Laboratoire d'Annecy de Physique des Particules

Development of Clapp's Webapp

Presentation

24 July 2024

Omeed BAHRAMI

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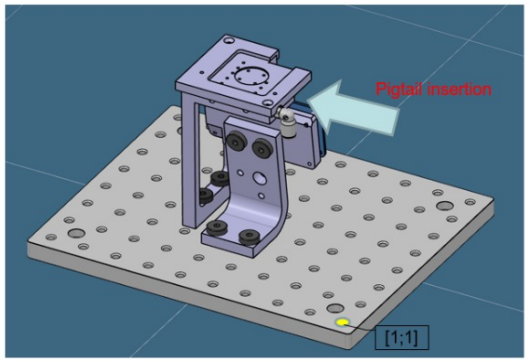
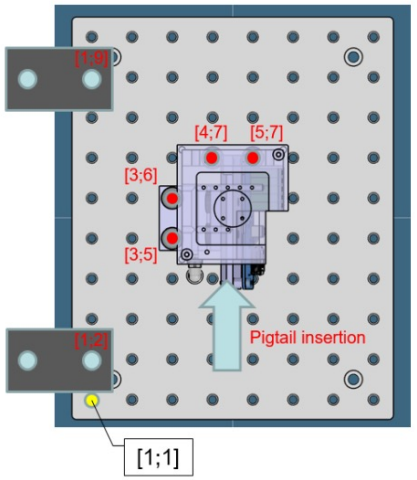
Overview of the WebApp

- Pigtail Mounting process description
- PowerPoint reference
- WebApp utilisation

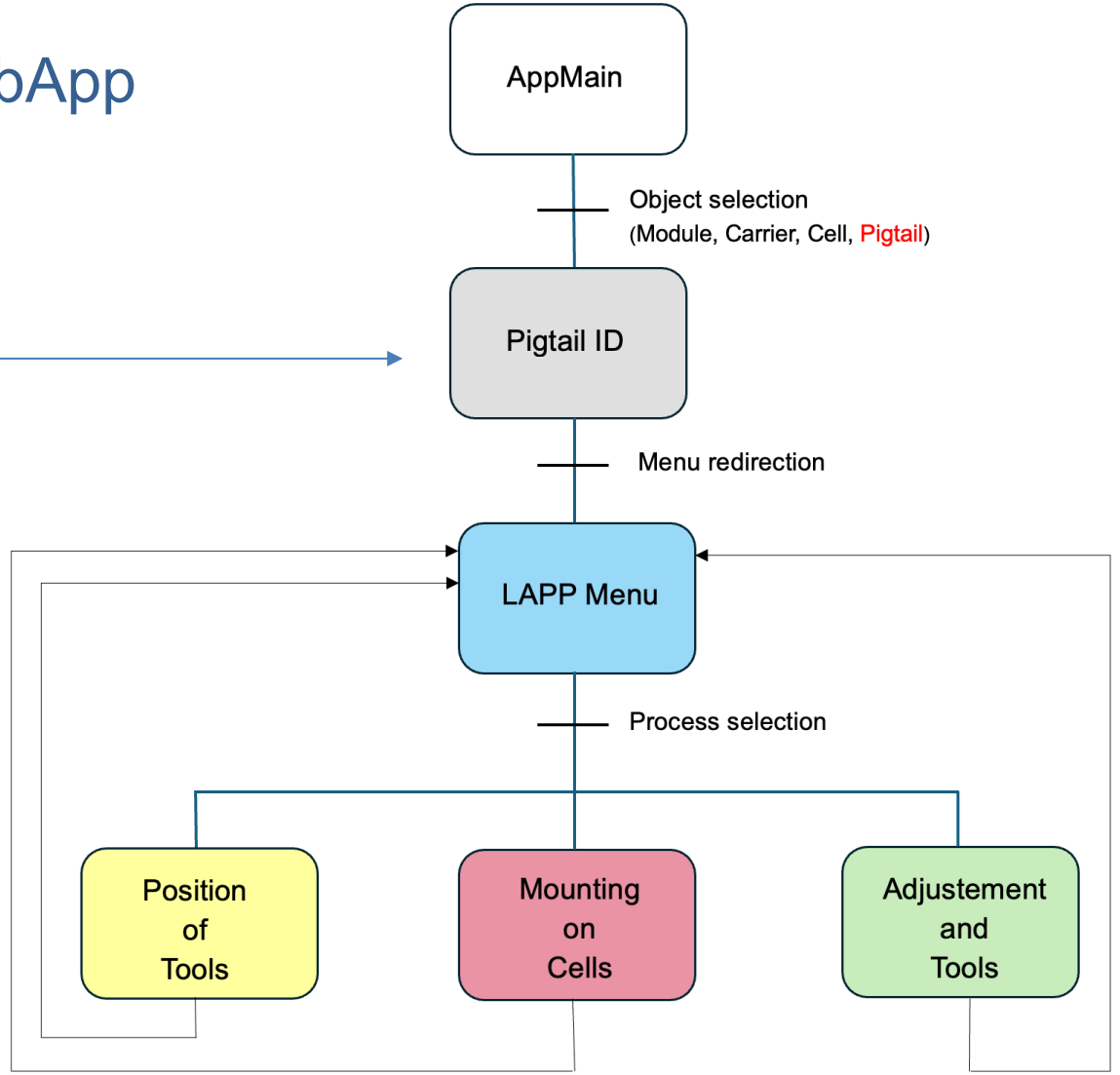


Cell support:
shouldered M6 screws, shoulder 12mm. Location: [4;7] and [5;7]
TOP bracket:
shouldered M6 screws, shoulder 8mm. Location: [3;5] and [3;6]
Hinges (optional):
shouldered M6 screws, shoulder 8mm. Location: [1;2] and [1;9]



