

HOMER

HACK4MED - APPS PRESENTATION

Turin, 9th July 2014

AXANT TEAM/ OPEN ROSETTA

Piedmont – Italy



The problem

Designing our open data application for HACK4MED we realised that we had to tackle **different data formats** and structures.

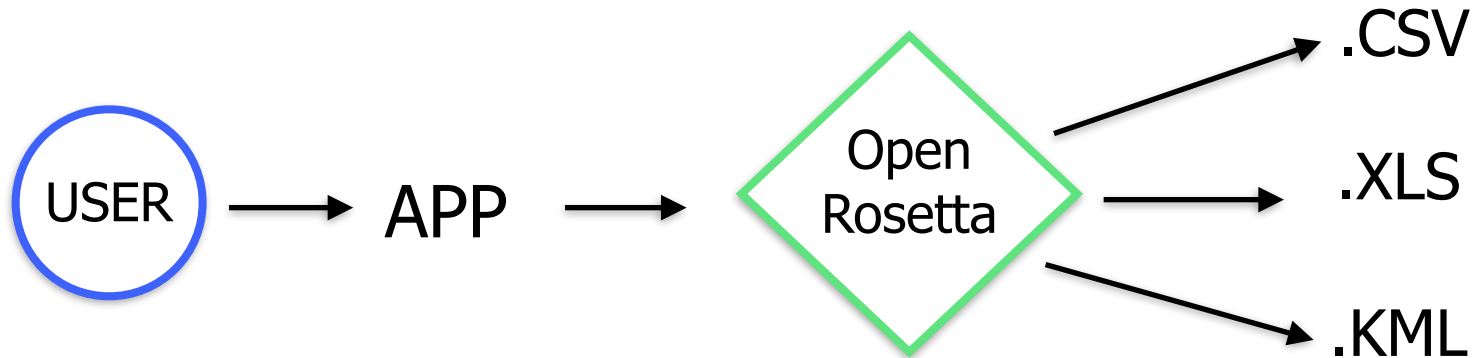
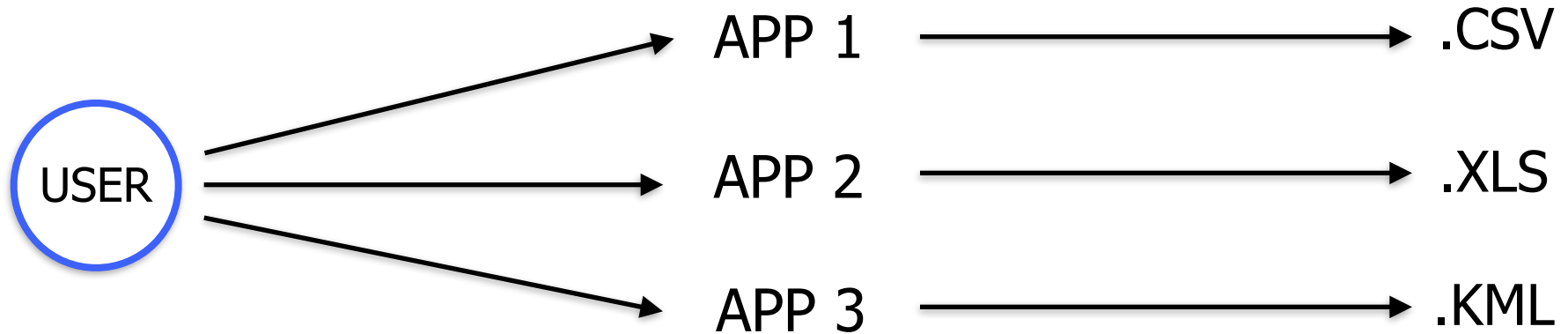
Instead of developing “**one application**” we would actually have to create **multiple apps**, one for each data format made available.

The Solution = Open Rosetta

Named after the Rosetta Stone:

- Translates **different** data formats (CSV, XLS, KML) to a **single** format developer has to learn: JSON
- Converts **different data structures** to a **single list of documents**. No need to learn how to tackle each document schema.

Why OpenRosetta?



