# **ALICE Service Work System**

Norfolk, US - May 2023 | CHEP 2023

Jomar Júnior de Souza Pereira Mario Günter Simão Adriana Telesca



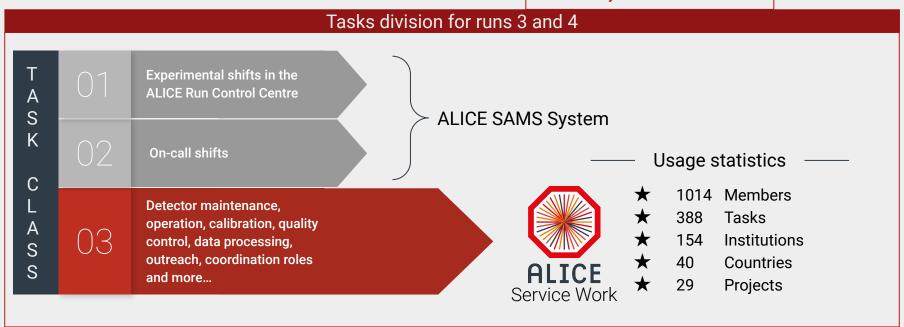






## Conception

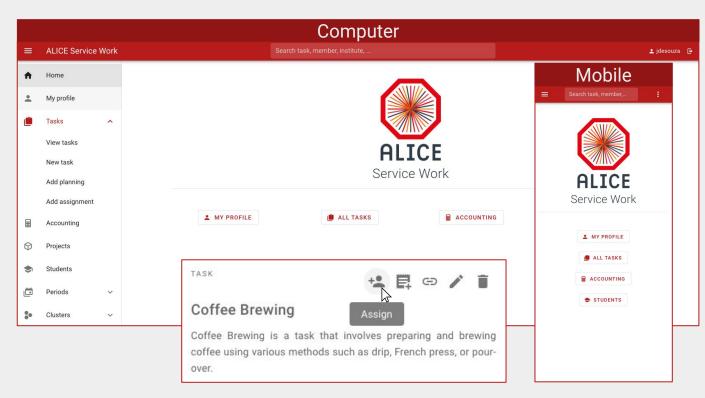




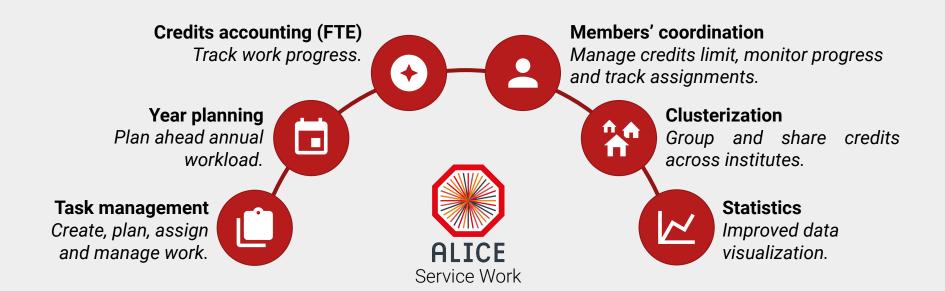
## Design



- Clean and user-friendly interface.
- Quick and responsive.
- Respects experiment visual identity.



