Design Document

**Database Design**

class Lifecycle  
 has\_many :projects  
 has\_many :lifecycle\_phases  
end  
  
class Project  
 belongs\_to :lifecycle  
 has\_many :project\_phases  
 has\_many :lifecycle\_phases, :through=> :project\_phases  
end  
  
class LifecyclePhase  
 belongs\_to :lifecycle  
 has\_many :project\_phases  
 has\_many :projects, :through => :project\_phases  
 has\_many :deliverable\_types  
end  
  
  
class ProjectPhase  
 belongs\_to :project  
 belongs\_to :lifecycle\_phase  
 has\_one :custom\_deliverable\_type  
 has\_many :stock\_deliverable\_types  
end  
  
class DeliverableType  
 belongs\_to :lifecycle\_phase  
 belongs\_to :unit\_of\_measure  
 has\_many :stock\_deliverable\_types    
end  
  
  
class StockDeliverableType  
 belongs\_to :project\_phase  
 belongs\_to :deliverable\_type  
 has\_many :deliverables, :as => :project\_deliverable\_type  
end  
  
class CustomDeliverableType  
 belongs\_to :project\_phase  
 has\_many :deliverables, :as => :project\_deliverable\_type  
end  
  
  
class Deliverable  
 belongs\_to :project\_deliverable\_type, :polymorphic => true  
end