

Emilia

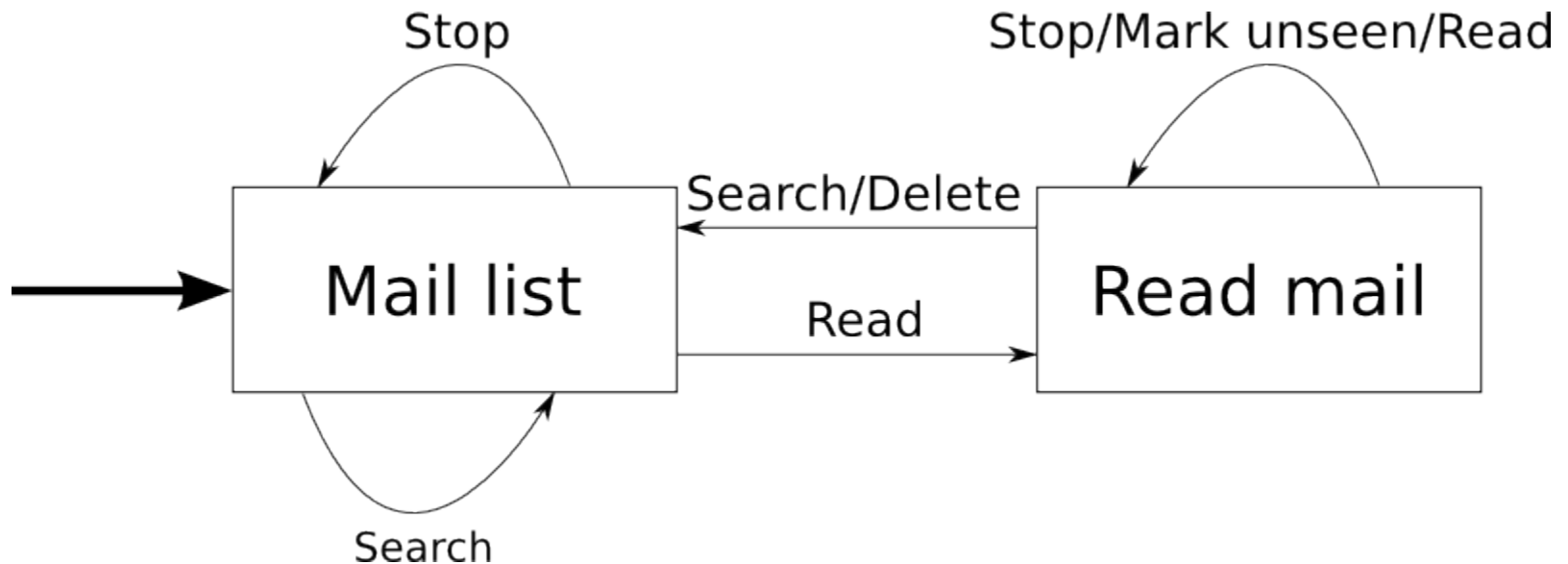
A Dialog System for E-Mail Managing

Joan Puigcerver i Pérez
joapuipe@upv.es

Overview

- Built on top of Voxeo Evolution platform
 - ASR and TTS provided by Voxeo
- Uses IMAP to retrieve the mail inbox
- Users can search for:
 - New mail
 - Mail on a specific date
 - All mail in the inbox
- Emilia can read any mail in the inbox tray
- Users can also delete or mark mails as unseen

Dialog flow



(Some) User commands

- *Emilia, mostra'm els correus nous*
- *Busca tots els correus*
- *Mostra'm els correus d'ahir*
- *Llegir el correu 3*
- *Esborrar el missatge*
- *Marca com a no llegit*
- *Para*
- *Eixir*
- *...*

Dynamic grammars

- Grammars are specified using grXML
- Dynamic grammars are PHP scripts building the correct grXML file
- Understanding the full date
 - *Busca correus del dia 3*: Date=03-C_Month-C_Year
- Understanding the mail ID from the inbox tray
 - *Mostra'm el correu número 1*: UID=32

Demo

Watch...

Future work

- Configuration for multiple users
 - Right now, the mail account is configured statically in a PHP file
- Voice recognition for user authentication
- Ability to write mails from voice
- Additional search options
- User/Message-dependent language

Voxeo: Pros and Cons

- + Really easy to build a VoiceXML application
- + We can test our app at no cost (Skype calls)
- + Great logging system for VoiceXML files
- Connection problems and delays
- Bad debugging of grXML grammars
- Grammars, really? Where are the n-grams!?
(Needed to allow generic e-mail dictation)