

Object-Oriented Programming

Semester 2025 II

Domotic Circuit Simulation

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CONCEPTUAL DESIGN UPDATES

After having a discussion and checking again the Workshop 1, we were thinking that maybe this items need to improve, but we ain't completely sure about it. This were the items that made us think a lot

- As you can notice in the solution of the other points, we noticed that is very important to add encapsulation in some classes because those were public and this may affect the user experience. This approach prevents unauthorized modification of internal states and ensures system reliability and security.
- To improve user experience, additional usability features are proposed: Saving user preferences (language, theme, autosave interval), implementing notifications for errors, saves, or invalid connections, including an *undo/redo* system for circuit design operations and adding visual indicators for active connections or circuit errors.