

MUCLEUS

Diogo Correia 90327 David Bicho 93215 Lara Rodrigues 93427 Bárbara Moreira 104056

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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 a dinamic aproach witch includes 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



AUTHENTICATION SERVICE EVENTS
MANAGEMENT
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.

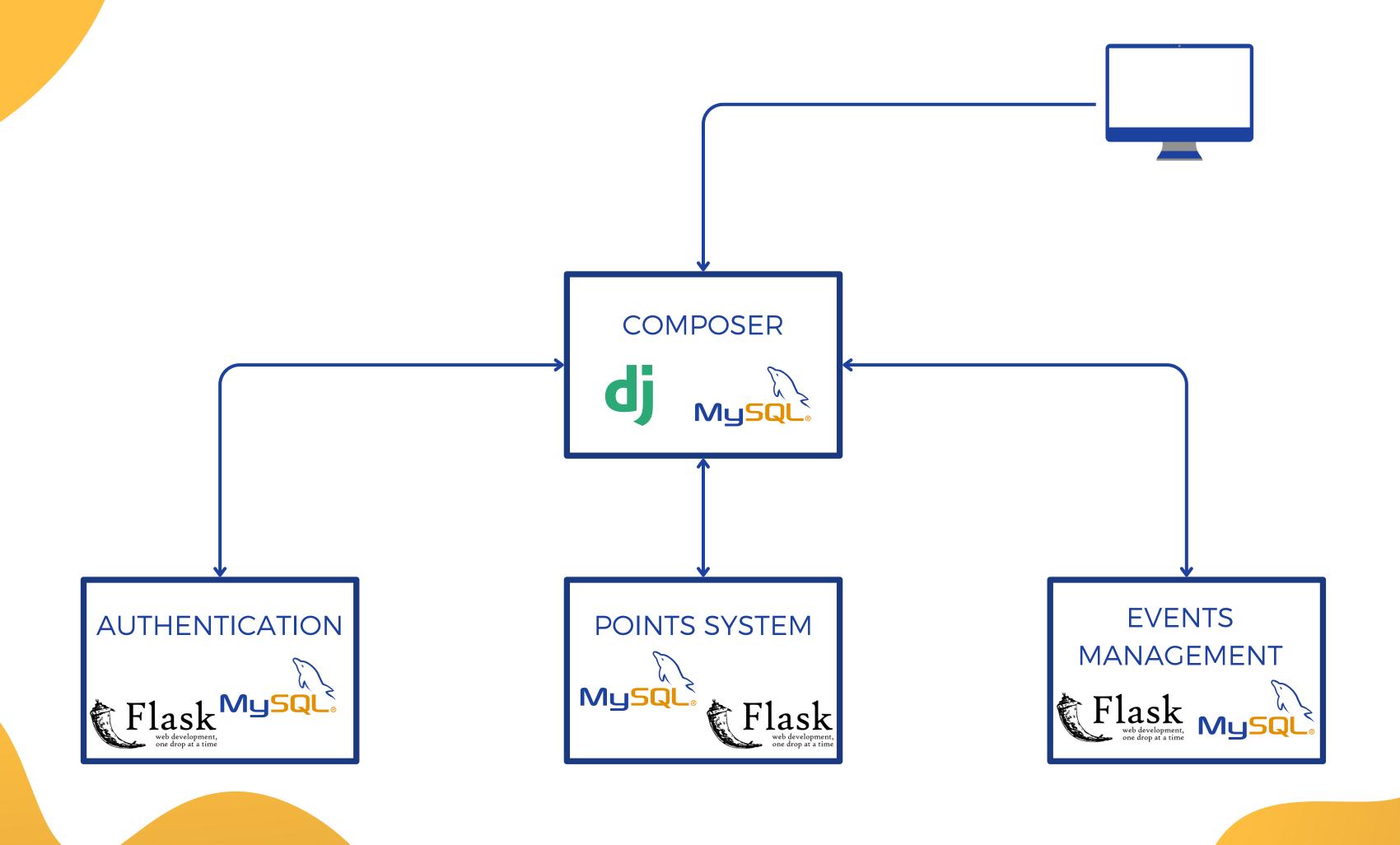
LARA RODRIGUES



AGGREGATION SERVICE

 Service that unites all other services to create a functional WebApp.

