

## Balanced Banana

Entwurf

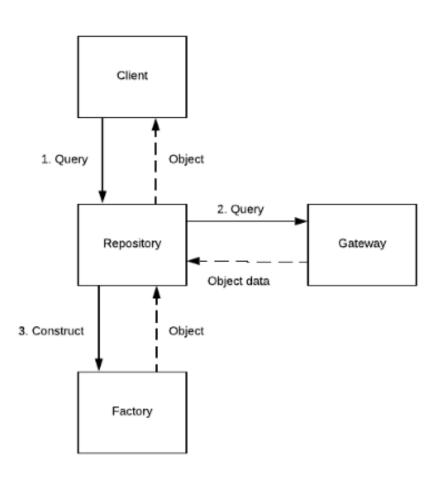
# Ziele

- Implementierung von möglichst vielen Features aus dem Pflichtenheft
- Übersichtlich gestaltete Module
- Umsetzung von Konzepten aus SWT 1

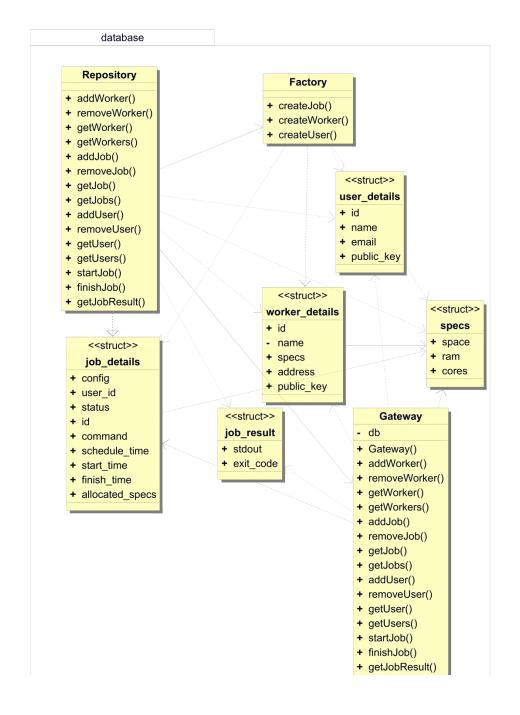
# Architektur

- Die Client Anwendung
- Die Server Anwendung
- Die Worker Anwendung

# Datenbank



# Datenbank



# Configfiles

## configfiles

## JobConfig

- min\_ram\_
- max\_ram\_
- min\_cpu\_count\_
- max\_cpu\_count\_
- blocking\_mode\_
- email
- priority\_
- image\_
- environment
- interruptible
- current\_working\_dir\_
- + JobConfig()
- + JobConfig()
- + JobConfig()
- + set min ram()
- + set\_max\_ram()
- + set\_min\_cpu\_count()
- + set\_max\_cpu\_count()
- + set blocking mode()
- + set email()
- + set\_priority()
- + set\_image()
- + set\_environment()
- + set\_interruptible()
- + set\_current\_working\_dir()
- + min ram()
- + max\_ram()
- + min\_cpu\_count()
- + max\_cpu\_count()
- + blocking mode()
- + email()
- + priority()
- + image() + environment()
- + interruptible()
- + current working dir()
- + Save()
- + Serialize()
- + Merge()

## SchedulerConfig

- values\_
- + SchedulerConfig()
- + SchedulerConfig()
- + count()
- + Set()
- + Get()
- + Clear()
- + Save()
- + Contains()