Overview of the WebApp

- Pigtail selection
- LAPP's own Menu



Overview of the WebApp

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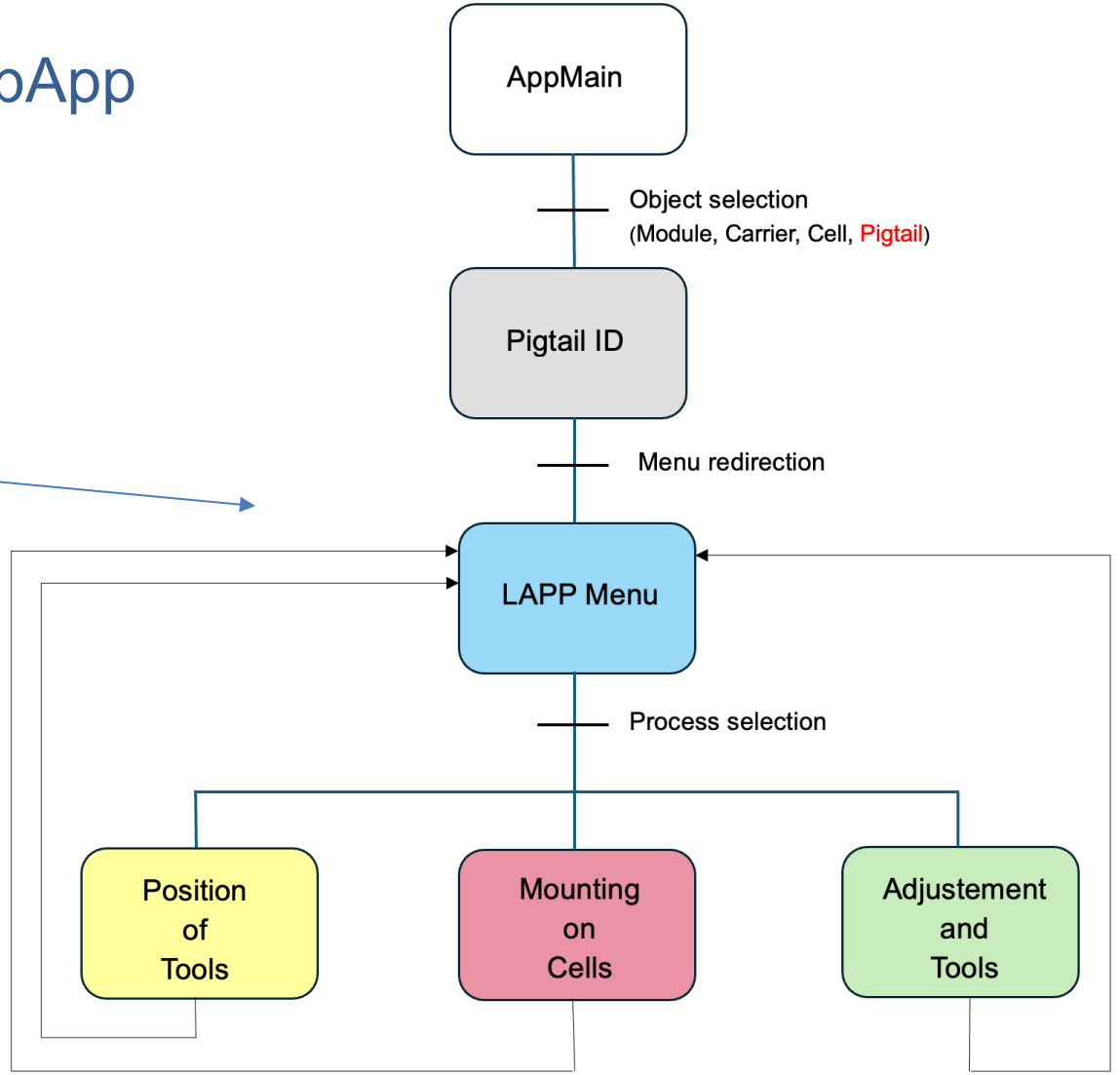
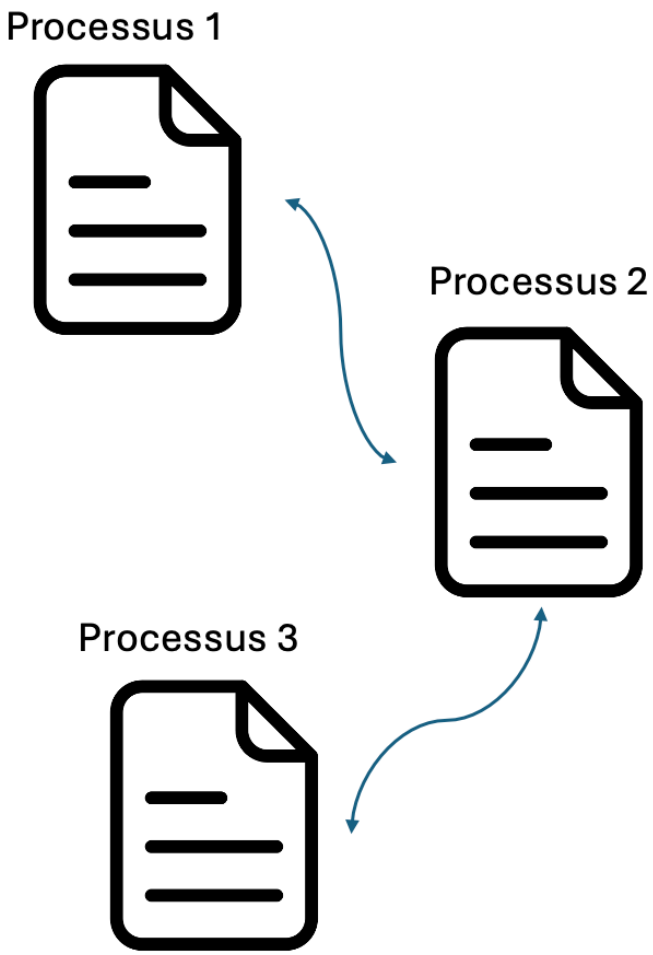


