PROJECT PROPOSAL

NUCLEUS

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Engenharia e Gestão de Serviços 2023/24

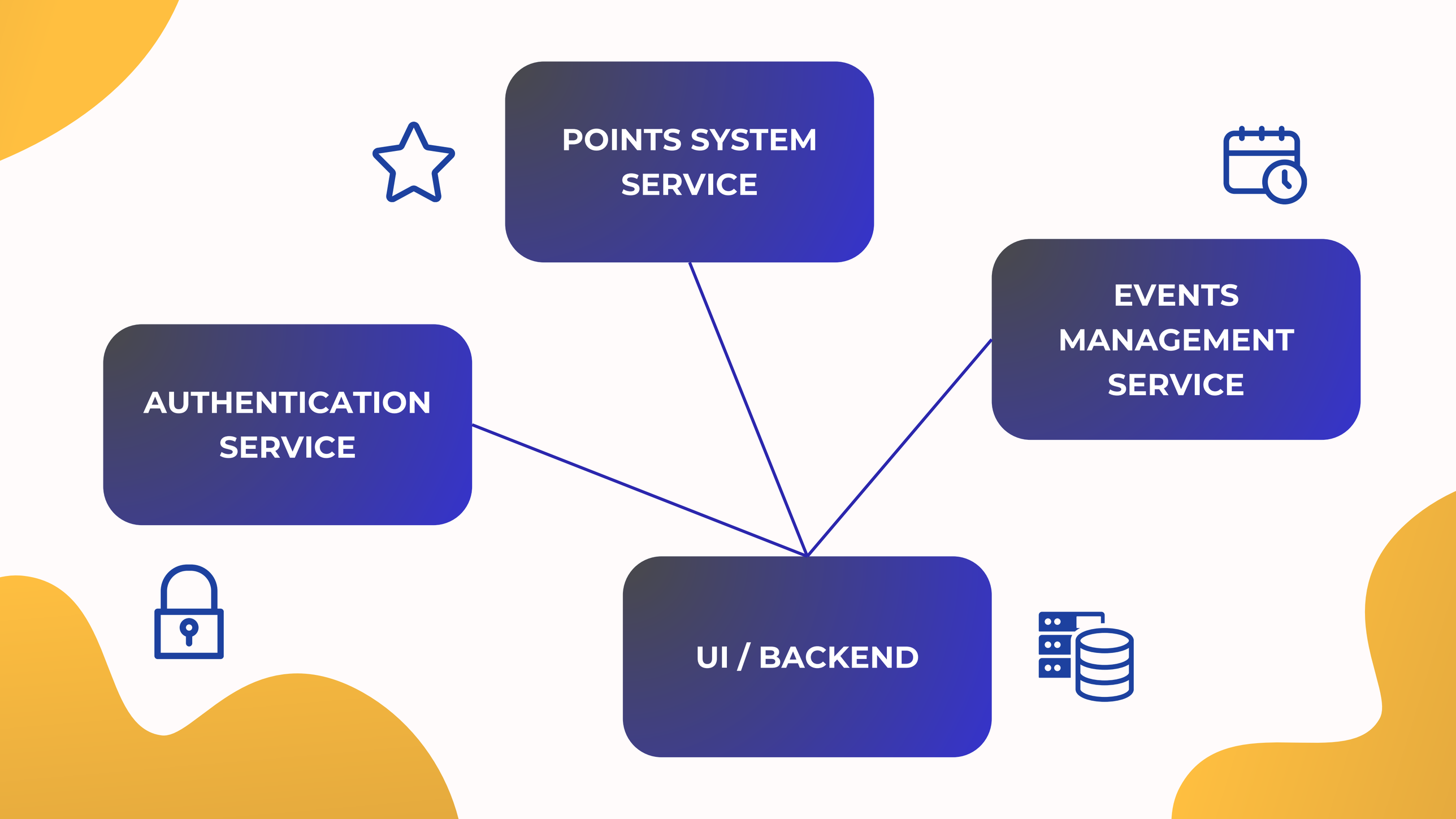
WHO ARE WE?