Demo Apps

Thanks to Open Rosetta we have been able to actually create two applications in the remaining time of the hackaton:

- **PickYourPhysician:** Show available doctors in Piedmont to choose your family doctor from.
 - Available for Android & iOS platforms
- **PowerList:** Display Power Plants in Italy and Spain
 - Available for Web Browsers

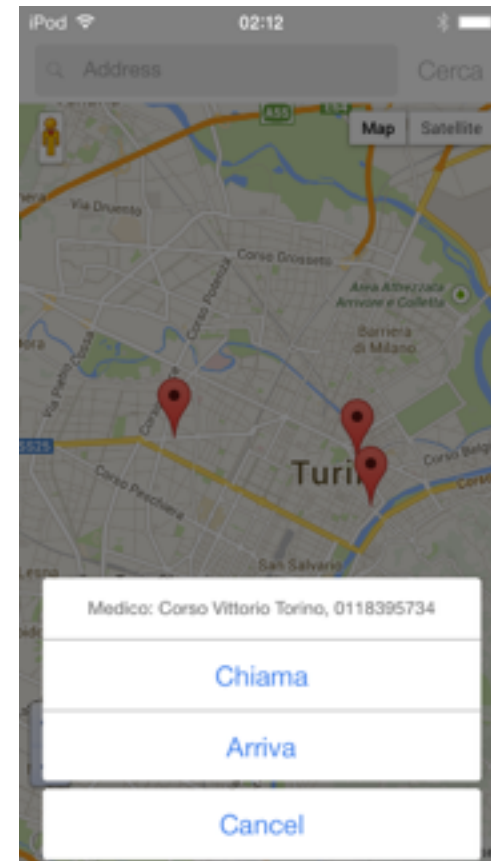
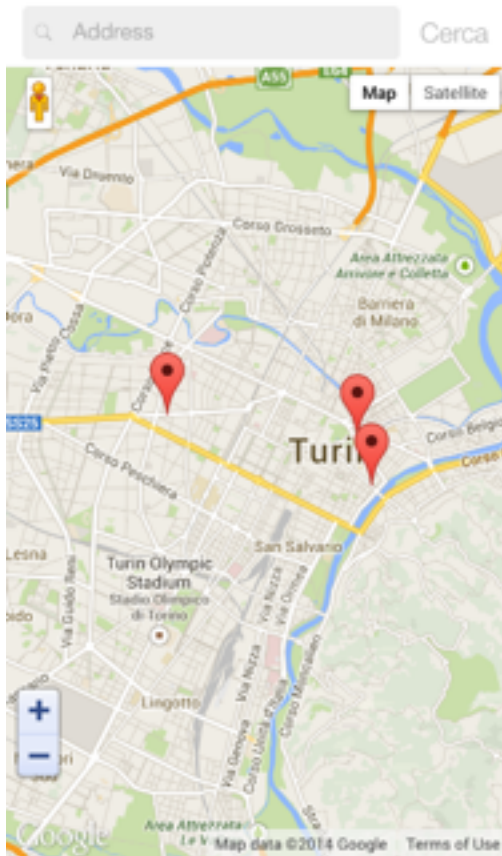
PowerList



PowerList

- Web Application
- Based on “energia” search
- Multi Format Dataset sources
 - KML -> Emilia Romagna
 - CSV -> Piemonte
 - DBF -> Andalucia
- Multi Language Dataset sources
 - Italian -> Emilia Romagna, Piemonte
 - Spanish -> Andalucia

PickYourPhysician



PickYourPhysician

- Mobile Application
 - Android
 - iOS
- Based on “medici” search
 - Medical Scope Application
- Single Format Dataset source
 - CSV -> Piemonte
- Single Language Dataset source
 - Italian -> Piemonte

Just a Proof of Technology

In pure hack-a-ton spirit ("hack" used in the sense of playful, exploratory programming) Open Rosetta came to life as a **proof of technology**.

With **only a sleepless night** it was impossible to complete such an ambitious project. So OpenRosetta still has a long way to go before being a reliable tool.

Current Status

Online at: <http://api.openrosetta.co.vu>

- Open Rosetta performs searches on the HOMER federated search engine.
- Metadata is left as is: the federated engine already provides an abstraction on metadata
 - Only appends a "babylon_url"
- Accessing the babylon_url developer can get the normalised dataset.

A lot to do, but a lot to gain

Developers **like** to create free to use services,
but they **hate** unstructured data.

Whenever a citizen needs a service it has to
pressure government to have it and force an
investment to create the service.

Make easier for Developers to use data and
they **will create services** for you.

Open Data scenario

During 2013, **1.178.534** new open source projects have been created for the top 20 programming languages only on the GitHub platform.

But only **65** people worked with Open Data

There are **a lot** of people contributing free software, but **not much** using open data.

The Future

With the coordinated effort of multiple programmers we firmly believe Open Rosetta can become a “**foundation stone**” for a **richer** “open data software environment”.

With a governance believing in open data and tools like Open Rosetta, **citizens** can really become maintainers of their own services.

THANK YOU

