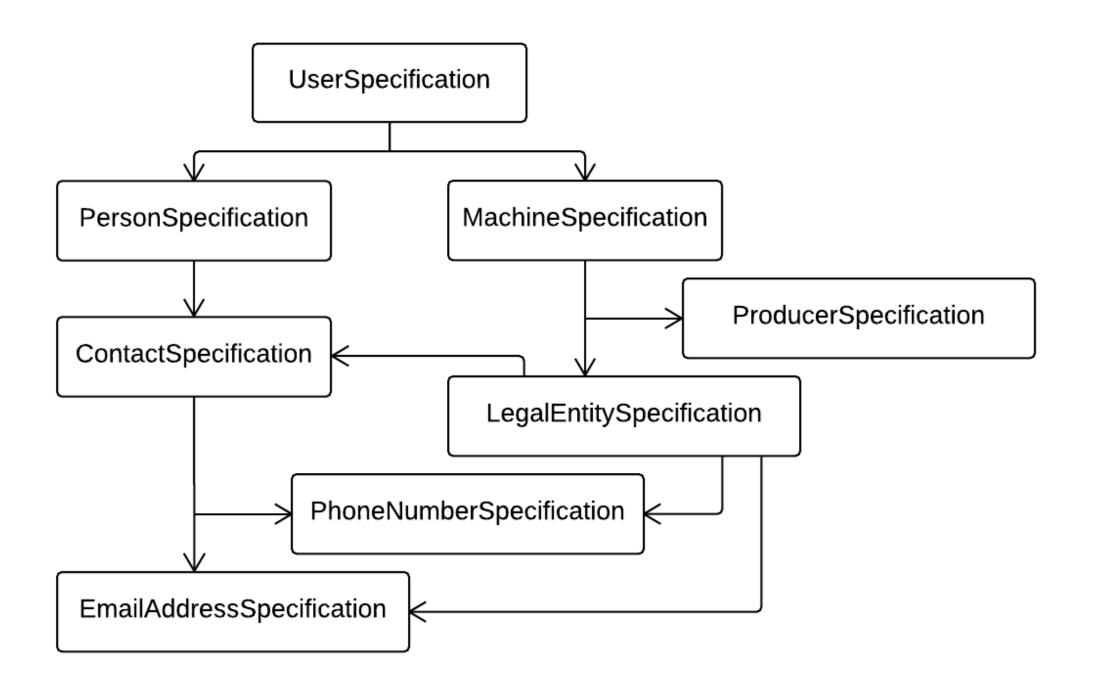
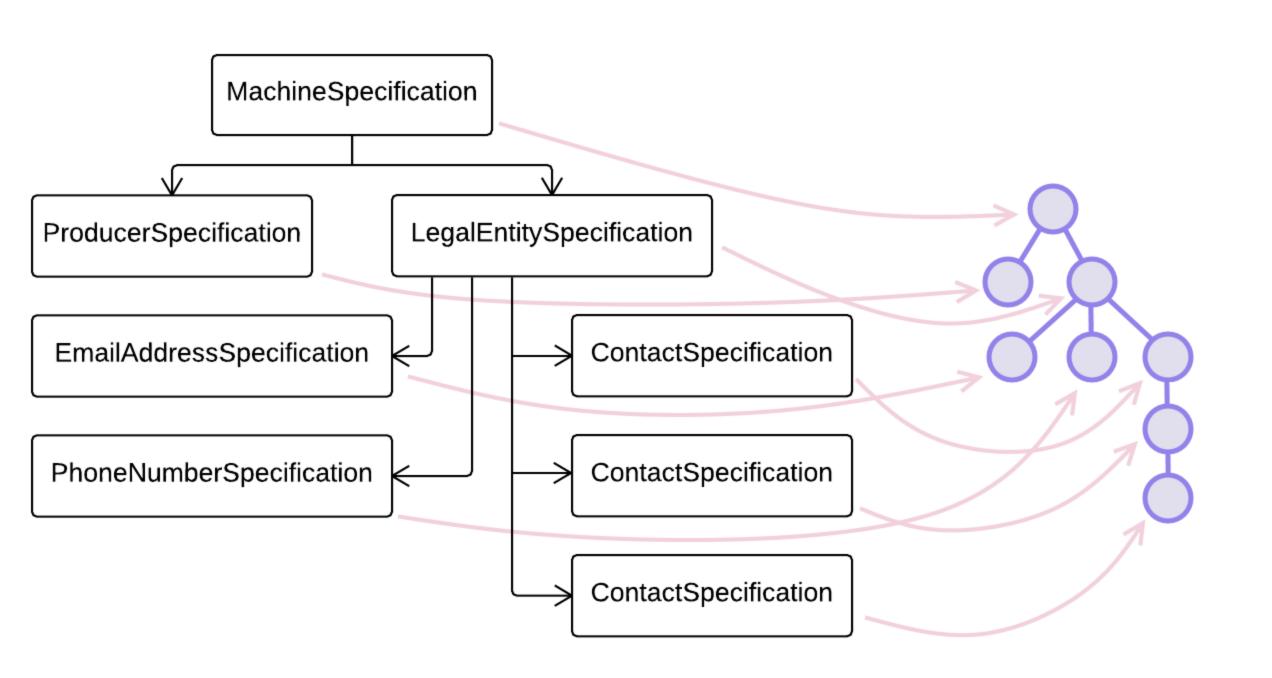
# Building Object Graphs with the Specification Pattern