- **NucleUS** is an app that aims to assist **Students Representative Groups** to better reach the **students** they represent

- We offer a platform for the groups to expose their projects, and at the same time let students follow the groups they are more interested in

- We provide dynamics to facilitate monetary transactions and create immersiveness with a Points System that incentivizes students to participate in events organized by the groups

ASSOCIATIVISM FOSTERS STUDENT INTEGRATION, AND SO DO WE.


POINTS SYSTEM SERVICE
EVENTS MANAGEMENT SERVICE
AUTHENTICATION SERVICE
UI / BACKEND

SERVICES

- **POINTS SYSTEM SERVICE**
  - Service that allows users (students) to earn points to be spent on whatever the student groups define.

BÁRBARA MOREIRA

- **AUTHENTICATION SERVICE**
  - Service that allows the system to add, delete and update new users, do its authentication and validation.

DAVID BICHO

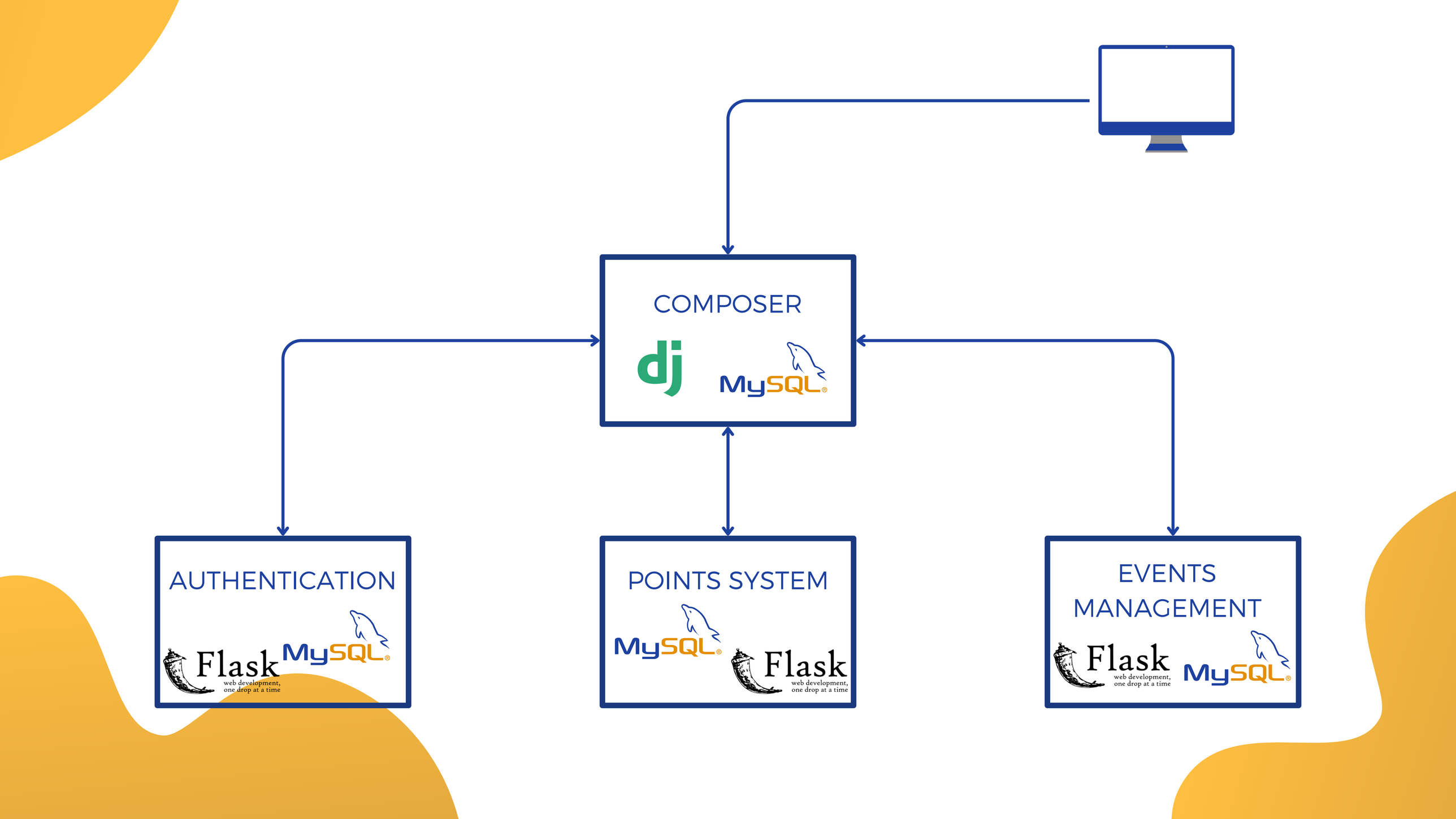
SERVICES

- **EVENTS MANAGEMENT SERVICE**
  - Service that allows to create and announce new events and activities to the community.

    LARA RODRIGUES

- **AGGREGATION SERVICE**