## <<enum>>

## **Priority** + low

- + normal
- + high
- + emergency

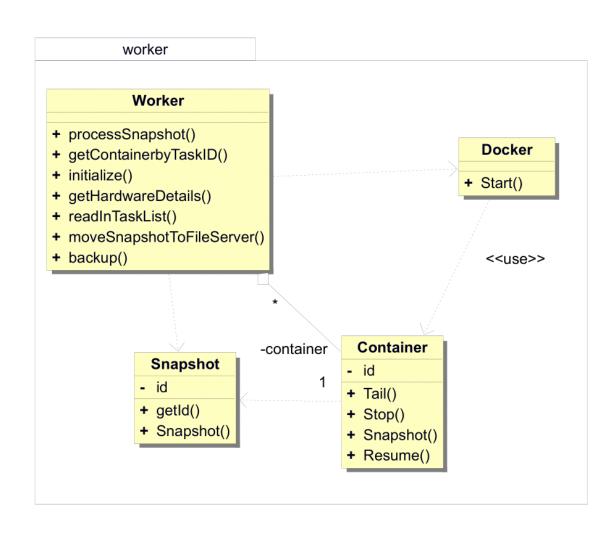
# CommandLineProcessing

# CommandLineProcessor + process(argv : char\*\*, argc : int\*) : Task - preProcess(argv : char\*\*, argc : int\*, task : std::shared\_ptr<Task>) - processArguments(argv : char\*\*, argc : int\*, task : std::shared\_ptr<Task>) Task - taskCommand : std::string - type : int + getType() : int + setType(type : int) : void + getConfig() : balancedbanana::configfiles::JobConfig + getTaskCommand() : std::string + setTaskCommand(taskCommand : std::string) : void

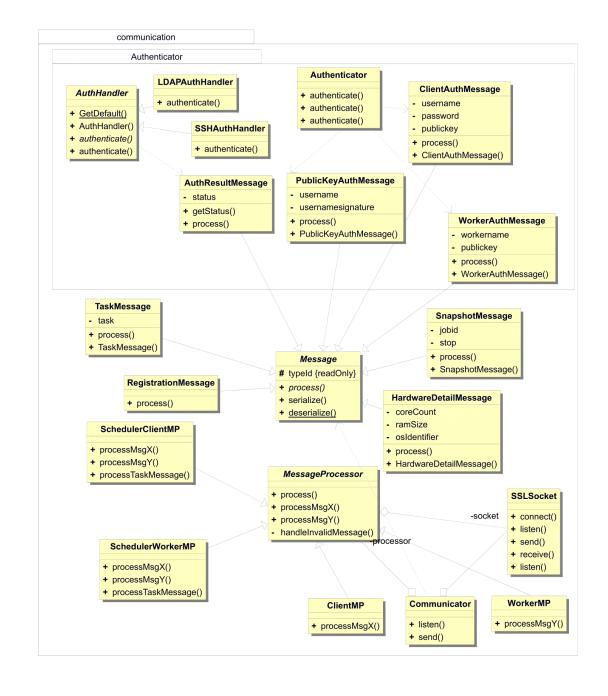
# Client

# Client + main(argv : char\*\*, argc : int\*) : int + snapshot()

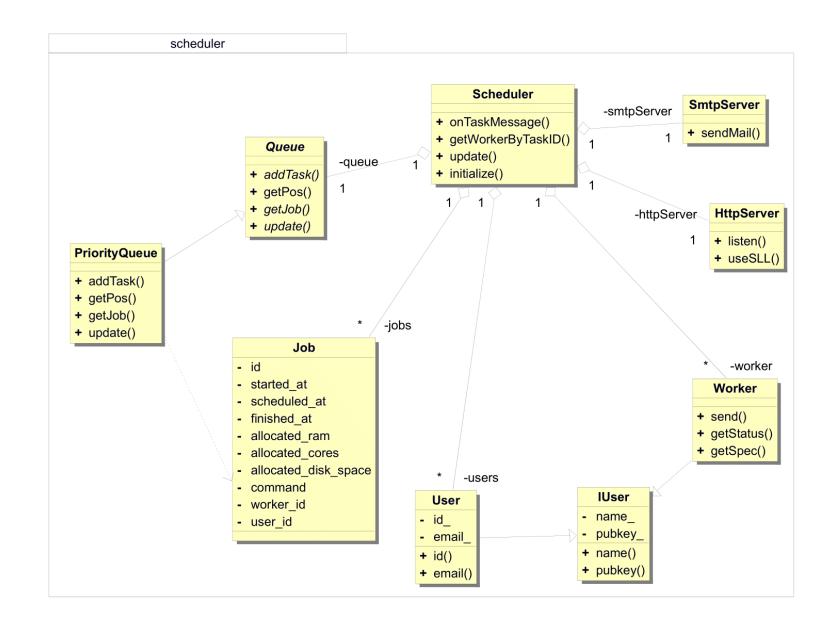
# Worker



# Communication



# Scheduler



# TimedEvents

