

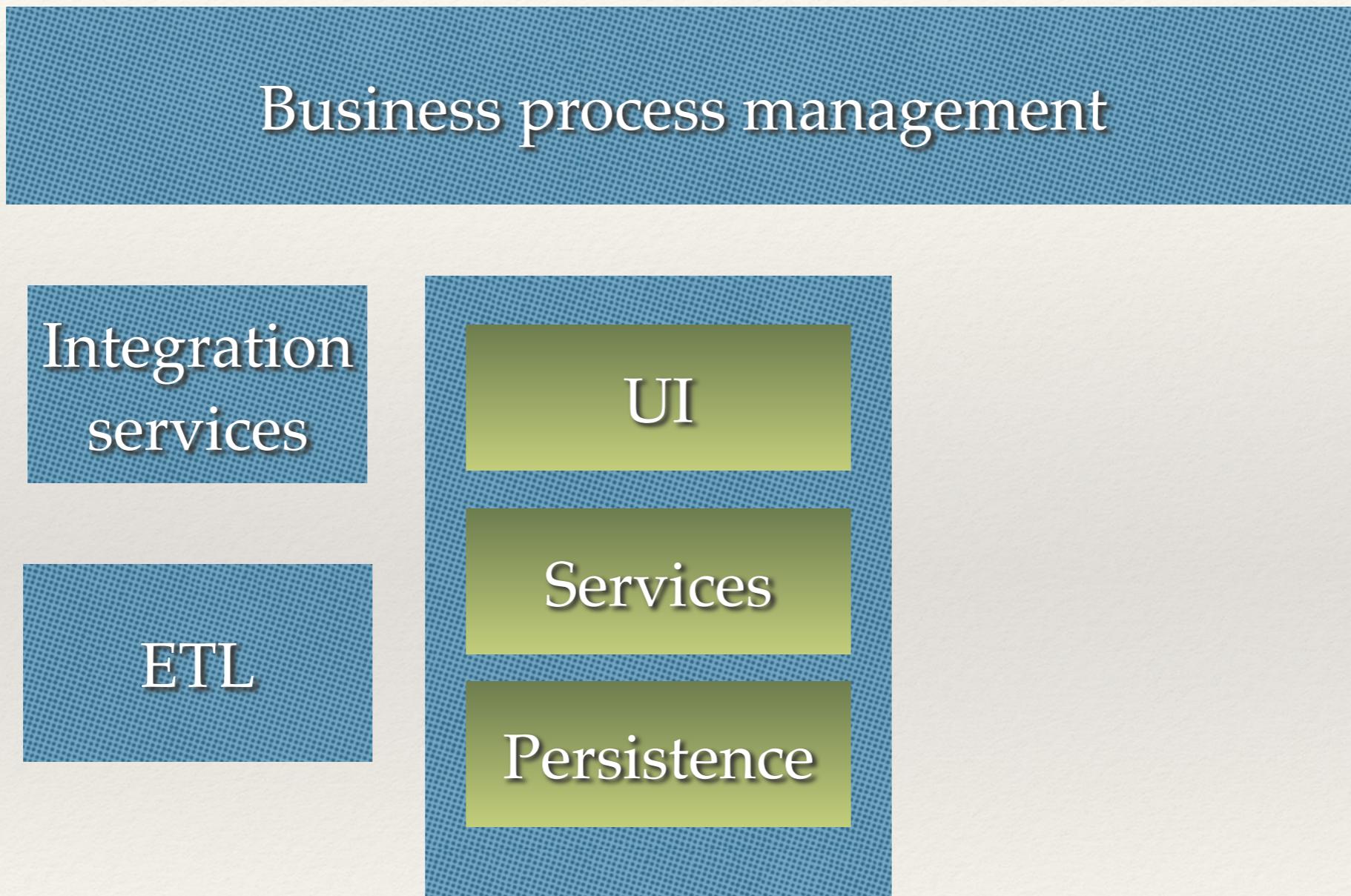
Domain specific language in action

Tura - application generation solution

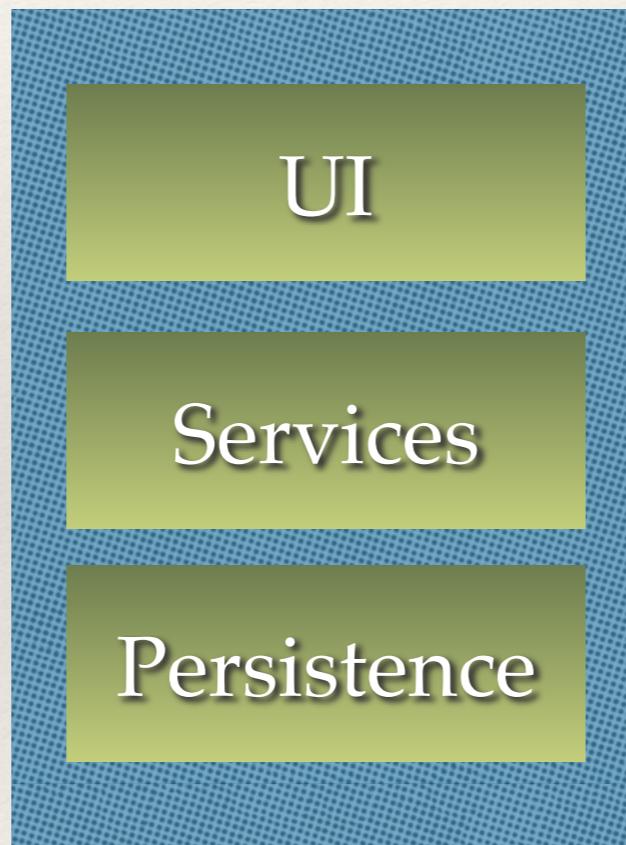
- Generate
- Build
- Deploy



Architecture of business application



Target to redesign



High level diagram



UI framework



UI framework integration



Data control



Object repository

Object repository

- Repository design pattern
- Object assembling
- Object serialization and delivery to remote client
- Object modification tracking
- Apply modification to persistence layer

Object repository

Object repository proxy

Transport layer

Object repository

Persistence layer

DB

SalesForce

Services

Object repository

- Object repository proxy
 - Tracking object update
 - Save point , rollback changes
- Transport layer
 - Serialization and deserialization of object
 - Serialization and deserialization of command
 - Transmitting information through network
- Object repository
 - Object assembling
 - Applying changes
- Persistence layer
 - Storage

Data control



- Cursor interface
- Establish relationship between objects



- Paging against object repository
- Keep order between created and existing object
- Apply changes on updated object