  - Service that unites all other services to create a functional WebApp.

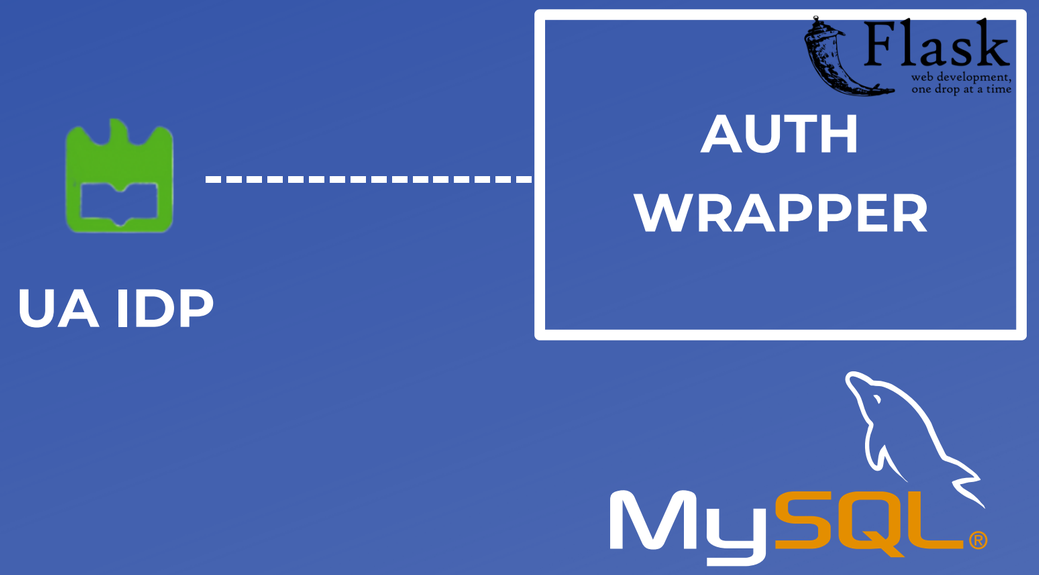
    DIOGO CORREIA


COMPOSER
dj
MySQL
AUTHENTICATION
Flask
web development,
one drop at a time
MySQL
POINTS SYSTEM
MySQL
Flask
web development,
one drop at a time
EVENTS
MANAGEMENT
Flask
web development,
one drop at a time
MySQL

AUTHENTICATION

DAVID BICHO

- **AUTHENTICATION SERVICE**
  - **POST /signin -** Creation of a new user (if needed) and login
  - **POST /register -** Add some registering info if first time
  - **POST /logout -** Log out of the webApp



EVENTS MANAGEMENT SERVICE

LARA RODRIGUES

- **POST /events -** Creation of a new event
- **DELETE /events?id=<event_id> -** Delete an event
- **PATCH /events?id=<event_id> -** Update event information
- **POST /events?id=<event_id>** - Register for an event
- **GET /events?entity=<entity_id>** - Get event by an entity that creates groups
- **GET /events?date_from=<date>&date_to=<date>** - Filter event by data
- **GET /events?type=<type>** - Get event by type
- **GET /events?location=<location>** - Get event by location
- **GET /events?price=<price>** - Get event by price

