination user location based on IEEE802.11 or Bluetooth)	myLoCA: java (dynamic nk-NN algorithm)
Response (from Environment)	User Interface Lips synchronization (phonetic synch to image)	Lips synchronization: java Synch graphic image and phonetic speech
		RSS feed Classification of feed
		Speech and dictation (grammar, etc.) speech java.api

ir-SpeechNews
Service delivery

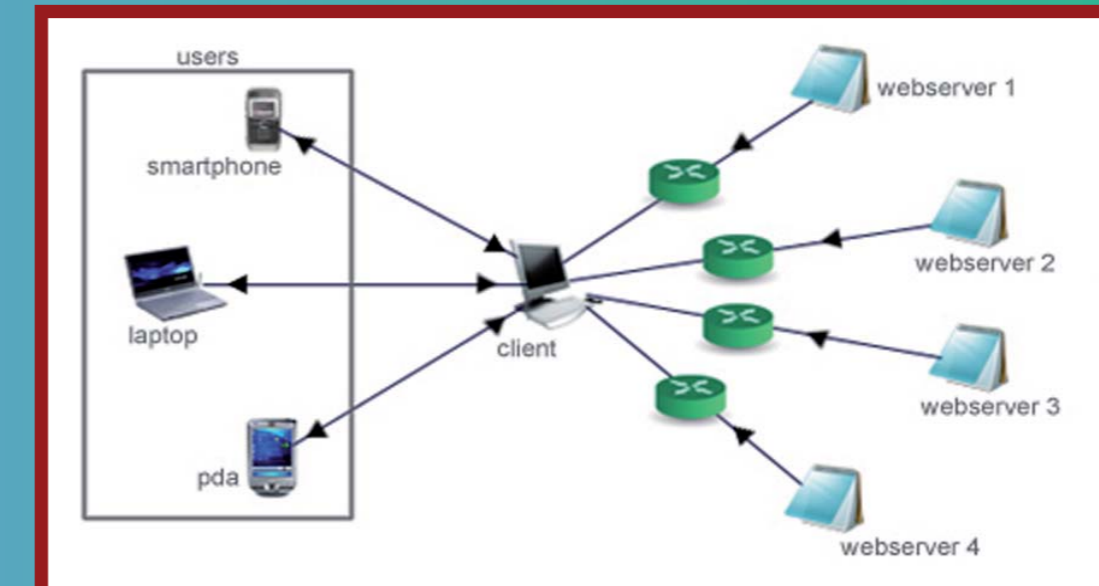
iSpeechNews User, Client & Serve: Speech based news delivery based on user scanning and recognition



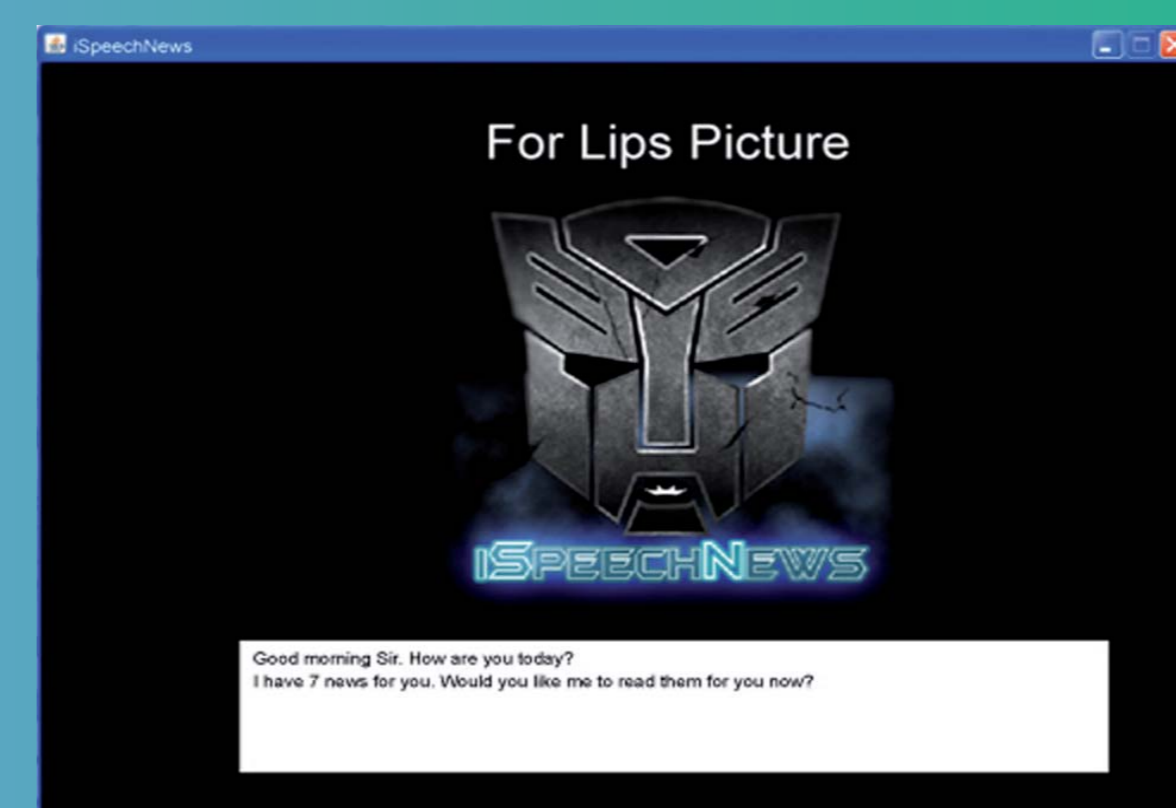
PATENT PROCESSING

Patent process of: "iSpeechNews: A Real Time Speech News Service for Ubiquitous Computing Environment", 11 August 2009. Ref. No.:DYJ/UIA/0292/2009, by Teddy Mantoro, Media A. Ayu and Abi Dzar Jaafar, processing through Norizan Technology Sdn Bhd (<http://www.norizan2u.com.my>)

RESULTS AND DISCUSSIONS



Speech News and lip graphic animation



Target Market

- People who are public figures (politician, celebrity) who care about their image in the society
- Businessmen (public relations) including their competitors
- Anyone who likes to keep updated on current news

CONCLUSIONS

- iSpeechNews attempts to simplify the daily user load. It delivers the news to the user in the time needed, and therefore saves the user the effort manually searching for news
- iSpeechNews delivers a real-time based news service using the push method as compared to the previous pull method
- This attempts to change the way news and information are delivered to the users by providing advanced interactive methods in the form of facial interactivity and lip graphic animation directly to the current user location

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