- Propagate updates between different data controls

UI framework integration

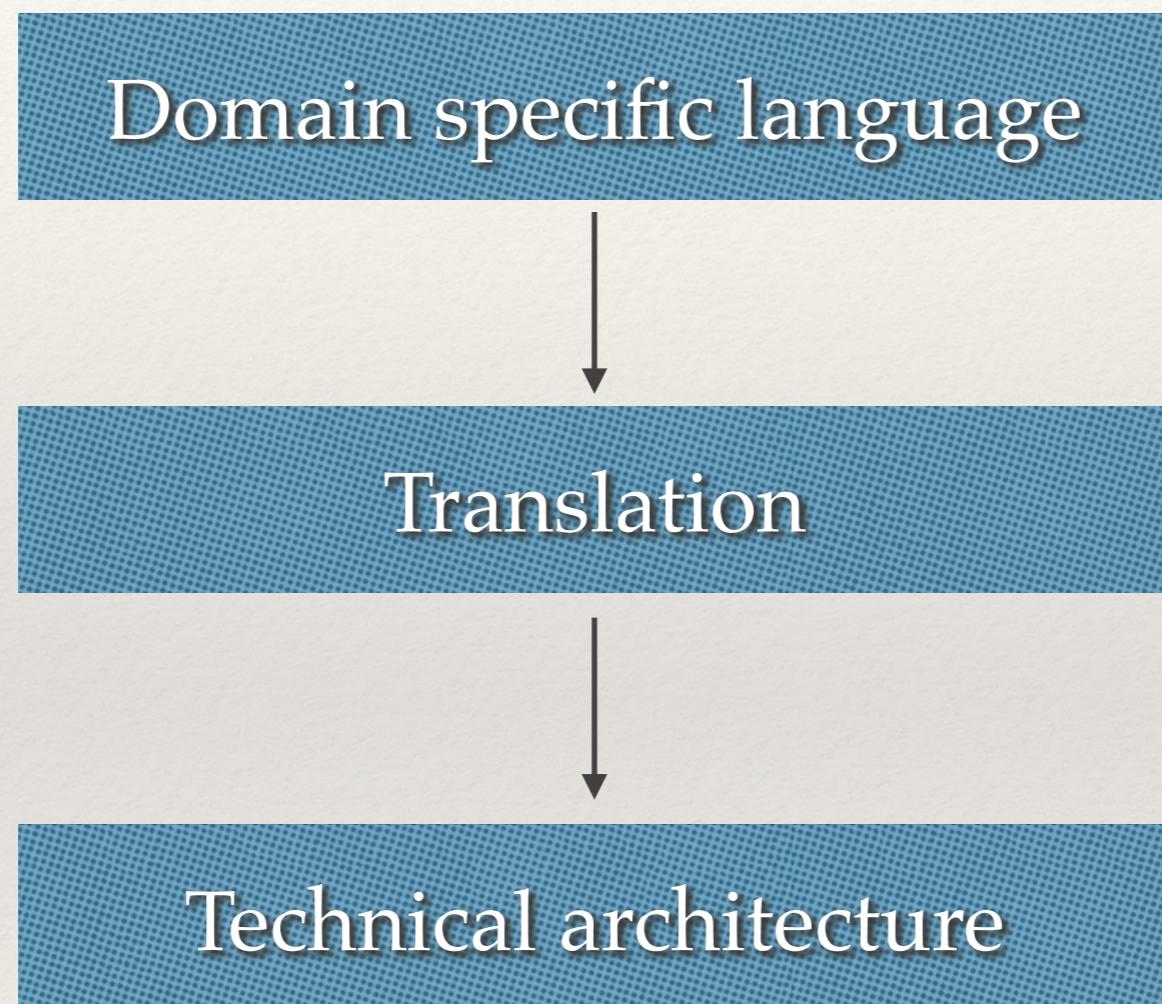
UI framework integration

- Building model for specific UI element using data control API

Domain specific language

Nothing to do with business !

Domain specific language



Domain specific language

Domain specific language

- Identified structure of meta model

Translation

- Generation templates
- Technical architecture

Technical architecture

- Engine

Domain specific language

Demo of meta model editor
and code generation

Domain specific language

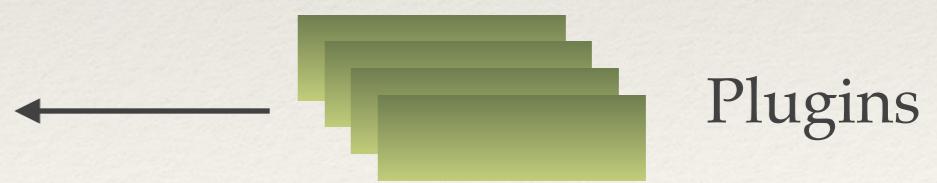
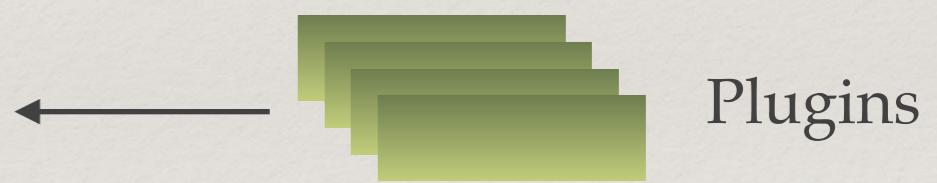
Main rule of code generation

Do not touch generated code

Do not modify generated code

Use plugin to modify behaviour

Domain specific language



Tura solution

Request to Arseniy.Isakov@turasolutions.com