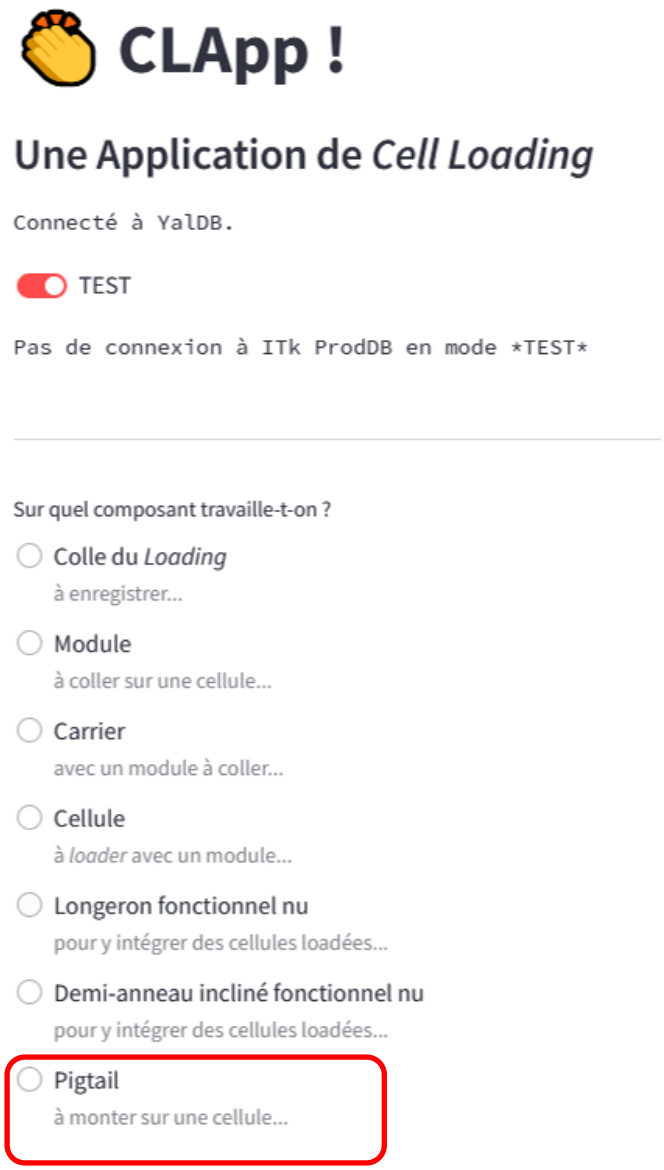
Session states

- Define display logic
- Save informations



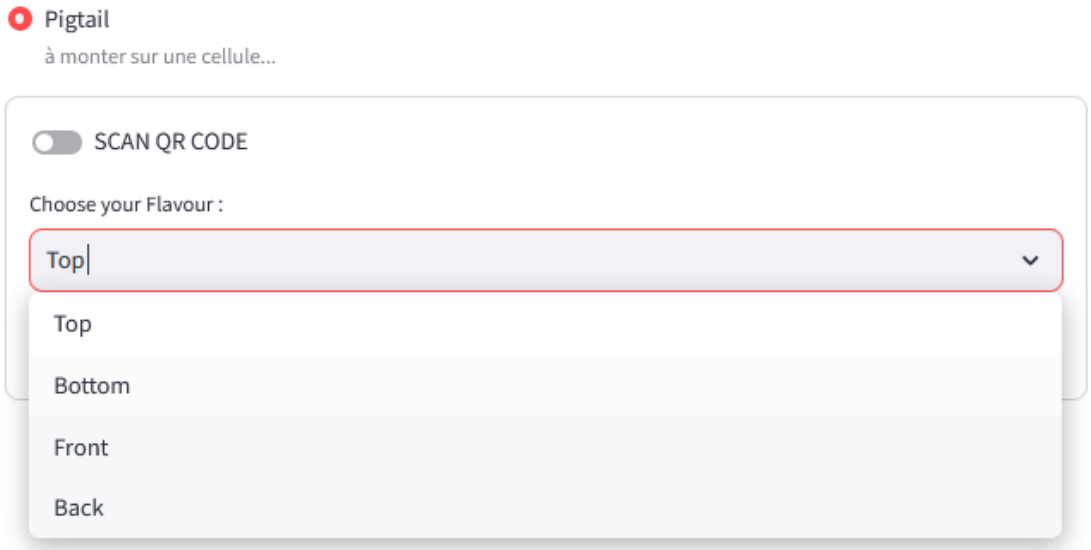
PAGES : AppMain

- CLApp main page
- Object selection

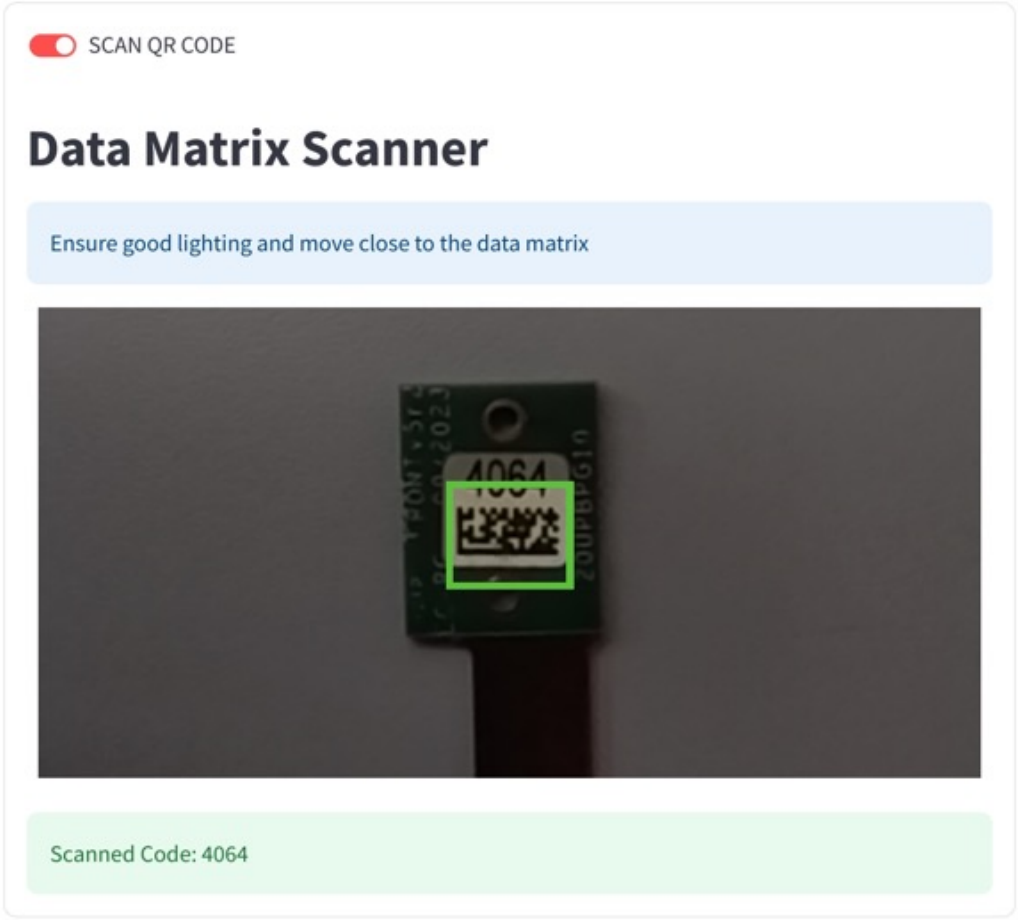


PAGES : AppMain

- Tests & Development
- Manual selection (4 flavours)

