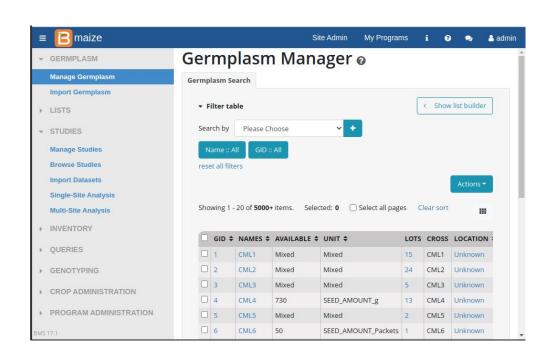


BMS - BREEDING MANAGEMENT SYSTEM

#### **BMS**

- Multi-module system
- Multi-crop
- Multi-program
- User management
- Phenotyping studies management
- Germplasm management
- Inventory management



#### What's new

- New inventory manager
- KSU Fieldbook data capture interoperability
- Study Comparison BrAPP integration
- New germplasm search capabilities

# TECH STACK

#### Backend

- Java / Spring / Hibernate
- MySQL

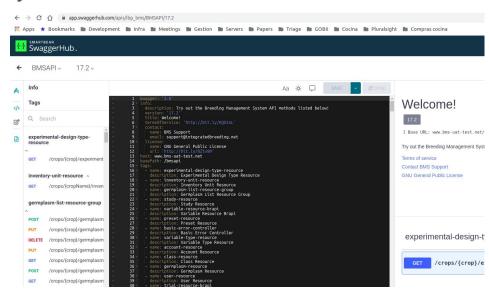
#### Frontend

- AngularJs / Angular 2 / 6
- Thymeleaf
- Vaadin (legacy)

#### **BMSAPI**

#### https://app.swaggerhub.com/apis/ibp\_bms/BMSAPI/17.2

- All new modules interact directly with BMSAPI
- BrAPI for external interaction



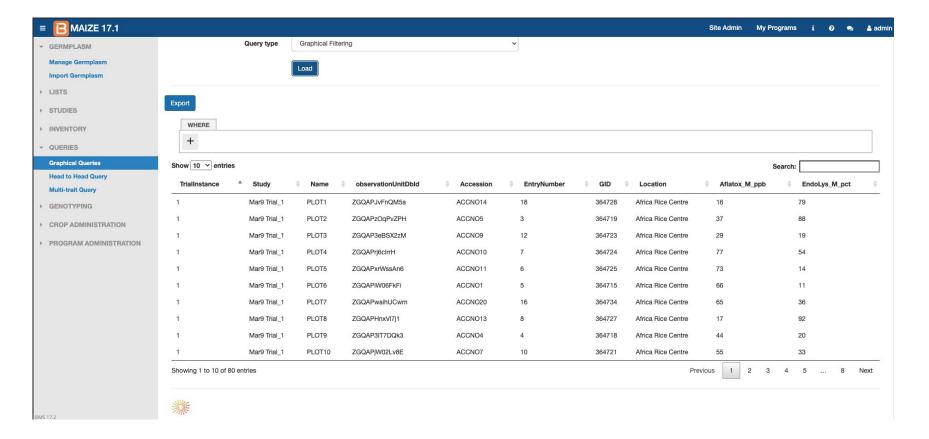
- Interact / provide data for other Systems
  - o BrAPI-R
- Support a large number of v1 calls
- New v1 calls:
  - /search/germplasm
  - /search/germplasm/{id}

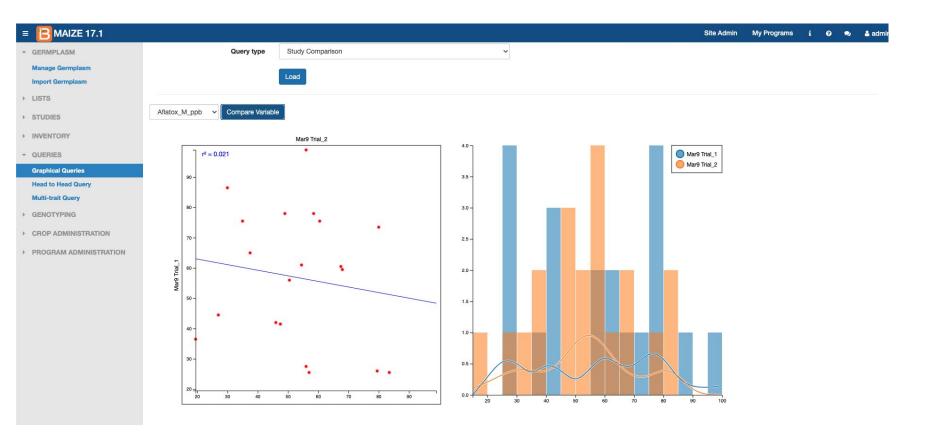
#### New v2 calls:

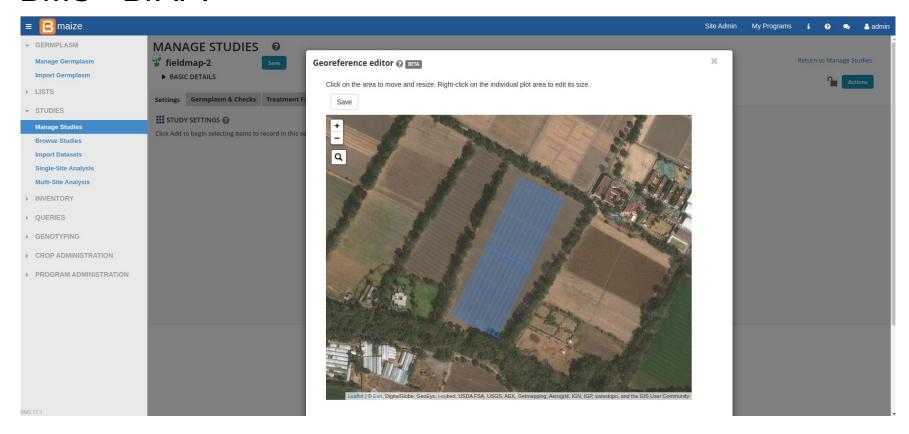
- GET v2/seedlots
- GET v2/transactions
- GET /trials
- GET /studies
- o GET /germplasm
- GET /breedingmethods
- GET /locations
- GET /programs
- o GET /germplasm
- POST /germplasm
- PUT /germplasm (In progress)

#### BrAPPs

- Graphical Filtering tool
- Fieldmap (new): editing geo-coordinates (geoJSON)
- Study Comparison tool







#### **BrAPI Virtual Hackathon**

- New BrAPP: Synchronize Germplasm across BMS (or any other BrAPI-compliant) instances
- Discuss data synchronization