# Quality Assurance, MPPC Testing: Database and Interface

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## Goal

Implementation of a form based web program able to handle a large database for the quality assurance collaboration with the Jefferson Lab.

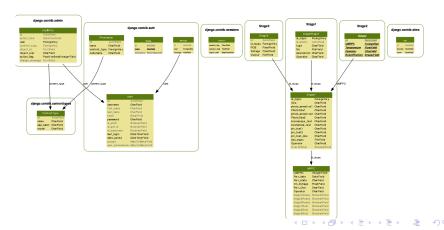
The software should be easy to use and easy to use, modular and extensible

## **Current Status**

- DataBase
- Task Queue
- Data Presentation

## DataBase...

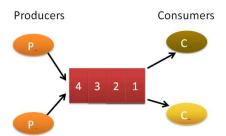
The database is implemented using Mysql. This model has been changing in the last period, adapting itself to our new needs. Several tables have been added to our model so the system is able to support the Queue.



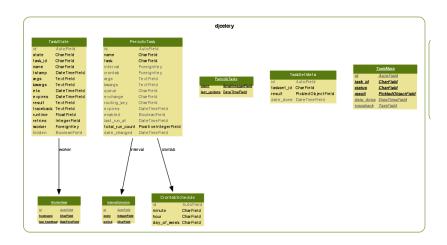
#### **Task Queue**

 Task Queue: We have developed an application queue system for the PDE and Dark Box Stages. This allows us to have an asynchronous handling of the testing programs and the analysis routines as well. The queue provides us a much better error handling system since we are separating continous functions in a program in a system of tasks.

This new addition handles log files, task status, task duration, task killing and parallel running.



## **Task Queue**



#### Data Presentation...

- Report lab
  - The system is generating Pdf reports on request.
- Google Charts API
  - QR identification Image.
  - GUI Visual artifacts.(Graphs, tables, Pie Charts...)

## What's Next...

- Define the Stage 2 ROOT Structure
  - During this week should be ready!
- Define Stage 2 GUI
  - Currently a work in progress!

## Questions?