POINTS SYSTEM

BÁRBARA MOREIRA

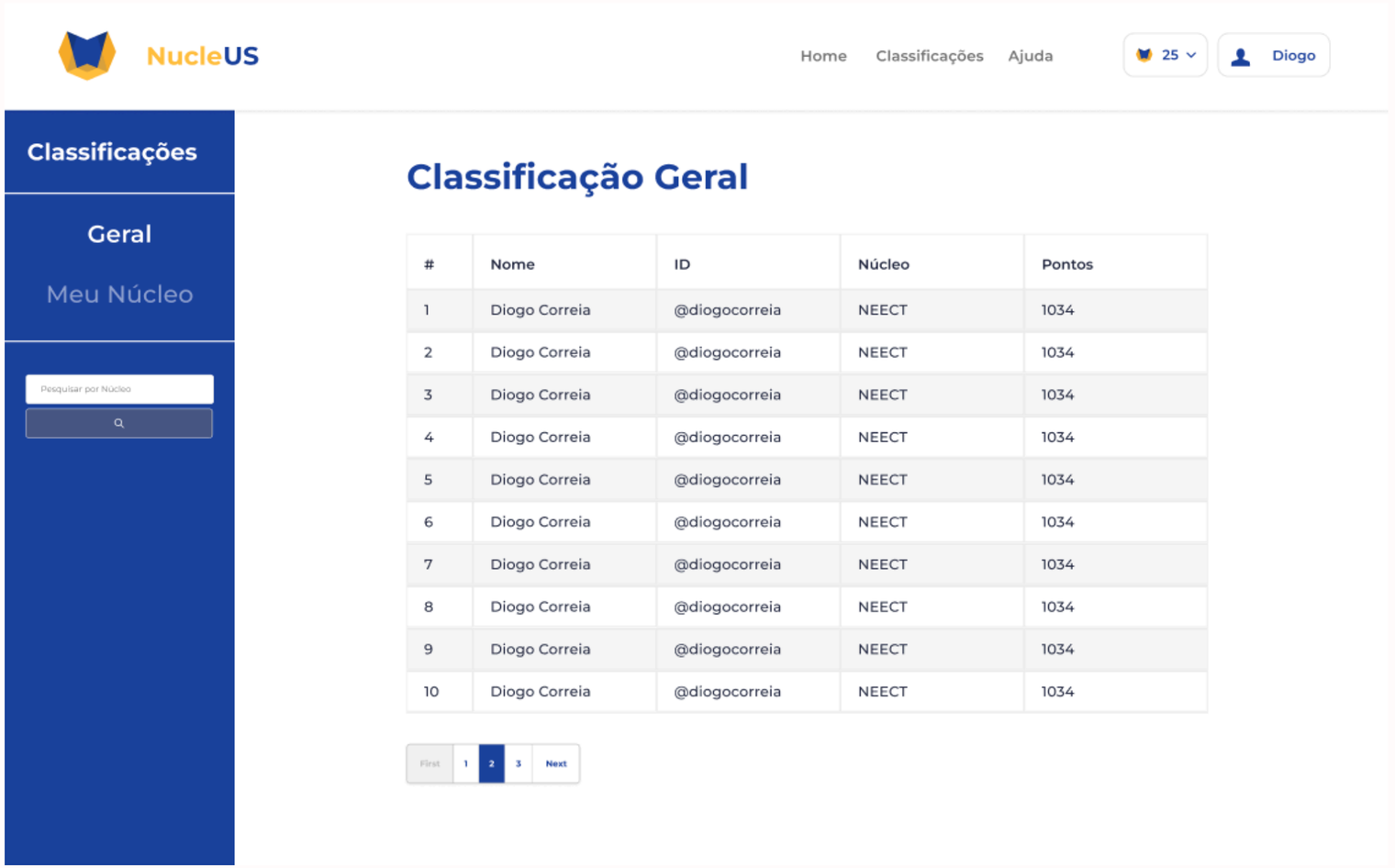
- **PATCH /points/entity/<entity_id>?object=object_id -** Add or remove points to an entity
- **GET /points/entity/<entity_id>/history -** History of points transactions
- **POST /points/type -** Add a new points type
- **DELETE /points/type -** Remove type of points
- **GET /points/standings -** Get general standings of all entities
- **GET /points/standings?type=<points_type> -** Get standings of a points type