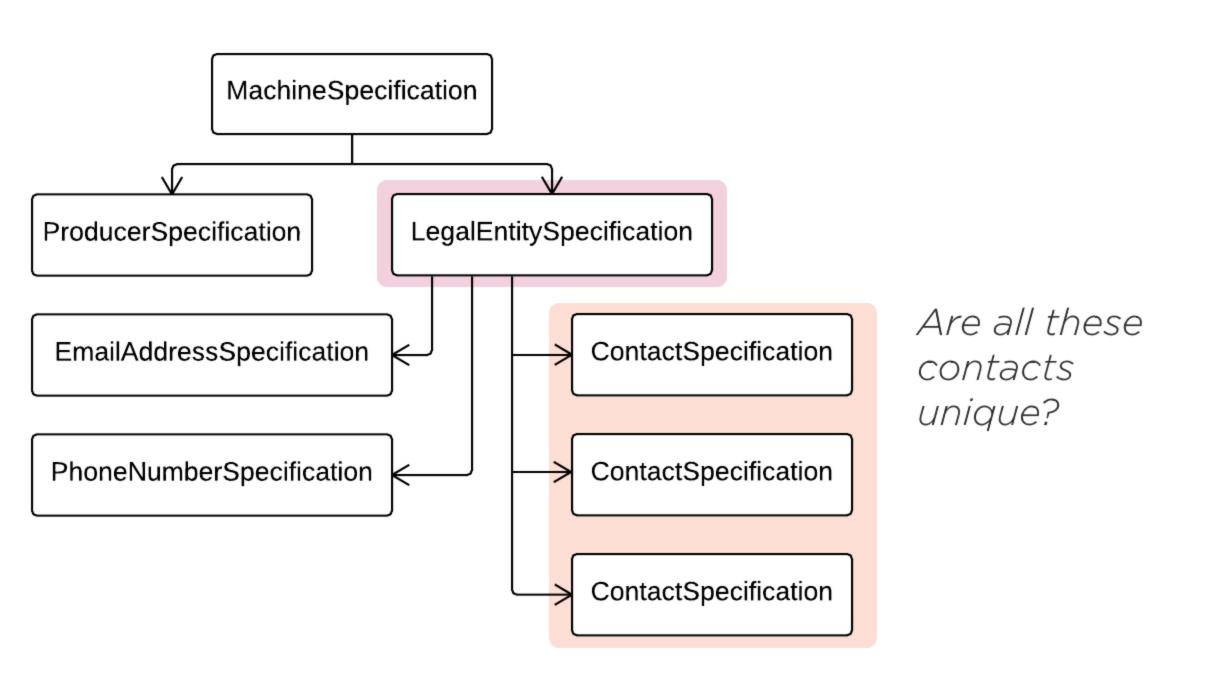


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# Choosing Creational Method

#### Constructor?

Everything is said in one line of code

## **Abstract Factory?**

Separates consumer from provider, and still in one line of code

## **Factory Method?**

Covariant on its product, and still in one line of code

#### **Builder?**

Validation rules, temporal coupling during object construction; acts as executable documentation

## Specification?

Builder has grown too large, parts of the product must be specified recursively



# Summary



# Specification design pattern

- Wraps entire building process
- Includes order of operations
- Includes data validation

## **Advanced Specification pattern**

- Remove compile-time requirement to be covariant on the product type
- Comparison of future objects

# Choosing appropriate creational method

- Pull the desired benefits
- Pay as low as possible in added code



# Summary



#### Non-default constructor

- Use it always
- Avoid default constructor

### **Abstract Factory and Factory Method**

- Very frequently in use
- Use lambda returning new object

#### Builder

- Used from time to time
- Construction process is complicated
- Full interface segregation, immutable Builder, state transition control

## **Specification**

- Very rarely useful
- Only use with very complicated model



# Other Pluralsight Courses



Design Patterns Library by a group of authors

Design Patterns On-Ramp by Jeremy Clark

## Tactical Design Patterns in .NET series

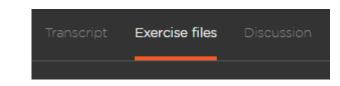
- Managing Responsibilities
- Control Flow
- Creating Objects



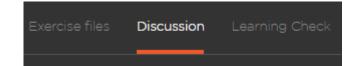
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