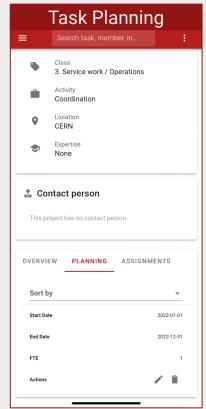
## **Features**

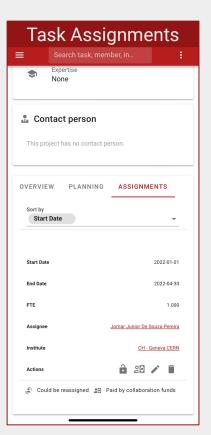


## **Task Management**

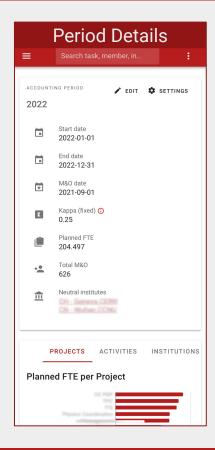


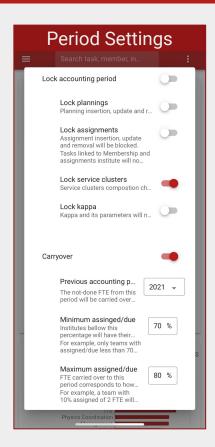


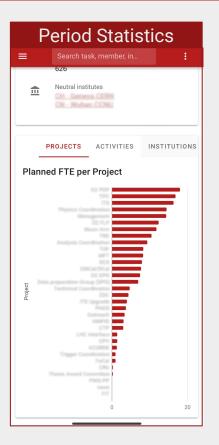




## **Year Planning**

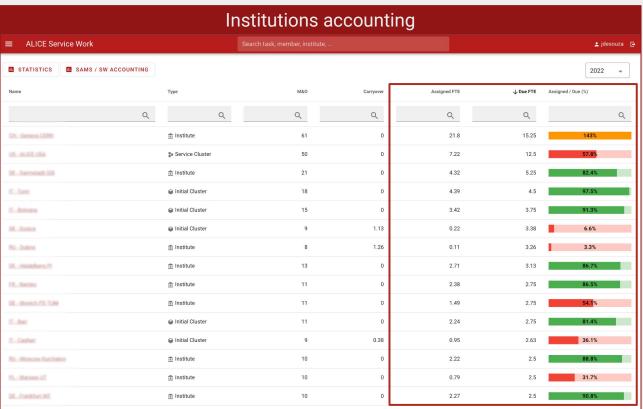






## **Credits Accounting**





## **Implementation**

#### .php Client A popular general-purpose scripting language .vue □ that is especially suited to web development. HTTP Send data Request An approachable, Read and Write performant and versatile Response Display results framework for building web user interfaces. Vuex Vuetify 2.0 Database versioning **Doctrine Migrations** Communication with other **CERN** applications

**REST API** 

## **Back-end architecture**

#### **Practices**



### **Encapsulation**

Protection from outside world.



#### **Business rules**

Separated and well defined.



#### **Adapter**

Morph any entry to a standard command.

#### Results



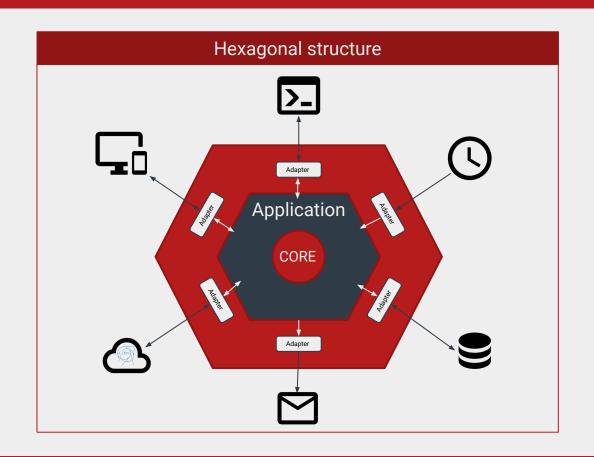
**Flexibility** 



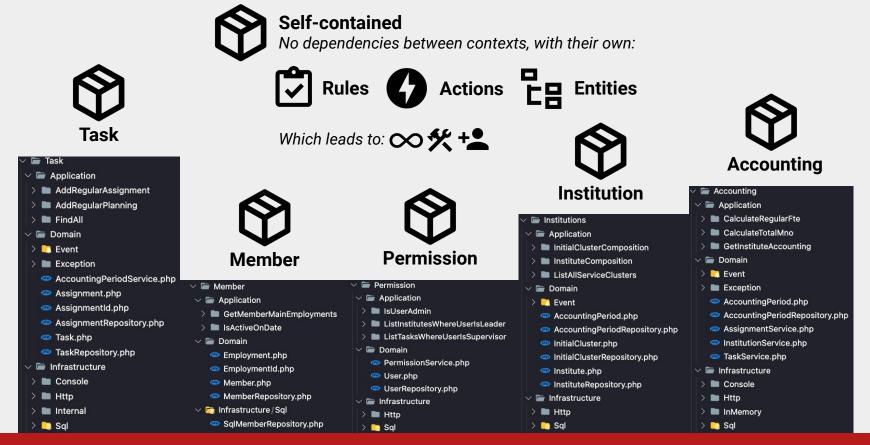
Easy maintenance and testing



**Newcomer-friendly** 



### Contexts



## **Future developments**



#### **Dockerization**

Migrate to containerized environments.



**Continuous deployment** *Remove the time spent on manual deployments.* 





#### Advanced search

More options for searching the dataset. T5 - Glance Search Interface May 9th, 2023 - 02:30 pm



#### PHP Version 8<sup>^</sup>

Stop using older versions of PHP.

