

Exercise

EPICS Database Messages Datalog

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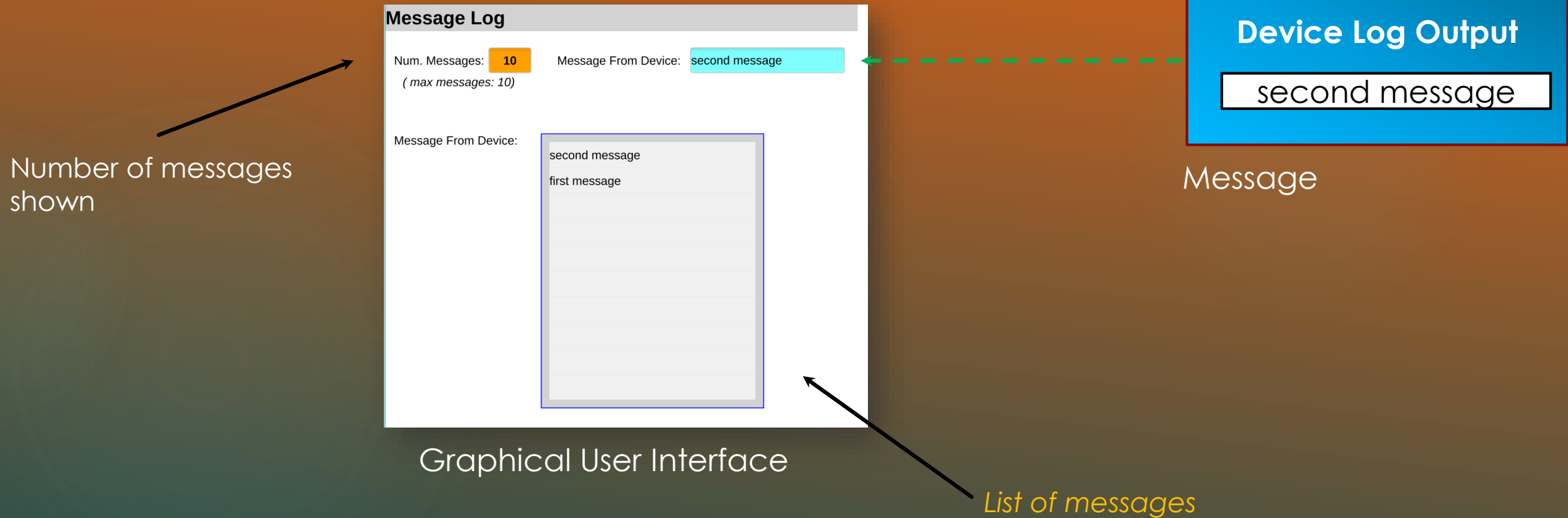
EPICS Databases Exercises

Objectives:

- ▶ Create a simple EPICS application to manage a datalog
- ▶ The set of records keeps the last 10 messages provided by the field
- ▶ (optional) manage the number of messages displayed in the GUI

EPICS Databases Exercises

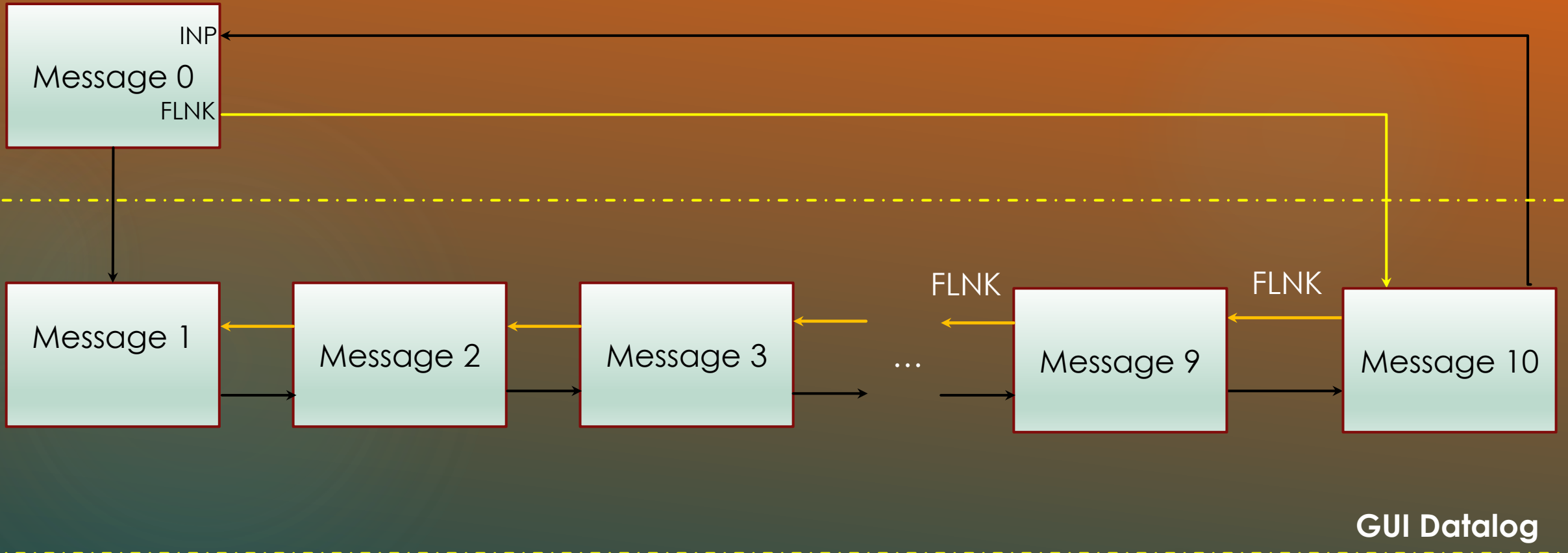
Final Objective:



EPICS Databases Exercises

Final Objective:

Legend:  FLNK field
 INP field



EPICS Databases Exercises

Create an empty EPICS application

- ▶ Go to your home directory and create a folder for this exercise there:

```
$ cd
```

```
$ mkdir ExerciseDatalog
```

```
$ cd ExerciseDatalog
```

- ▶ Use the EPICS Base script to create a new application of type IOC called datalog

```
$ makeBaseApp.pl -t ioc datalog
```

- ▶ Now create an IOC to run the application

```
$ makeBaseApp.pl -i -t ioc datalog
```

EPICS Databases Exercises

Datalog Application

► Records:

```
record(stringin, "$(P)$(Num) ") {  
  field(DESC, "Message $(Num) ")  
  field(INP,  "$(Source) ")  
  field(FLNK, "$(Flnk) ") }
```

► Substitution file:

```
pattern {P, Num,      Source, Flnk}  
{ "message", "0", "", "message10" }  
{ "message", "1", "message0", "message0" }  
..  
{ "message", "9", "message8", "message8" }  
{ "message", "10", "message9", "message9" }  
}
```