

# The New Physics Educational Laboratory Website

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# The Original Problems

- Educational laboratory resources are restricted, disorganized, and disappearing from memory.
- Significant risk that a significant amount of intellectual resources could be lost permanently.
- Limited storage space.

# The Original Problems

- Restricted access to experiment documents.
- Disorganized experiment documents.
- Experiments disappearing from memory.
- Equipment stored in 16 different rooms.
- Equipment with unknown purpose taking up valuable space.

# The Deliverables

- Organized Lab Documents - Archive.
- Open access to information.
- Platform for Collaboration.
- Transferable Knowledge.
- Foundation for Future Development.
- Created Room to Grow.
- Tools for Ease of Upkeep.

# Instructor Use Cases

- What did the last instructor do?
- Do we have a lab that deals with Wave Mechanics?

# Lab Developer Use Cases

- I want to make some changes to the current labs?
- Is there information on where this lab came from?
- I want to build a brand new lab?
- How did you make those diagrams?

# Developing a new Experiment

- Download templates.
- Build new experiment.
- Save papers used in development.
- Save sample data.
- List topics covered, and math skills required.
- List equipment.
- Final product is added to repository.
- Experiment is now available for next developer.

# Keeping it Relevant

- Built with popular languages.
- Built back-end tools for updating and validating?
- Requires buy in from all stakeholders?
- Requires that document are added before semester start?