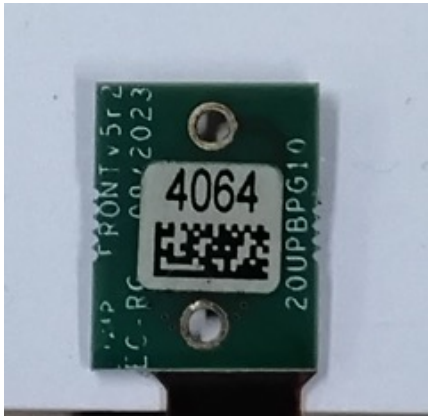


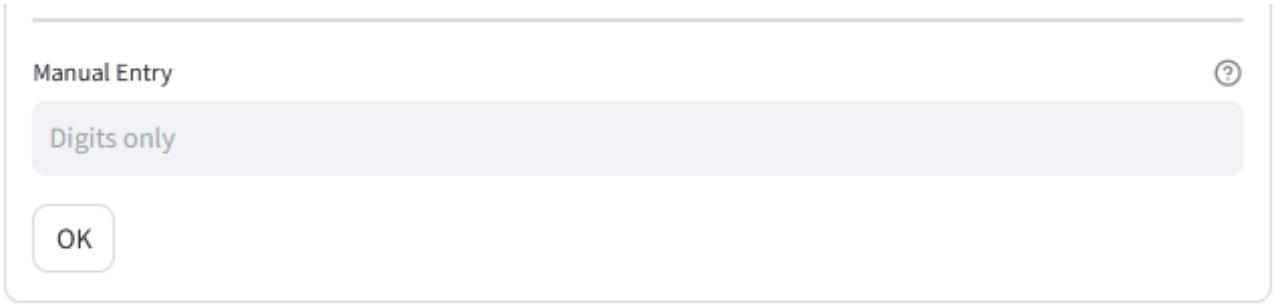
- Datamatrix scan
- Manual Pigtail ID



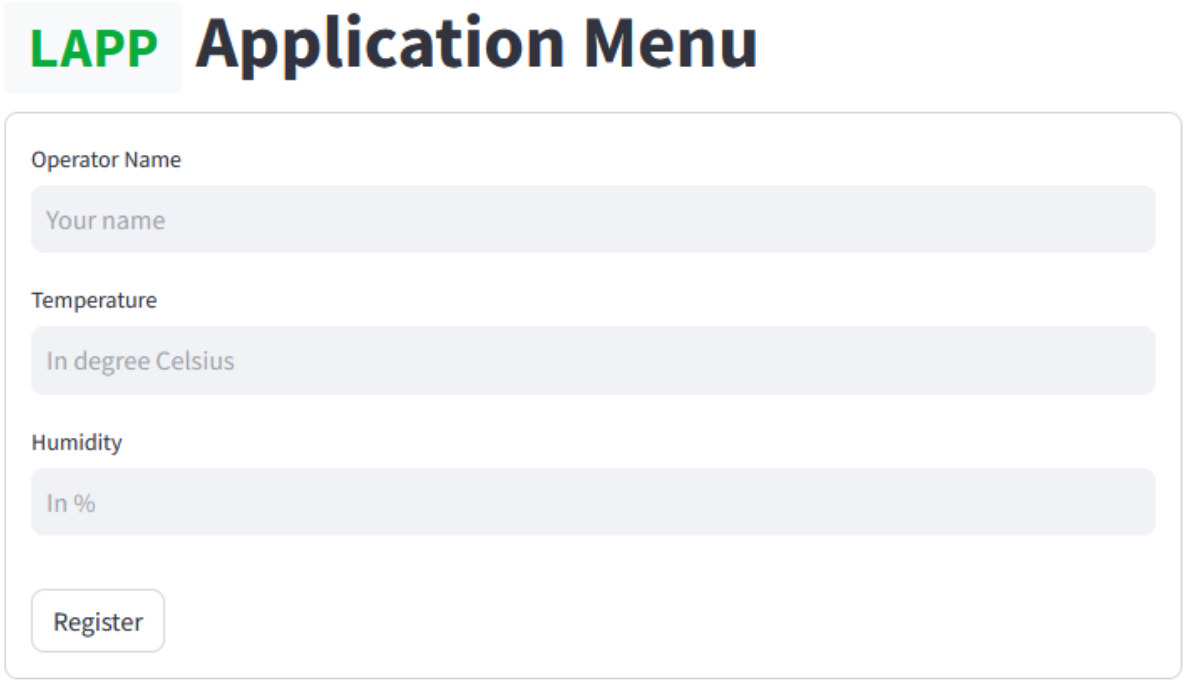
PAGES : AppMain

- Datamatrix scan
- Manual Pigtail ID



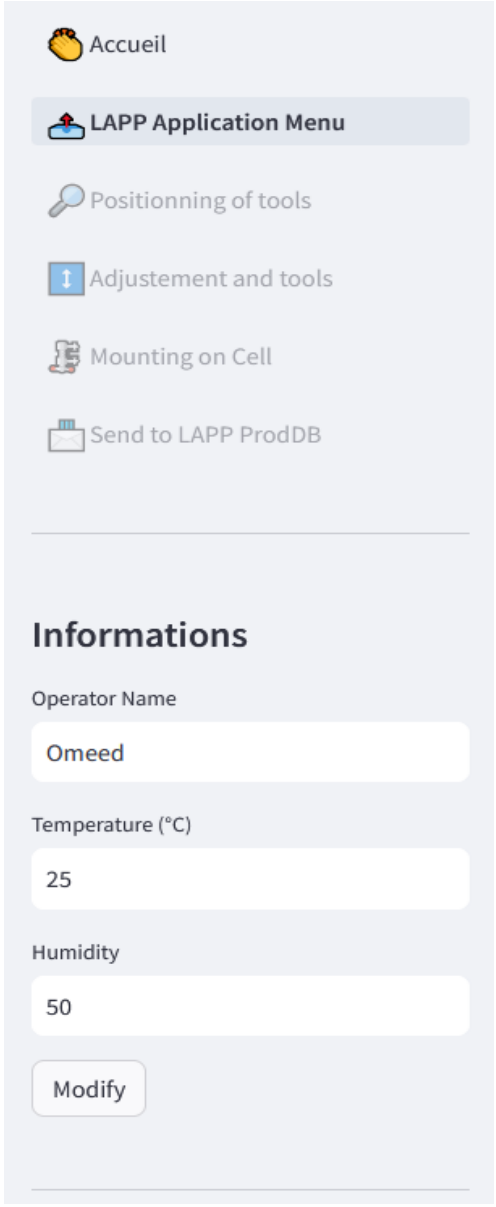


- Useful informations



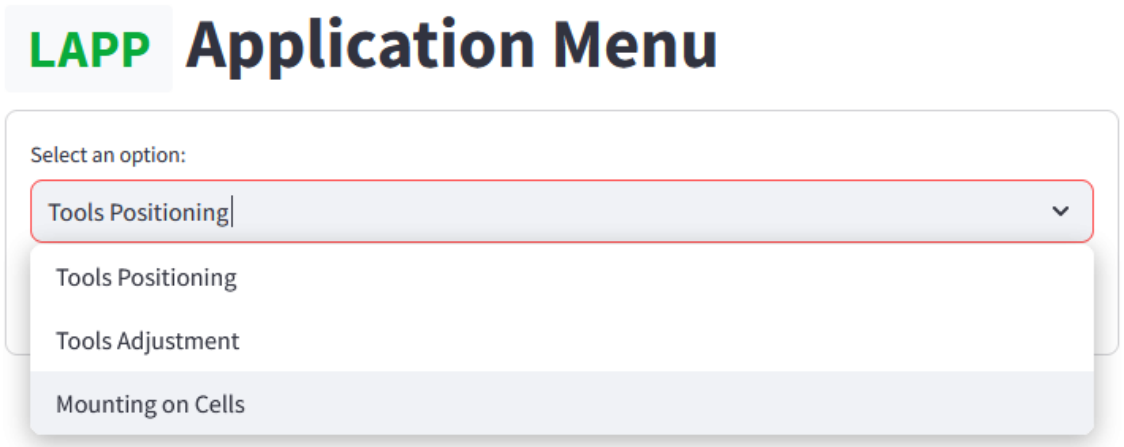
PAGES : LAPP Menu

- Useful informations
- Modification with sidebar



PAGES : LAPP Menu

- Useful informations
- Modification with sidebar
- Process navigation



- Independent picture

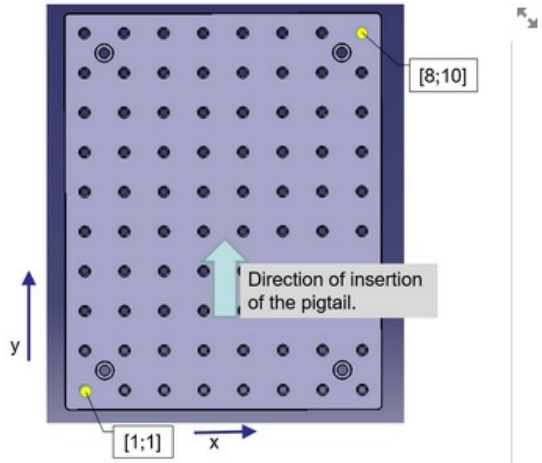
POSITION OF TOOLS

Breadboard

Coordinates on breadboards: locations for the parts are indicated in **x** and **y** from [1;1] to [8;10].
Other tools on optical poles locations will be adjusted with memory forks or painted mark.

The set-ups are presented with the tilting option for interposer use. They are presented as seen by the operator when pigtail is inserted.

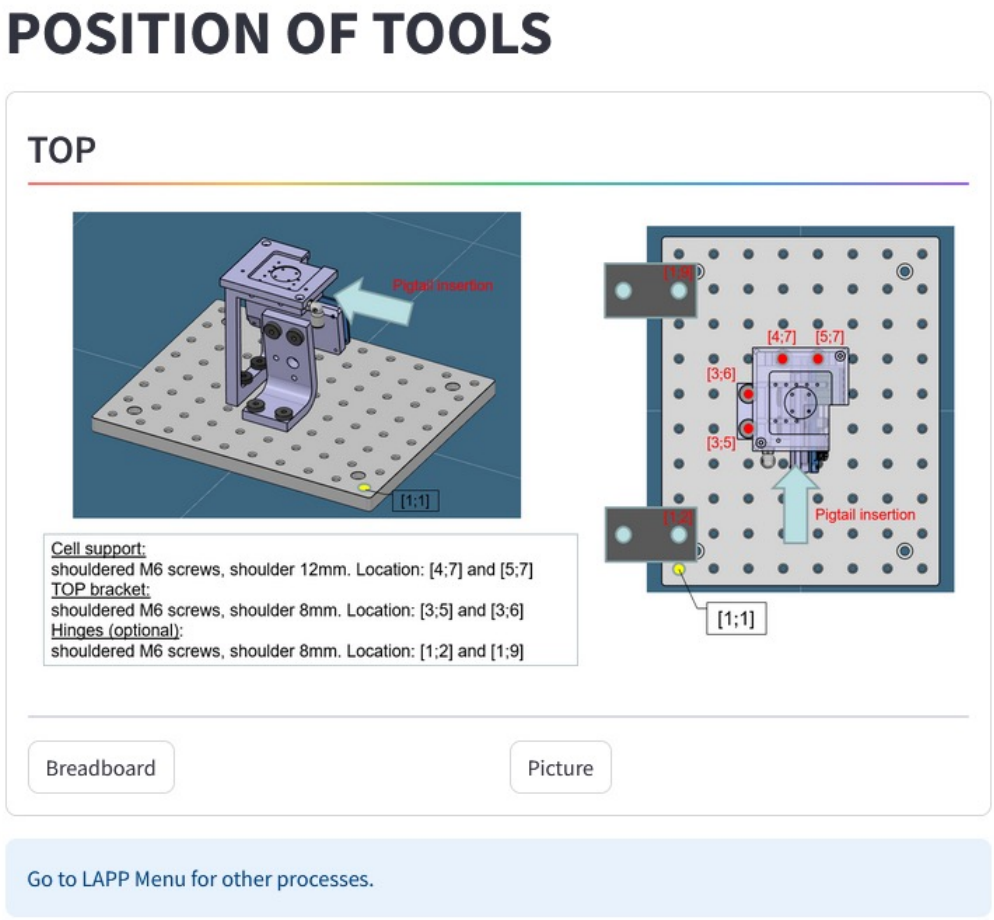
The following processes only describe the mechanical mounting, so no tilting option.



