

RadioMate

Radio Automation Made Easy



A Freifunk GsoC project
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Community Webradios

- Fusoradio (Rome)
- Radio Blau (Leipzig)
- ...



Fusoradio



- Webradio in Rome
 - Ninux HQ: Fusolab
- Distributed Wjs
 - Stream from home
- But:
 - Server-side close-source software



Architecture

- Backend, manages web radio transmissions:
 - Interacts with the Icecast server
 - Manages the different types of transmission (i.e. live, recorded, playlist only, etc)
 - Gives control to the different WJs at the right time (for live transmissions)
 - User management
 - Audio files/playlist management
 - Daemon + CGI (JSON API)

Architecture

- Web Frontend
 - No CMS/Server side scripting: HTML+jQuery

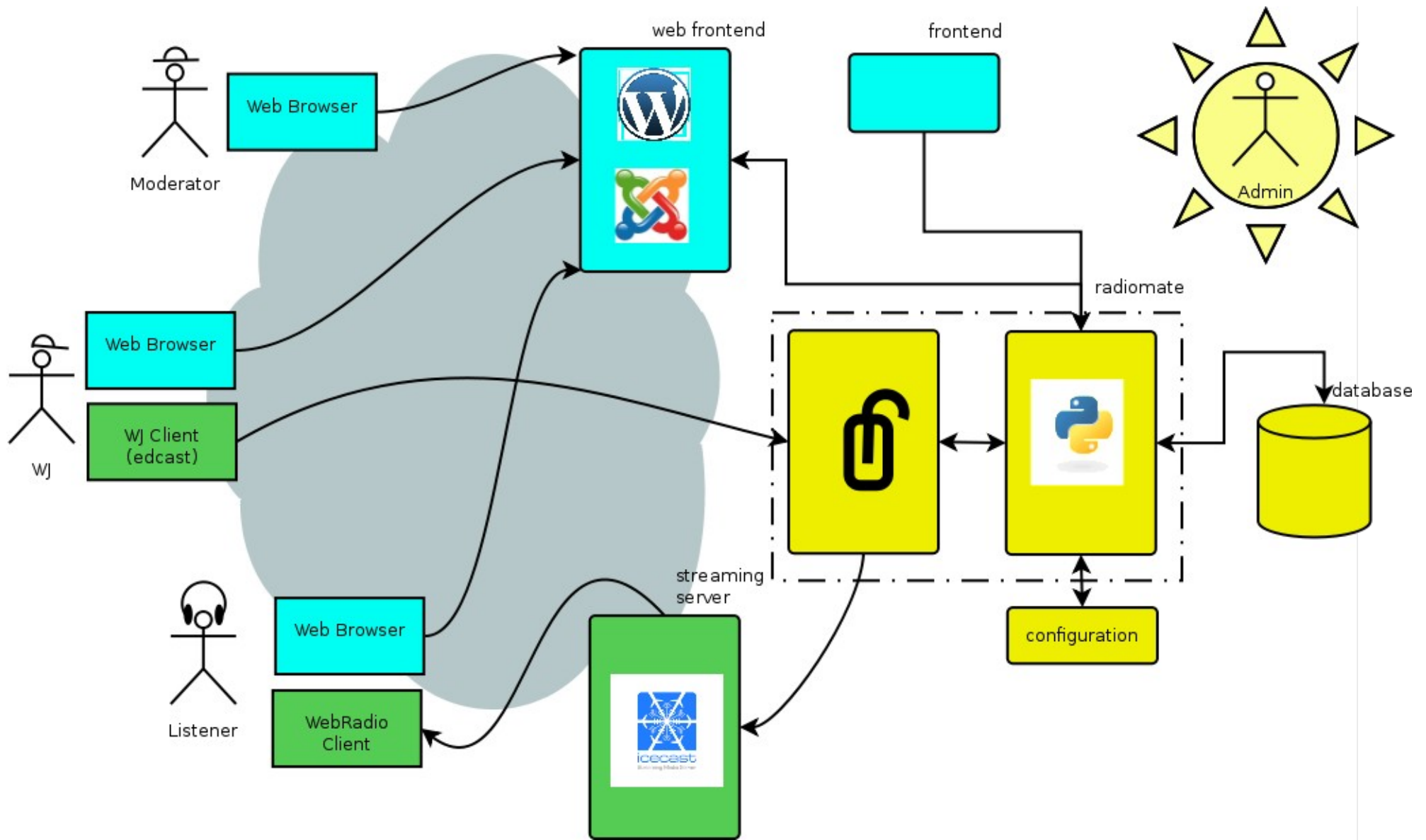
Architecture

- Icecast client (not part of Radiomate):
 - Used by WJs to transmit and by listeners to listen