DIOGO CORREIA



DAVID BICHO



• AUTHENTICATION SERVICE

- o **POST /signin -** Creation of a new user (if needed) and login
- o POST /nucleossignin Creation of a new nucleo and login
- POST /register Add some registering info if first time
- POST /logout Log out of the webApp
- GET /nucleus Lists all nucleos logged in
- **GET /user** Lists all user information
- **GET /students** Lists all students of a nucleo



UA IDP







AUTHENTICATION WEBAPP API ENDPOINTS

API AUTHENTICATION SERVICE

- POST /auth/signin Login with UA IDP
- o POST /auth/nucleossignin Creation of a new nucleo and login
- o POST /auth/register Add some registering info if first time
- GET /auth/nucleus_students/<nucleo_id> Lists nucleo's students
- **GET /auth/user** Lists user information
- GET /auth/nucleos Lists all nucleos



EVENTS MANAGEMENT SERVICE LARA RODRIGUES

SERVICE ENDPOINTS

- 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





EVENTS MANAGEMENT SERVICE LARA RODRIGUES

WEBAPP API ENDPOINTS

- POST /events Creation of a new event
- GET /events Display events



- 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

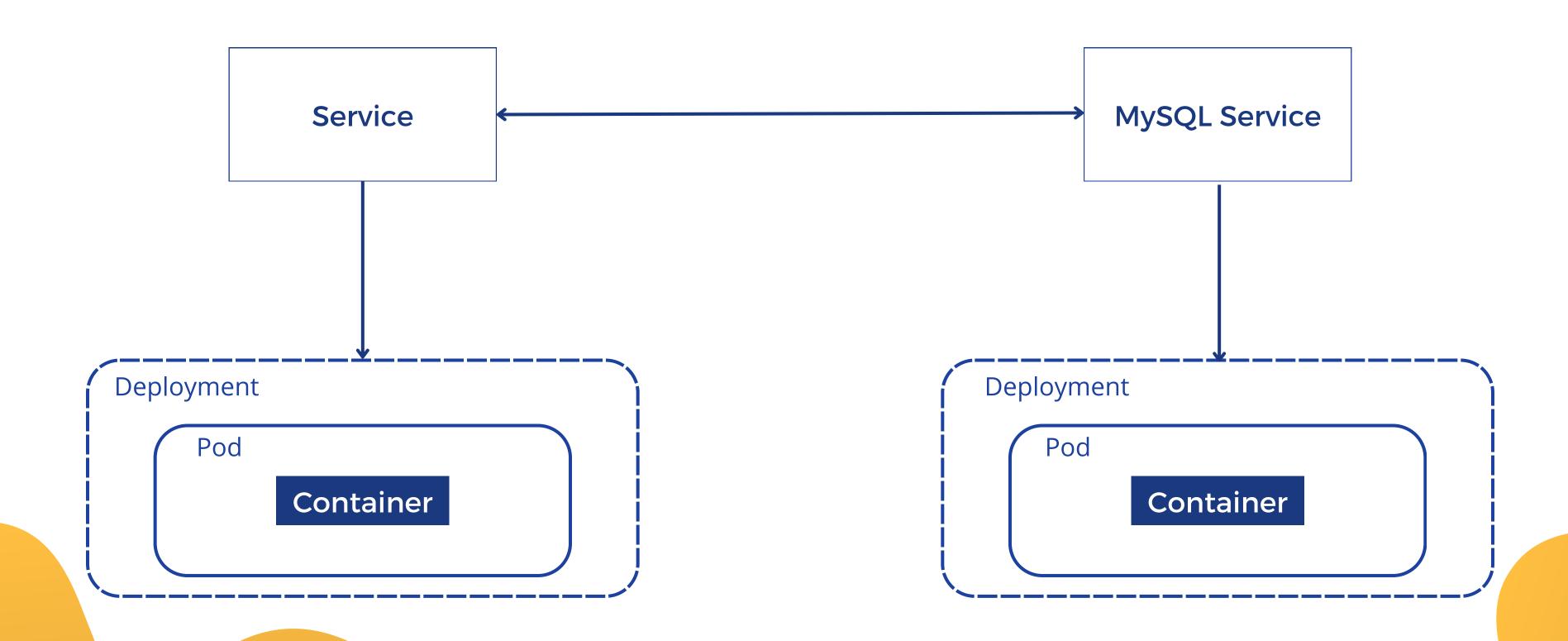




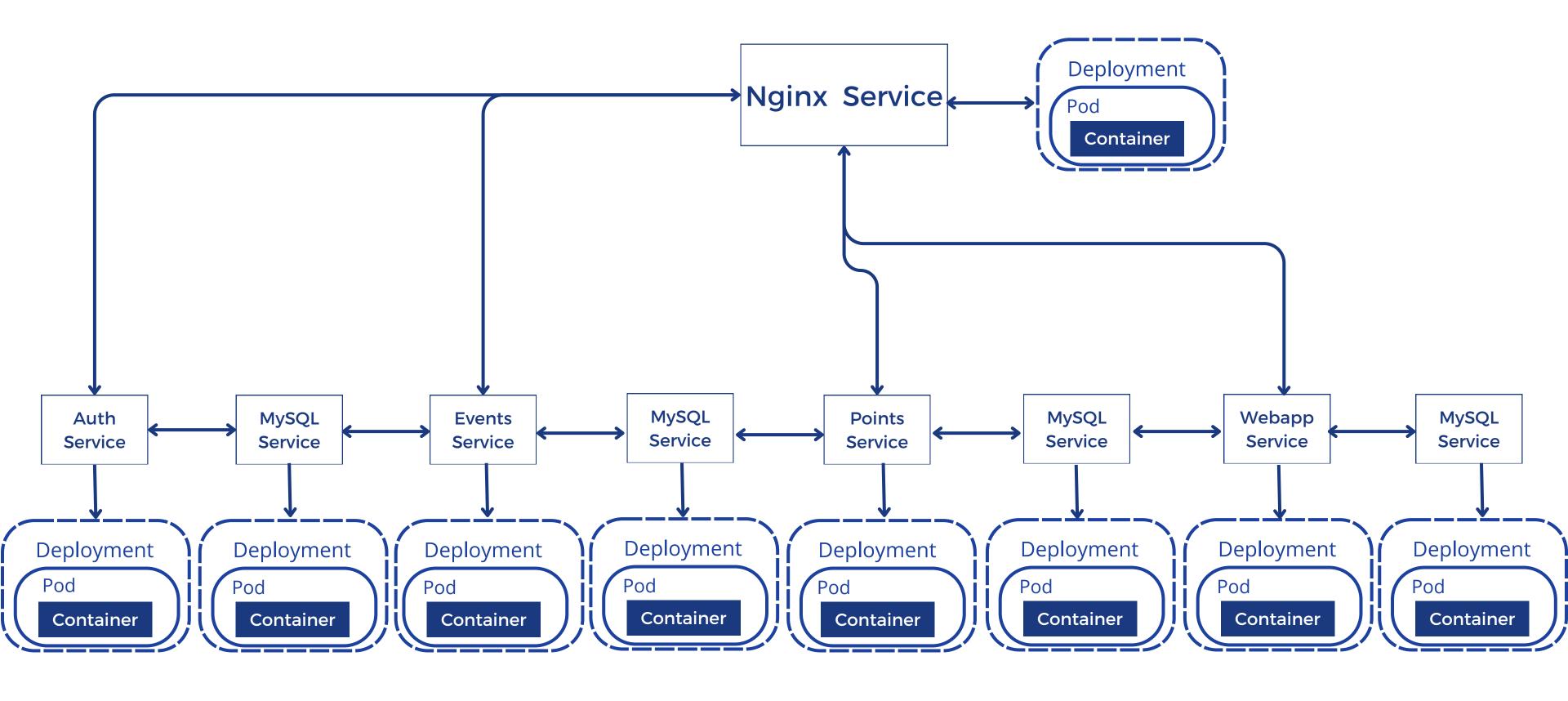
- GET /points/standings Get general standings of all users (NUCLEO AND USER SIDES)
- GET /points/entity Get current points of user (NUCLEO AND USER SIDES)
- PATCH /points/entity/<entity_id> Add or remove points to an user (NUCLEO SIDE)



SERVICE DEPLOYMENT



DEPLOYMENT DIAGRAM



FUTURE WORK

- IMPLEMENTING SEARCH FILTERS
- UPDATE USER POINTS
- POINTS MANAGEMENT
- EXPAND OUR PLATFORM TO ALL UNIVERSITIES

LIVE DEMO