AUTH PAGE

Interacts with Auth Service

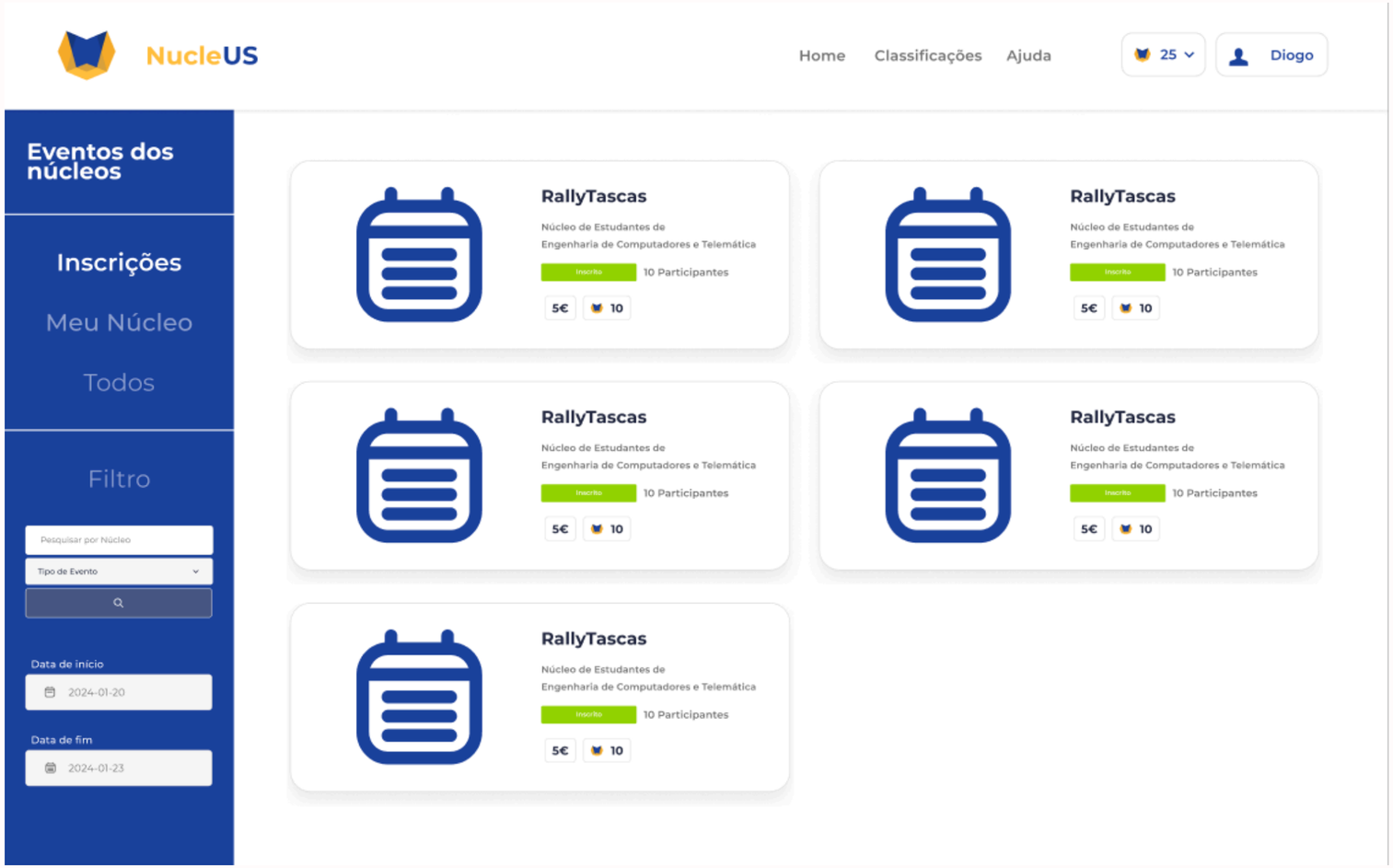
STANDINGS

Interacts with Points Service



EVENTS FEED

Interacts with Events Service



STAKEHOLDERS

01 Students

02 Students Representative Groups

03 Academic Associativism