NEXT

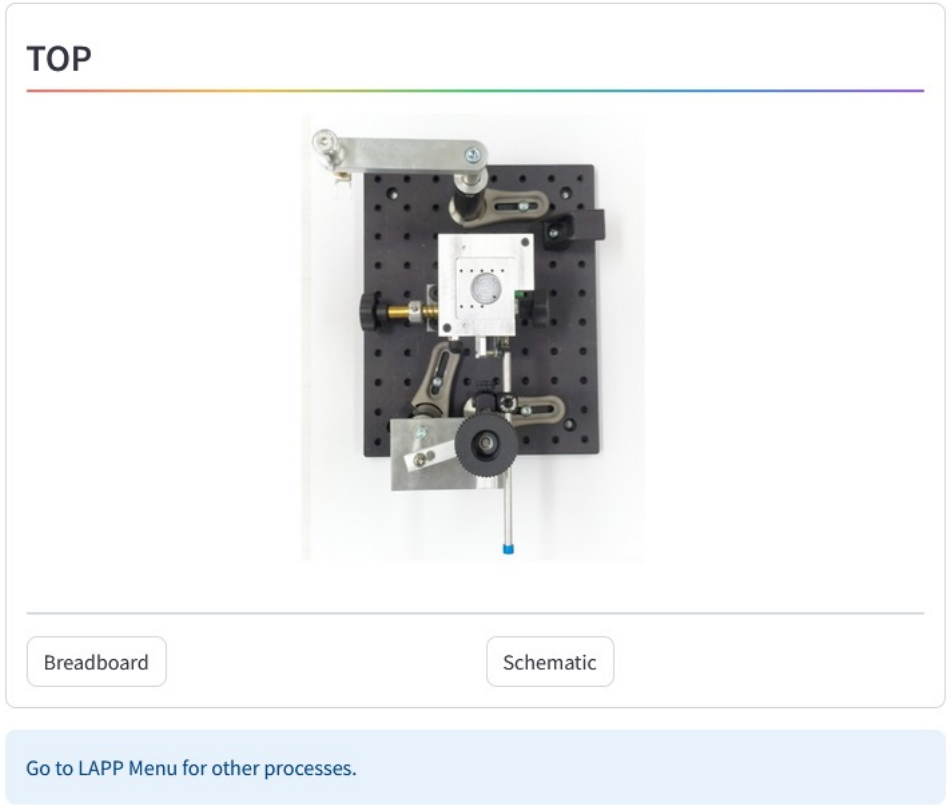
Go to LAPP Menu for other processes.

- Independent picture
- Specific display

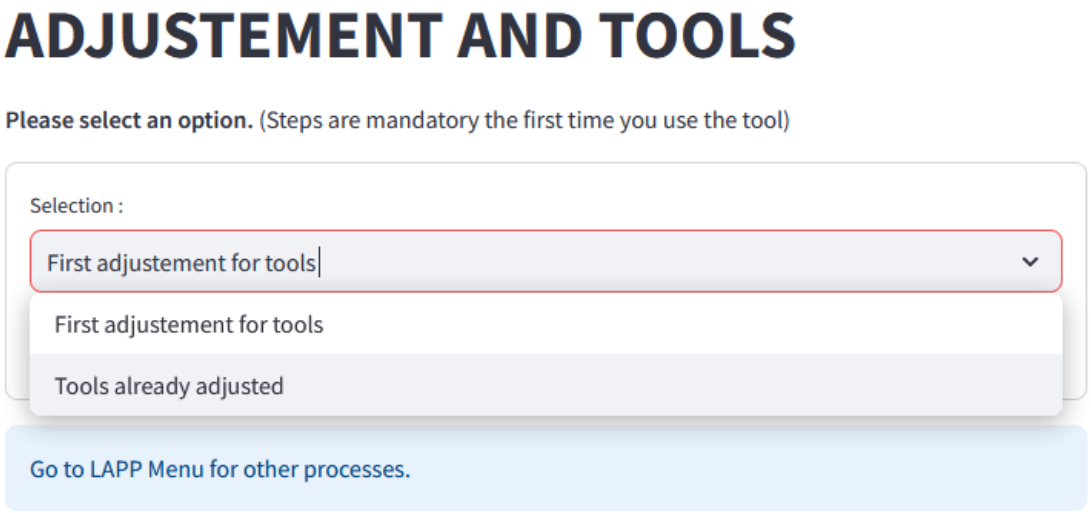


PAGES : Position of Tools

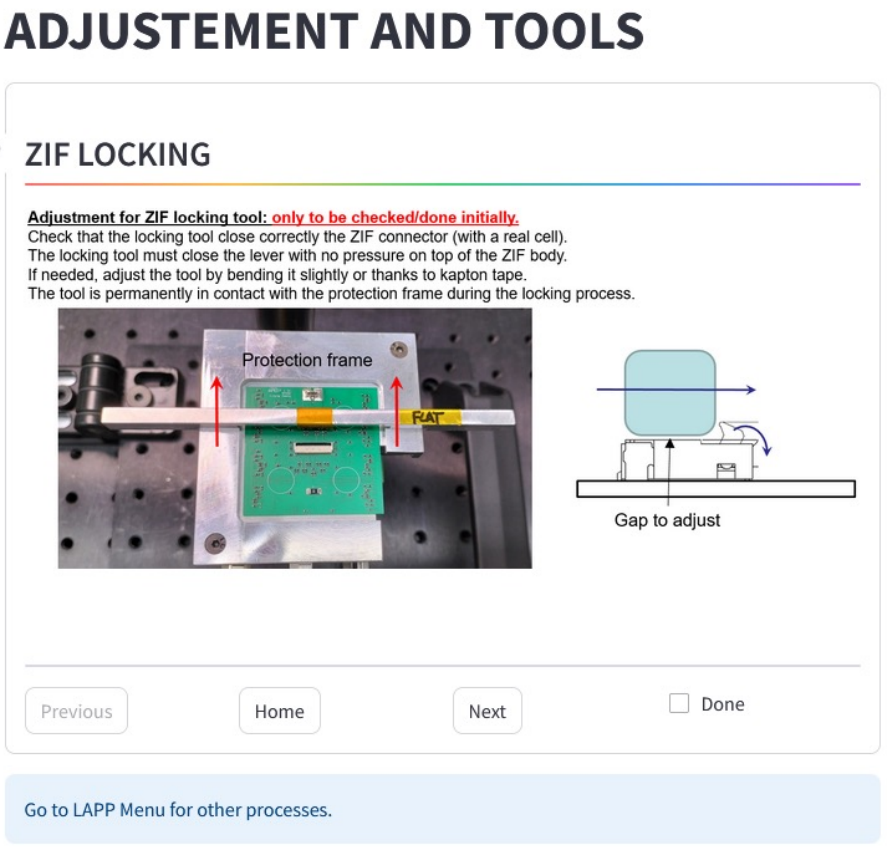
- Independent picture
- Specific display
- 2 images (Schematic, Real)



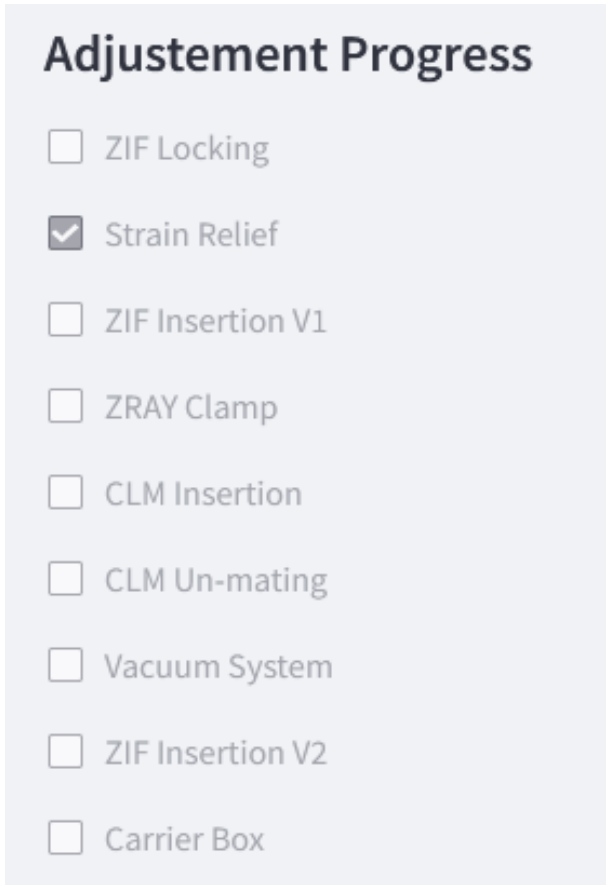
- SelectBox


ADJUSTEMENT AND TOOLS
Please select an option. (Steps are mandatory the first time you use the tool)
Selection :
First adjustement for tools
First adjustement for tools
Tools already adjusted
Go to LAPP Menu for other processes.

