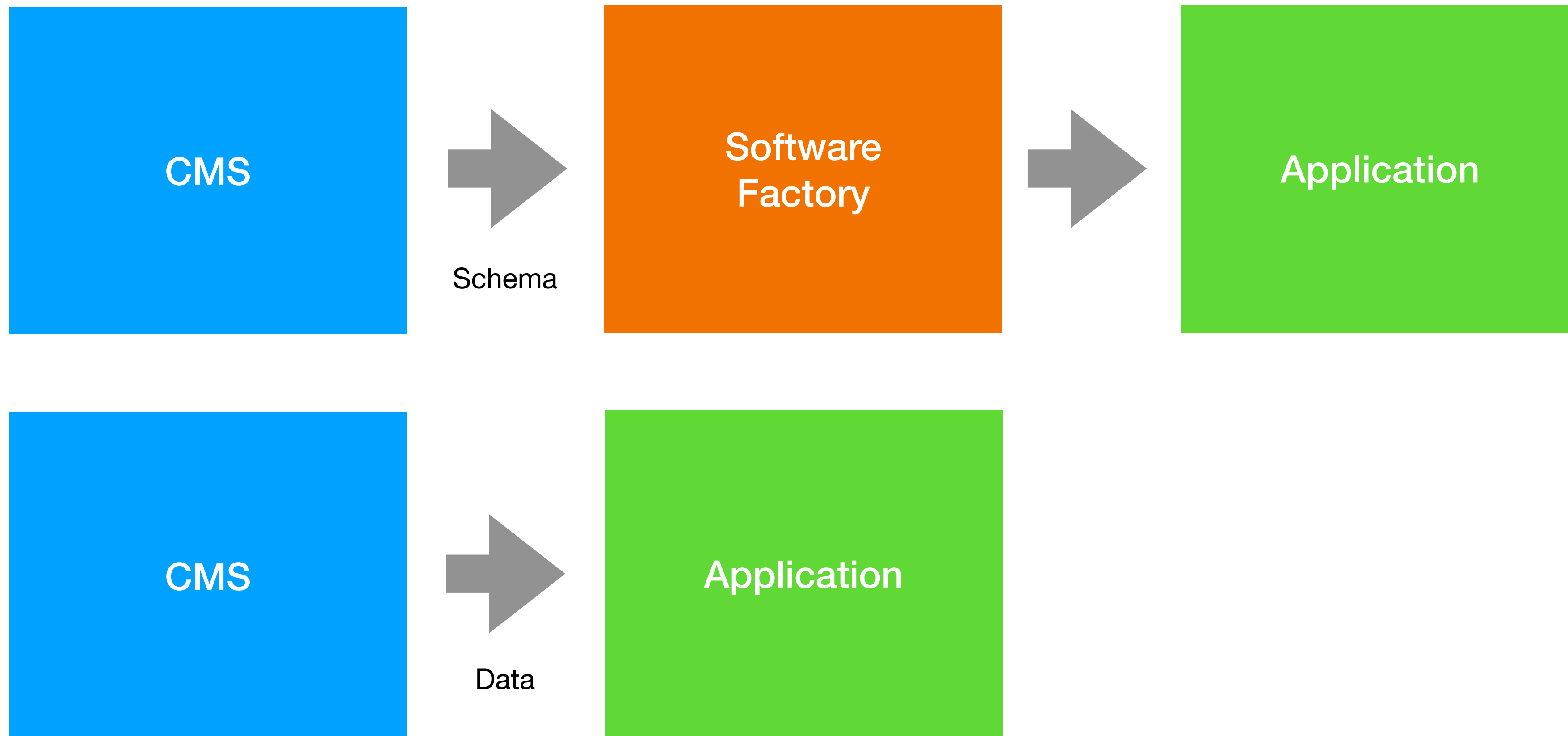


CMS driven Software Factories

Generating application infrastructure with customisations

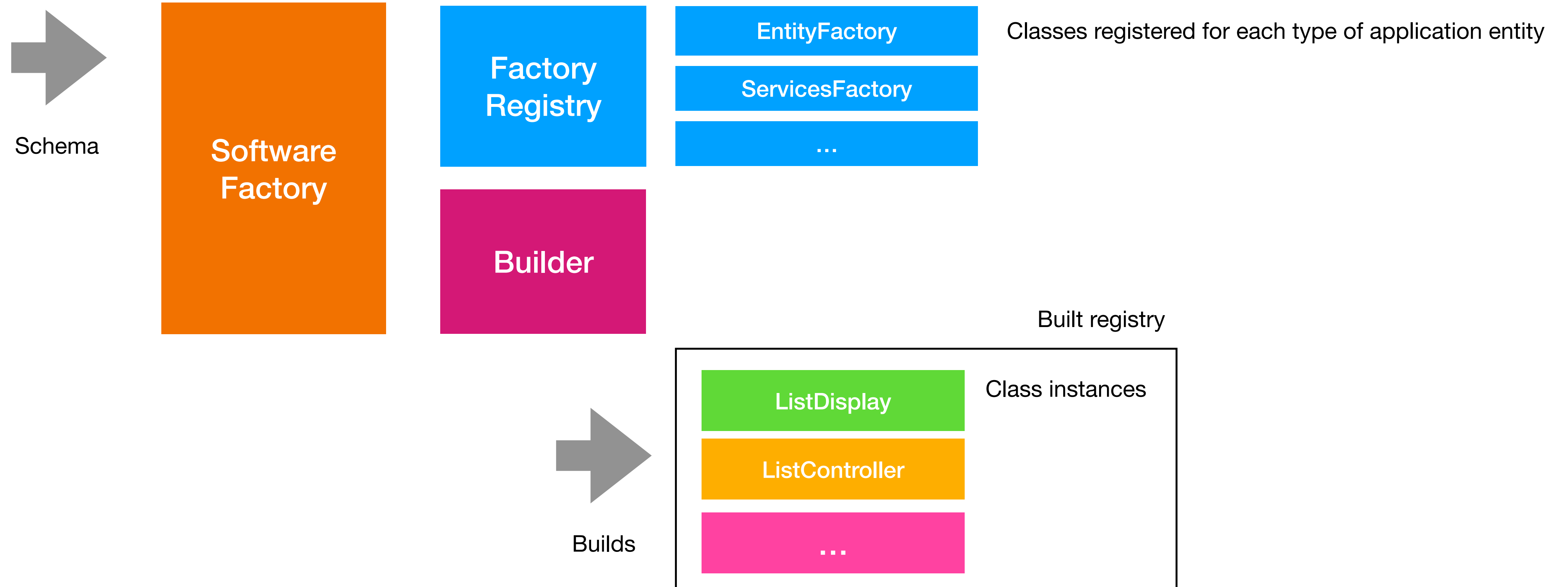
