I. Research Overview and Outcome

Problem Statement
- Implement a testable adaptation logic using the existing testable adaptive system simulator framework
- Research about implementing adaptation logics that take history into consideration to improve the decisions done in the future

Reasoning Framework
Composition
- Online Validator – validates different configurations and procedures, part of changes, etc, during runtime i.e. it is always working
- Change Validator – verifies that the product is safe. If needed it repairs the product. If changes are too heavy then it returns to the adaptation logic.

Behavior
- When the online validator detects an empirical constraint adds it to the DSPL model
- Restriction patterns should be logged as a response for a series of values of an environmental property

Case Study Implementation
Tasks
- Log every error / mistake in the development process
- Log the effort you put in the development of the adaptation logic
- The adaptation logic (reasoning engine) must comprise memory

Outcome
- Extracted the adaptation logic rules from the adaptation requirements
- The adaptation logic implemented uses Ponder 2 and it policy evaluation engine to execute the required adaptive change.

II. International Experience

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