- SelectBox
- Step by step process



- SelectBox
- Step by step process

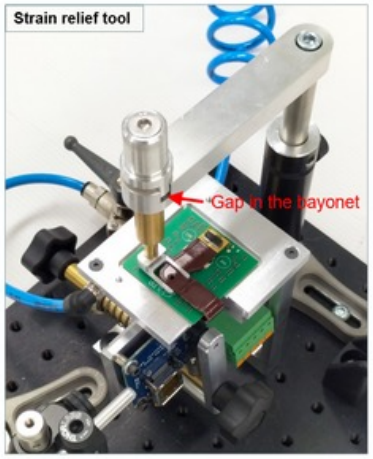


- SelectBox
- Step by step process
- Free choice

ADJUSTEMENT AND TOOLS

Choice :

Strain Relief



Strain relief and « Base for ZIF insertion » tools are mounted on poles that will be put in/removed from pole holders.
Holders are initially located thanks to a cell or a dummy cell.
Vertical stoppers allow the tool to be at the right height.

- **Strain relief tool:**
  Strain relief tool in action must be parallel to the support and the fork must surround the strain relief hole. The weight of the tool is foreseen to maintain the pigtail on the strain relief washer, so the height will be tuned in order to have a slight gap in the « bayonet ».
  For inclined set-ups, take care that the fork does not compress the pigtails on the data connector but on the strain relief.
  The « bayonet » allows to switch the tool from garage position to active position.

Go to LAPP Menu for other processes.

- Step by step guidance

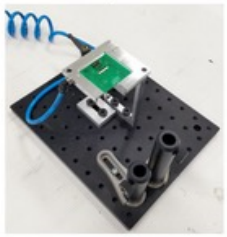
MOUNTING THE PIGTAIL

BACK

The following description shows pigtail mounting for **Inclined BACK**.
The process corresponds to a **MECHANICAL MOUNTING ONLY WITH NO ELECTRICAL TESTS.**
Strain relief implementation is not possible with the bracket and test board in place. Bracket and test board are used only if electrical tests are needed: The set-up is limited to the cell support.
Back process doesn't need to tilt the set-up, even for electrical tests.

Check that the ZRAY board flavour is "**BACK**" (Lakmin's board).

Principal steps:
- load the cell on the support & check.
- ZIF insertion.
- ZIF locking.
- remove the ZIF locking tool.
- CLM connection.
- ZRAY clipping.
- strain relief implementation.
- unload the cell and storage.

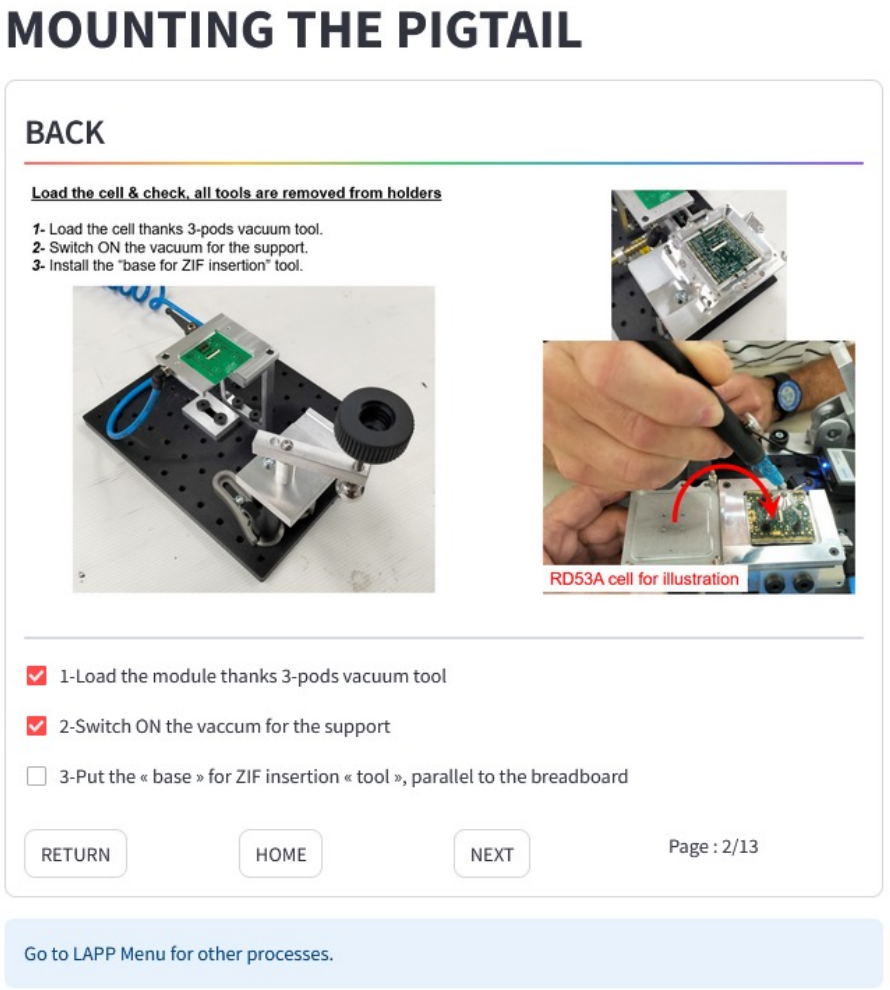


RETURN HOME NEXT Page : 1/13

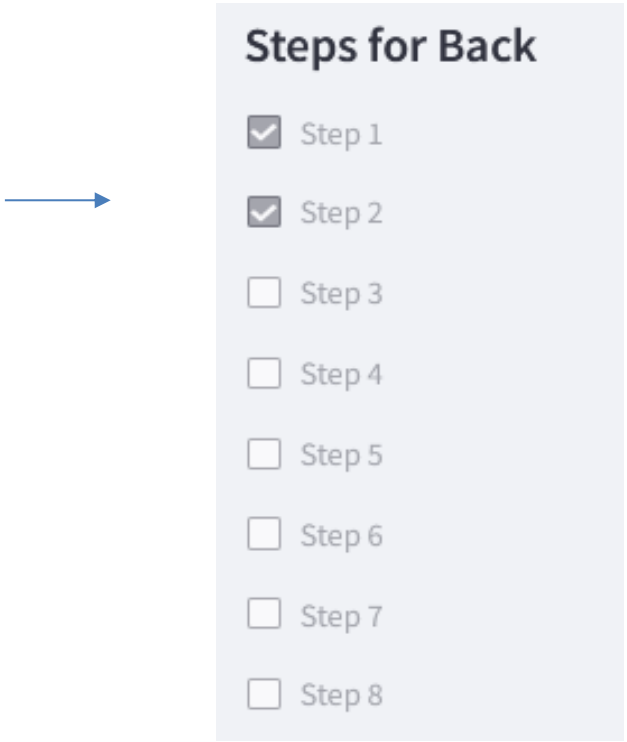
Go to LAPP Menu for other processes.

