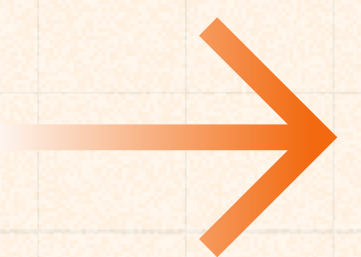


THE 5 WORST DOMAIN MODEL ANTI-PATTERNSTHAT WILL HAUNT YOUR MENDIX APP

Bonus: Implementation Plan And
Cheatsheet

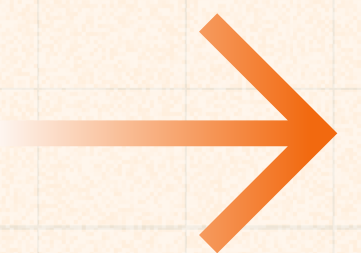


#1

INHERITANCE HELL

- ✗ Going too deep (beyond 3 levels).
- ✗ Using inheritance where associations work better.
- ✗ Not documenting why you structured it this way.

Fix: Keep it **shallow, clear, and justifiable**.

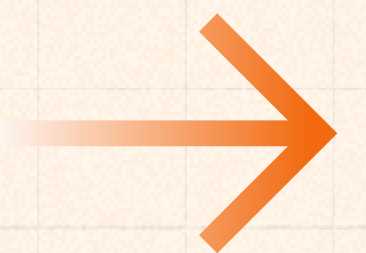


#2

CARDINALITY CONFUSION

- ✗ One-to-many relationships that should be many-to-many.
- ✗ Forgetting to document expected relationship behavior.
- ✗ Creating bidirectional associations **when unnecessary**.

Fix: Be intentional with relationships. **Define cardinality clearly.**

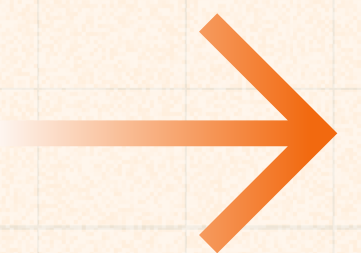


#3

THE STRING FOR EVERYTHING SYNDROME

- ✗ Using Strings instead of Booleans, Integers, or Enums.
- ✗ Storing complex data inside Strings instead of proper attributes.

Fix: Use **precise data types** for better performance.

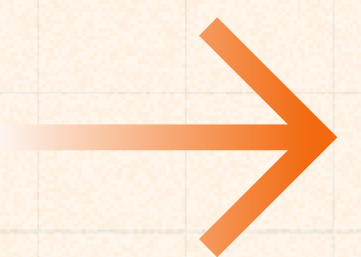


#4

THE INDEXING DISASTER

- ✗ Not indexing frequently queried attributes.
- ✗ Indexing everything and killing write performance.
- ✗ Forgetting to **optimize based on real queries**.

Fix: Strategic indexing **based on actual query patterns**.

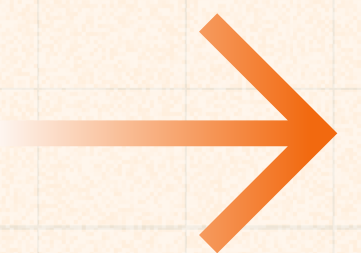


#5

VALIDATION NEGLECT

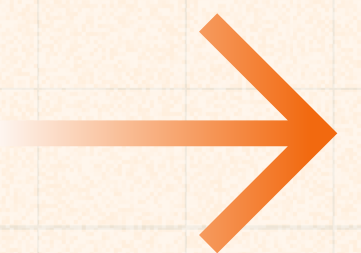
- ✗ Relying solely on microflows for validation.
- ✗ No constraints on attribute lengths.
- ✗ Allowing garbage data that slows down queries.

Fix: **Validate at the attribute level.** It's faster and cleaner.



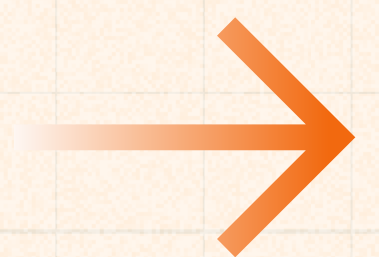
TURNING KNOWLEDGE INTO ACTION

THE DOMAIN MODEL IMPLEMENTATION PLAN



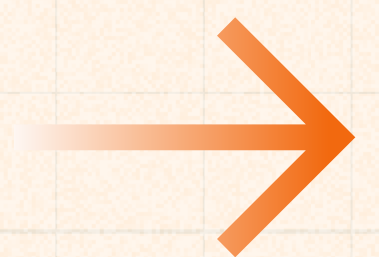
IMPLEMENTATION STRATEGY ACTION STEPS

1. **Follow a Modular Domain Structure** – Design with separation of concerns in mind.
2. **Document Your Domain Model Thoroughly** – Your future team will thank you.
3. **Review with Business Stakeholders** – Ensure alignment with real-world processes.
4. **Optimize Based on Actual Performance Testing** – Don't rely on theory; validate.
5. **Regularly Refactor as Requirements Evolve** – Your app must grow with your business.



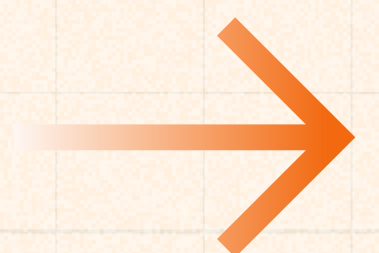
TOOLS & RESOURCES TO HELP YOU EXECUTE

- **Mendix's Domain Model Documentation** – Learn from the source.
- **Database Modeling Best Practices** – Avoid common pitfalls.
- **ERD Visualization Tools** – See your structure clearly.
- **Performance Testing Reports** – Test, measure, and optimize.
- **Data Volume Growth Projections** – Plan ahead for scalability.



NEXT STEPS FOR YOUR TEAM

- **Review your existing domain models** – Spot potential issues now.
- **Check inheritance depth** – Keep it clean.
- **Verify attribute data types** – Optimize for efficiency.
- **Document relationship cardinality** – Define how entities connect.
- **Plan strategic indexing based on query patterns** – Speed up your app.



LET'S TALK

for a consultation or connect with me directly!



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