# **ALICE Service Work System**

Thanks! jomar.junior@cern.ch

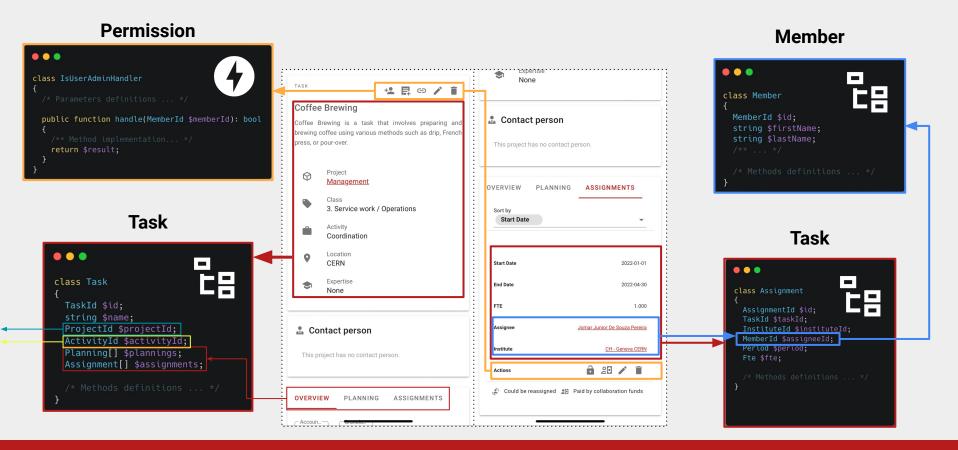




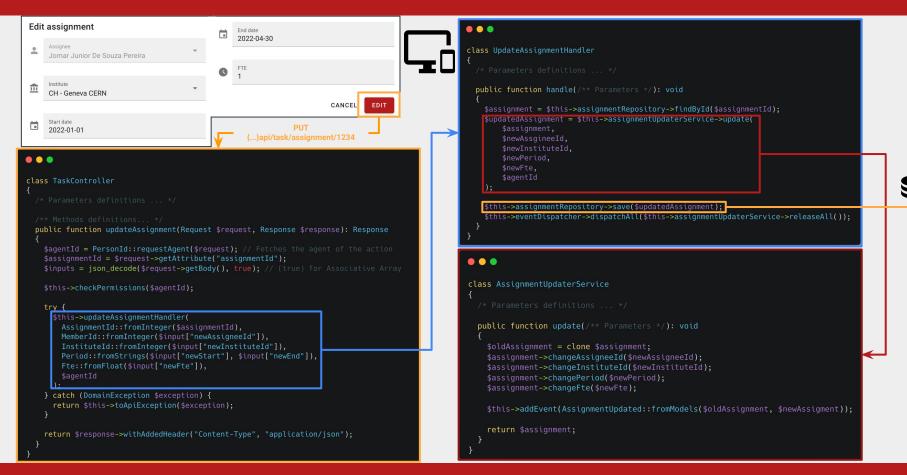




## Context to Front-end



## Infrastructure to Domain to Infrastructure



## Infrastructure to Domain to Infrastructure



[jdesouza-vscode@aliglance05 aliglance]\$ bin/service-work update-assignment <assignmentId> <userId> <instituteId> <startDate> <endDate> <fte>|

```
use Symfony\Component\Console;
class UpdateAssignment extends Console\Command
  public function execute(Console\InputInterface $input, Console\OutputInterface $output): void
    $assignmentId = $input->getArgument("assignmentId");
   $newAssigneeId = $input->getArgument("assigneeId");
   $newInstituteId = $input->getArgument("instituteId"):
    $newStart = $input->getArgument("startDate");
    $newEnd = $input->getArgument("endDate");
    $newFte = $input->getArgument("fte");
    try {
     $this->updateAssignmentHandler->handle(
       Period::fromStrings($newStart, $newEnd),
    } catch (DomainException $exception) {
     return $this->toCliExpection($exception):
    return Console\Command::SUCCESS;
```

```
class UpdateAssignmentHandler
  public function handle(/** Parameters */): void
   $assignment = $this->assignmentRepository->findById($assignmentId);
   $updatedAssignment = $this->assignmentUpdaterService->update(
       $newAssaineeId.
   $this->assignmentRepository->save($updatedAssignment);
   $this->eventDispatcher->dispatchAll($this->assignmentUpdaterService->releaseAll());
class AssignmentUpdaterService
  public function update(/** Parameters */): void
    $oldAssignment = clone $assignment;
    $assignment->changeInstituteId($newInstituteId);
    $assignment->changePeriod($newPeriod);
    $assignment->changeFte($newFte);
    $this->addEvent(AssignmentUpdated::fromModels($oldAssignment, $newAssigment));
    return $assignment;
```