PAGES : Mounting on Cells

- Step by step guidance
- Process anticipation

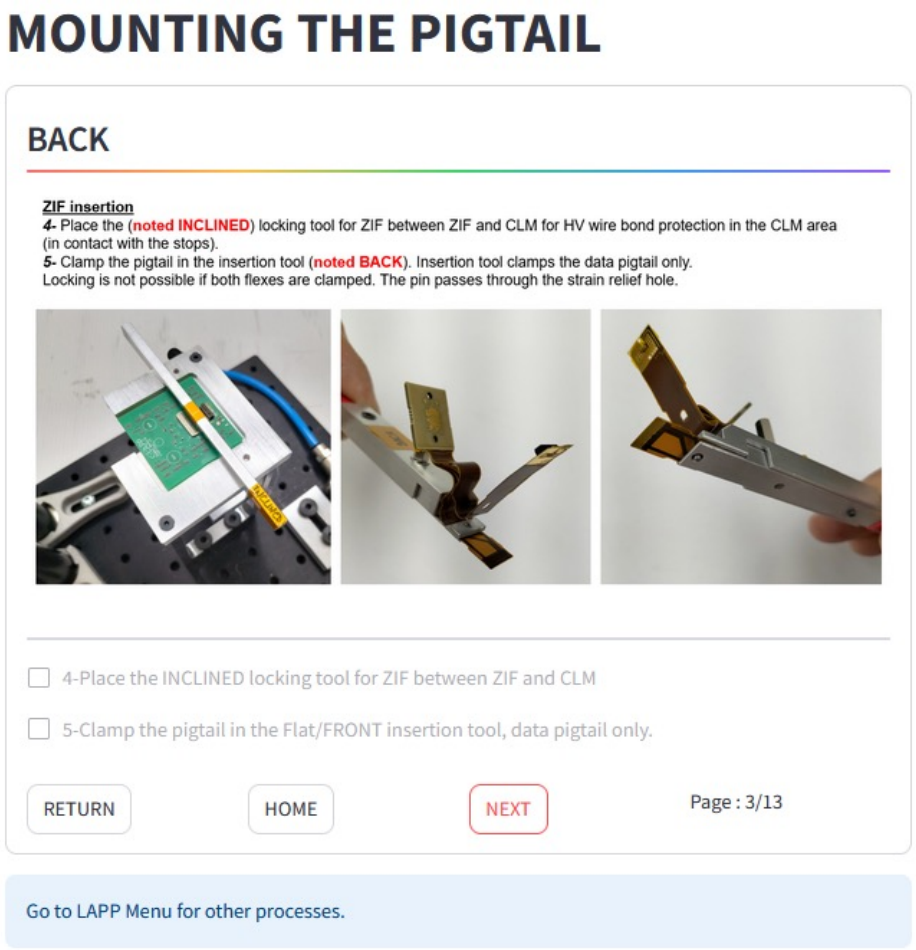


- Step by step guidance
- Process anticipation
- Checkbox steps confirmation

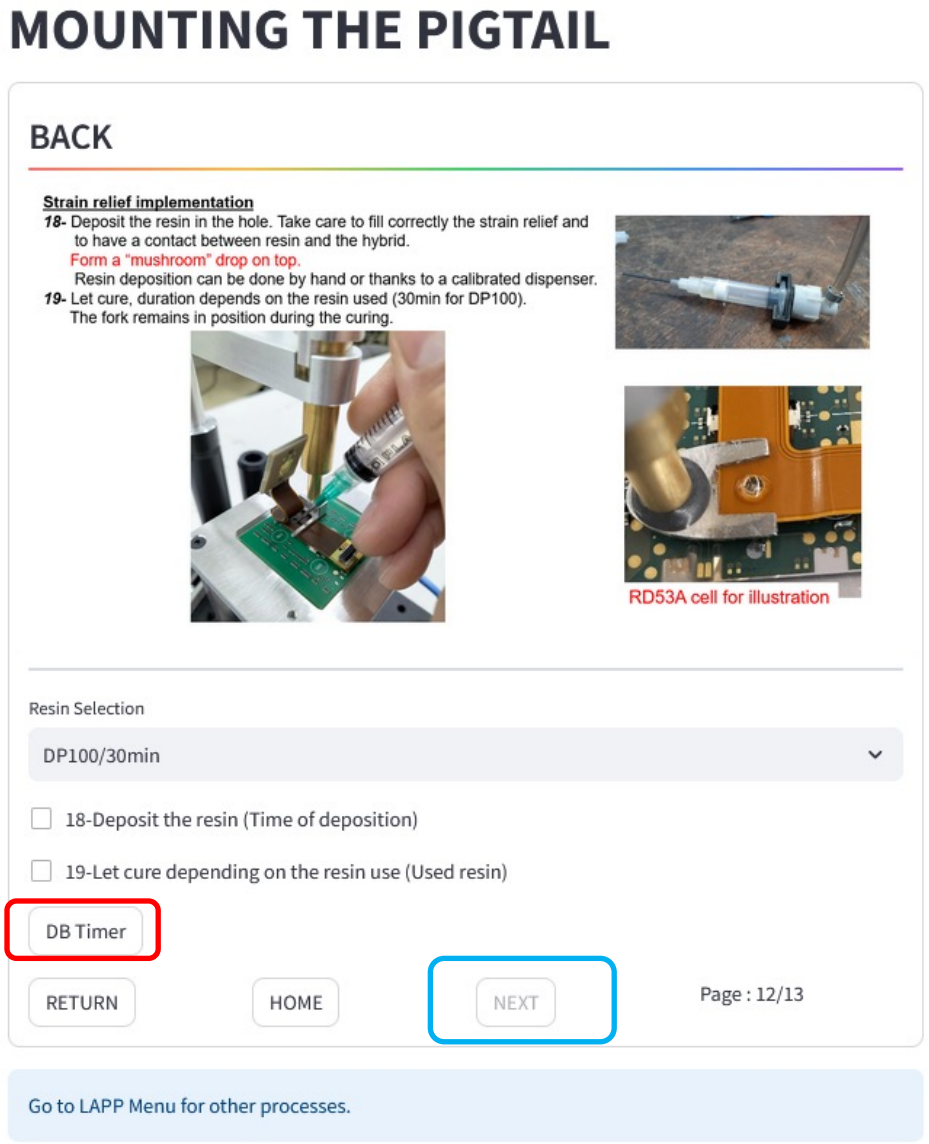


PAGES : Mounting on Cells

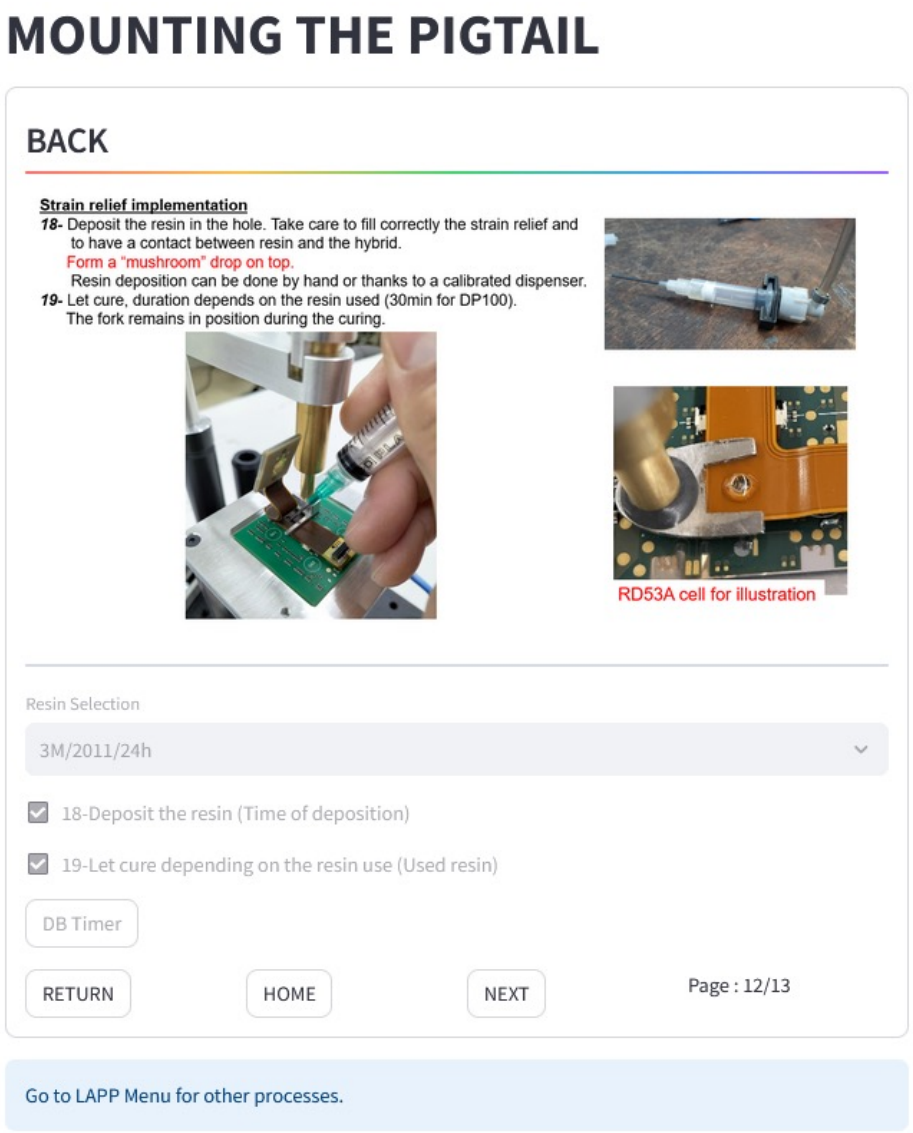
- Step by step guidance
- Process anticipation
- Checkbox steps confirmation
- Disable until previous checked



