

ECHELONEWS

MULTIPLEX NEWS FROM ALL OVER THE WORLD

WHAT IS IT?

ECHELONEWS IS A NEWS
MULTIPLEXER

IT FETCHES NEWS FROM ALL
OVER THE WORLD, CLASSIFYING
THEM BY TOPIC AND GIVING
THEM BACK TO USERS
ACCORDING TO THEIR
PREFERENCES

MULTIPLEXING PARAMETERS CAN
BE ORIGIN COUNTRIES AND
RELATED TOPICS

TECNOLOGIES USED

TECNOLOGIES:

- EXPRESS
- AMQPLIB
- PINO
- PEERSEST
- VALIDABLE
- PASSPORT
- BODY-PARSER
- JSONWEBTOKEN
- BCRIPT

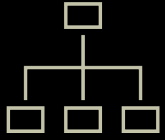
External services:

- GOOGLE OAUTH2 API
- GOOGLE TRANSLATE API
- NEWS FETCHER THAT RETRIEVE RSS FEEDS

Testing:

- MOCHA
- CHAI
- CHAI-HTTP
- DOTENV
- NOCK
- SINON

RED EDGES: EXTERNAL INTERACTIONS
GREEN EDGES: INTERNAL RESTFUL CALLS
PINK EDGES: INTERNAL AMQP CALLS



Scalability

A modular architecture is the basis for infrastructure elasticity



Modularity

The project is split in separated, independent modules



Resilience

A failing module compromises just the own-provided functionalities

ARCHITECTURE BENEFITS

MODULES



RESTful API

It interfaces with a plethora of separated independent microservices to provide echelonews functionalities



Web frontend

It uses the api as it were an external service, being completely separated from the infrastructure



News fetcher

Fetch news via the rss protocol from various websites and pass them to the news organizer as a json object.



News organizer

Organize news and save them in a permanent data structure offering a simple restful service

MODULES



News Multiplexer

According to topic or category and return them to a user interface microservice.



User Handler

Management of user is handled by the user handler



Oauth Bridge

Act as a bridge between the Web Frontend and the User Handler