Kompassi 2.0 – Long term architecture vision

> 📋 Unknown macro: 'gliffy'

- *Nexus* – Keeps track of **Services** and their **Resources**. Proxies requests between Services.
- *Core* – Manages **People**, **Events** and **Involvement** between them.
- **Involvement Services**
  - *Programme* – Manages scheduled event programme via **Schedules**, **Schedule Views**, **Schedule View Blocks, Venues, Rooms** and **Programmes**
  - *Labour* **–** Manages event volunteers via **Job Categories**, **Signups** etc**.**
  - *Signup* – The simplest possible type of involvement, a free-of-cost sign up with some extra information. Manages **Signups**.
  - *Commerce* – Manages paid-for tickets via **Orders**, **Products** etc.
- **Support Services**
  - *Badges* – Manages Badges and admittance lists
  - *External Auth* – Synchronizes users and groups to an external service, namely IPA, for consumption by legacy applications
  - *Mailings* – Used to send mass e-mail **Messages** on grounds of an **Involvement**

Anatomy of a Service

Resources

A Service declares Resources which are persisted into a database.

Basic REST methods are provided for all Resources:

- GET /resource (list, search)
- GET /resource/:id (retrieve)
- POST /resource (create)
- PUT /resource/:id (update)
- DELETE /resource/:id (remove)

Resources are versioned. An attempt to PUT a stale Resource will fail.

Local and remote Resources offer an identical API to the programmer. Under the hood local Resources are persisted directly and remote Resources are käpisteld via REST. ⚠️ Should all Resources be treated as Remote, and should we delegate talking to the database to the Nexus?

Core

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Involvement – Connects a **Person** to an **Entity**. Further information about the nature of the Involvement is managed by an **Involvement Service**.

Involvement Service – Manages the lifespan of an Involvement and provides more information about it.

Entity – An **Event** or an **Organization**. Pending better word. Core characteristic is that it may enlist **People** through **Involvements**.

Event – An **Event** takes place in time and possibly place. An **Event** may enlist **People** through **Involvements**.

External Service – A Service that is outside the scope of the System but uses some functionality or information provided by it through the API.

Organization – In old Kompassi terms, think of it as an **Event** without start or end dates. Can enlist **People** through Involvements as if it was an **Event**. Eg. *Tracon ry* might manage their membership roster as an Organization, with each member being a **Person** with an **Involvement** to the **Organization**.

Person (pl. People) – A natural person, a human being. May or may not be a **User**.

User – A **Person** who holds an user account to the **System**. **External Services** are not **Users** even though they may by some tools be modelled as such.

Example

Gary Gopher is working as a security guard in Exemplacon and is a member of the Exemplacon Association. He also gives two lectures in the event: one about GNS and the other about immersion.

- There is an **Event** called *Exemplacon*.
- There is an **Organization** called *Exemplacon Association*.
- *Gary* is a **Person**.

- Due to his work as a security guard, *Gary* has an **Involvement** to the *Exemplacon* **Event**. For more information, ask the *Labour* **Involvement Service**.
- Due to his GNS lecture, *Gary* has another **Involvement** to the *Exemplacon* **Event**. For more information, ask the *Programme* **Involvement Service**.
- Due to his immersion lecture, *Gary* one more Involvement to the *Exemplacon* **Event**. For more information, ask the *Programme* **Involvement Service**.
- Due to his membership, *Gary* has an **Involvement** to the *Exemplacon Association* **Organization**. For more information, ask the *Membership* **Involvement Service.**