- Interactive process
- PostgreSQL for curing completion
- DB Timer → DB confirmation

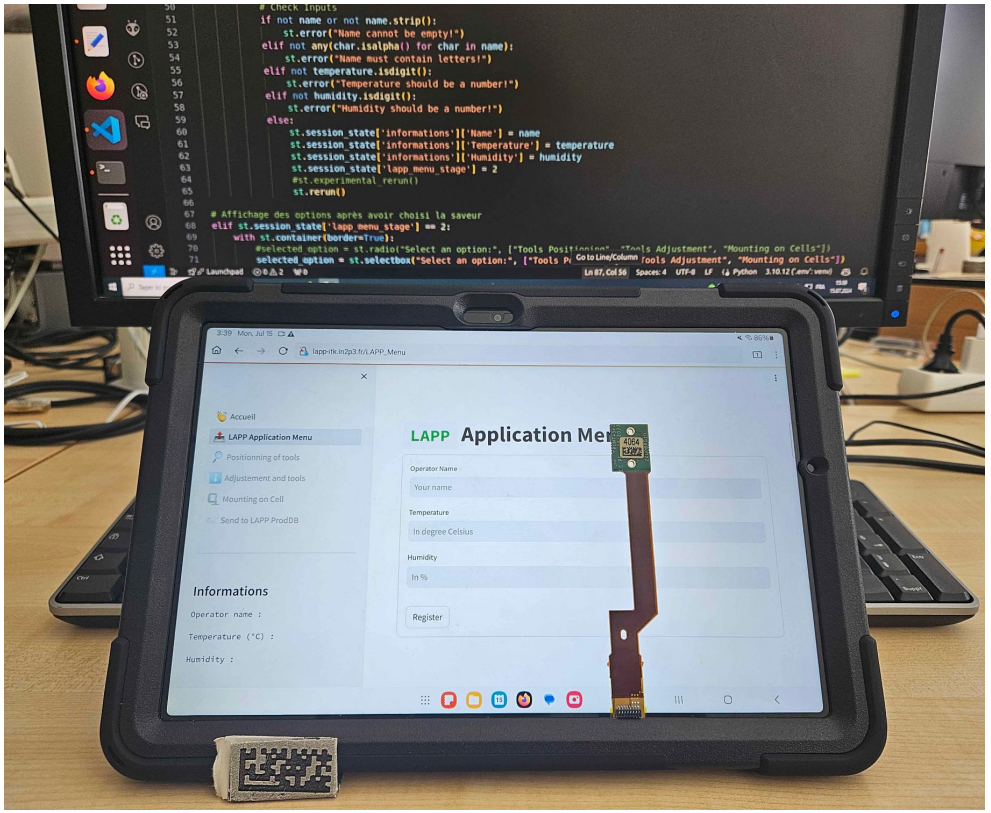


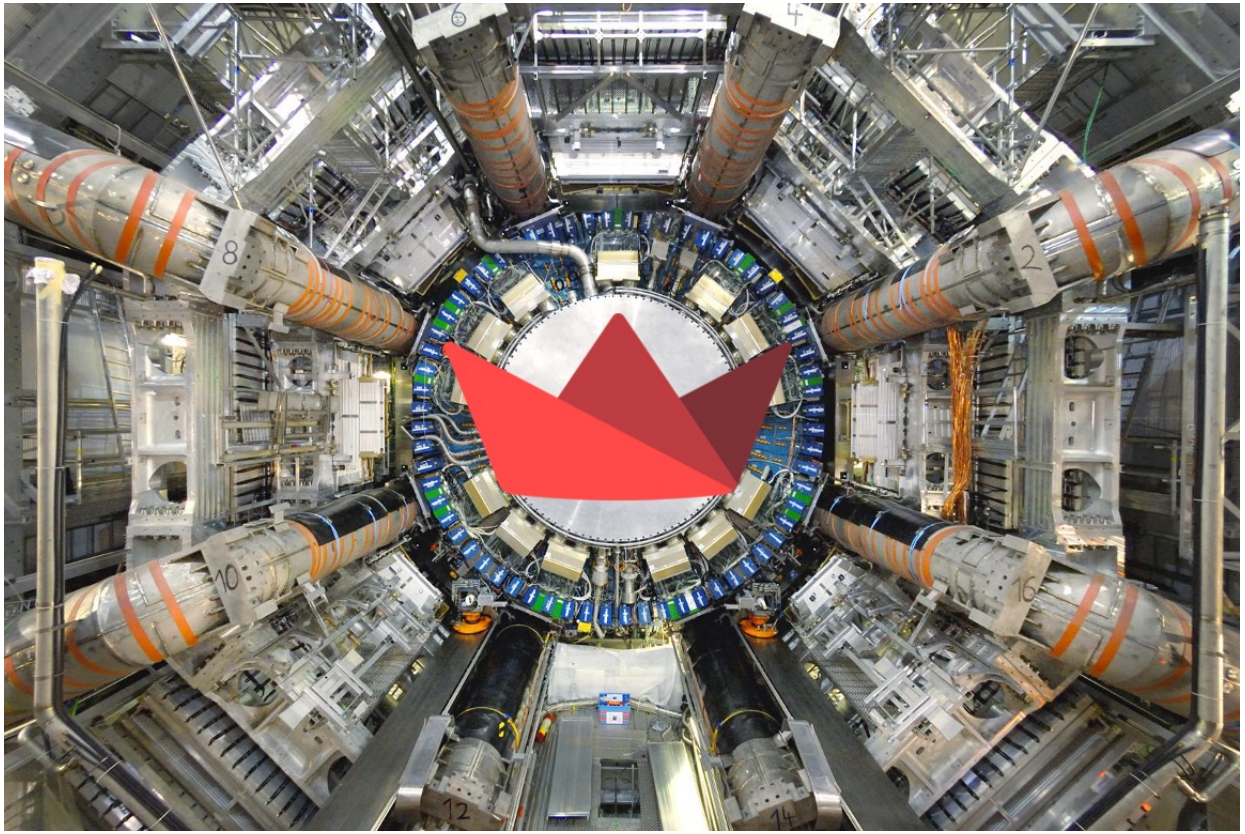
- Interactive process
- InfluxDB for curing completion
- DB Timer → DB confirmation
- Checkboxes disable NEXT activate



Summary

- WebApp is functionnal
- Navigate through the processes
- Missing DB Integration





THANK YOU