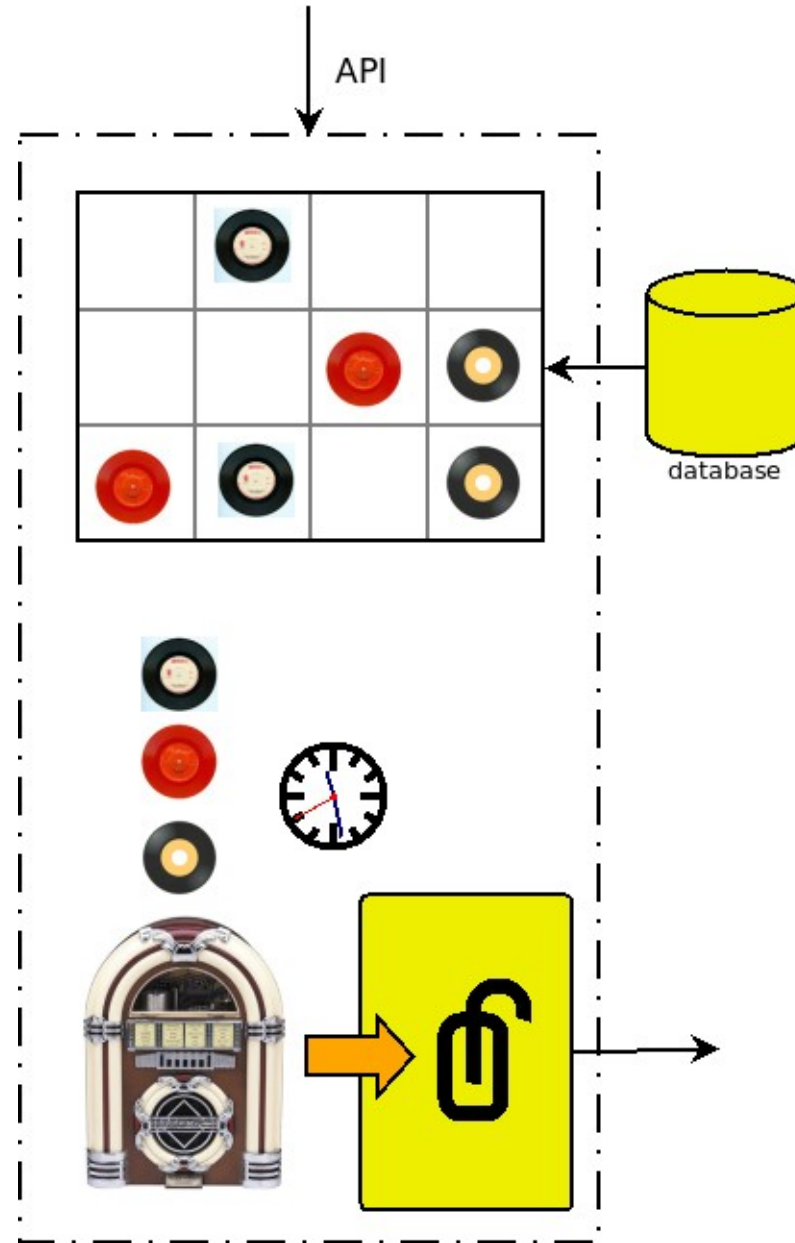
- Audio Stream Generator
- Mix into one stream different sources:
 - Playlists
 - Uploaded files
 - Live streams
- Many other features...



Architecture



RadioMate



RadioMate Temporary Demo

- <http://radiomate-tmp.ninux.org>
- Username: **foobar**
- Password: **secret**
- Icecast stream:
 - <http://radiomate-tmp.ninux.org:8000/radio.mp3.m3u>

RadioMate

- Source code: <http://radiomate.org>
- Still needs:
 - Work on usability
 - Having more transmission types (e.g. IRC controlled transmission type), which can be coded as plug-ins
 - Testing and debugging

Thank you



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