Kristian Mandrup

Runtime Application generation and Assembly

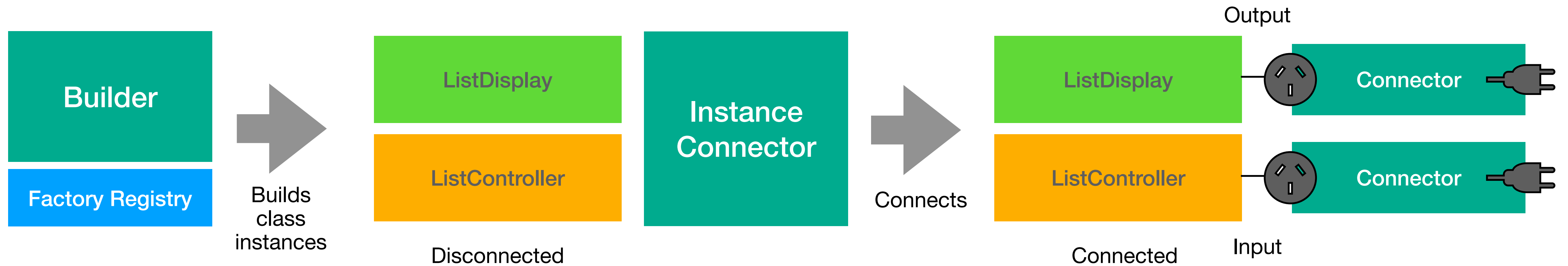
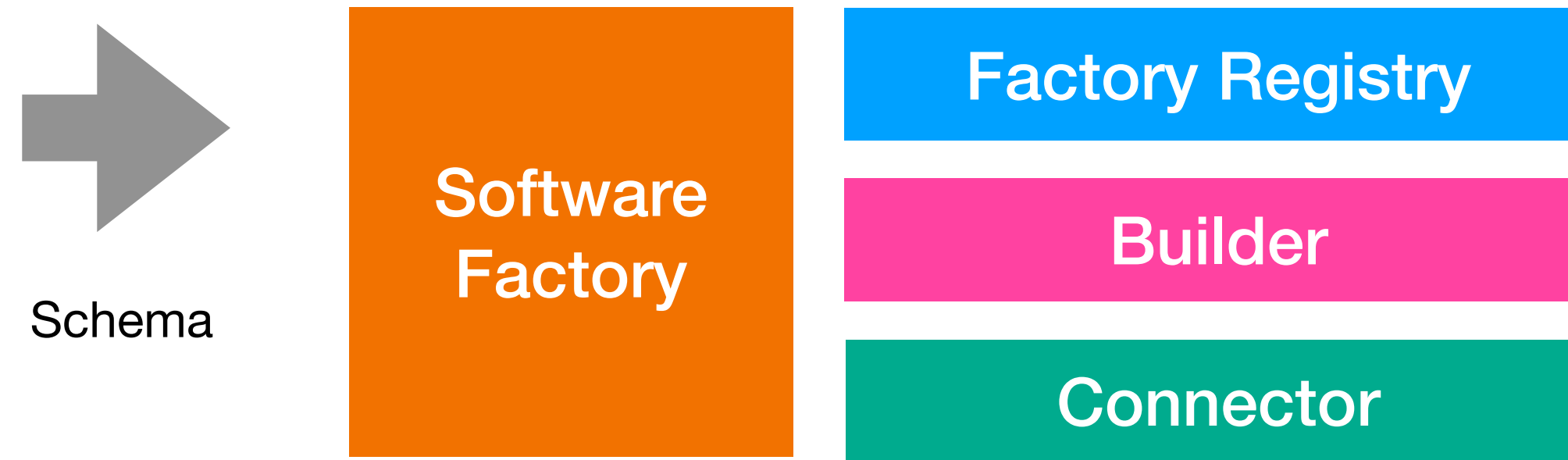


Application Factory

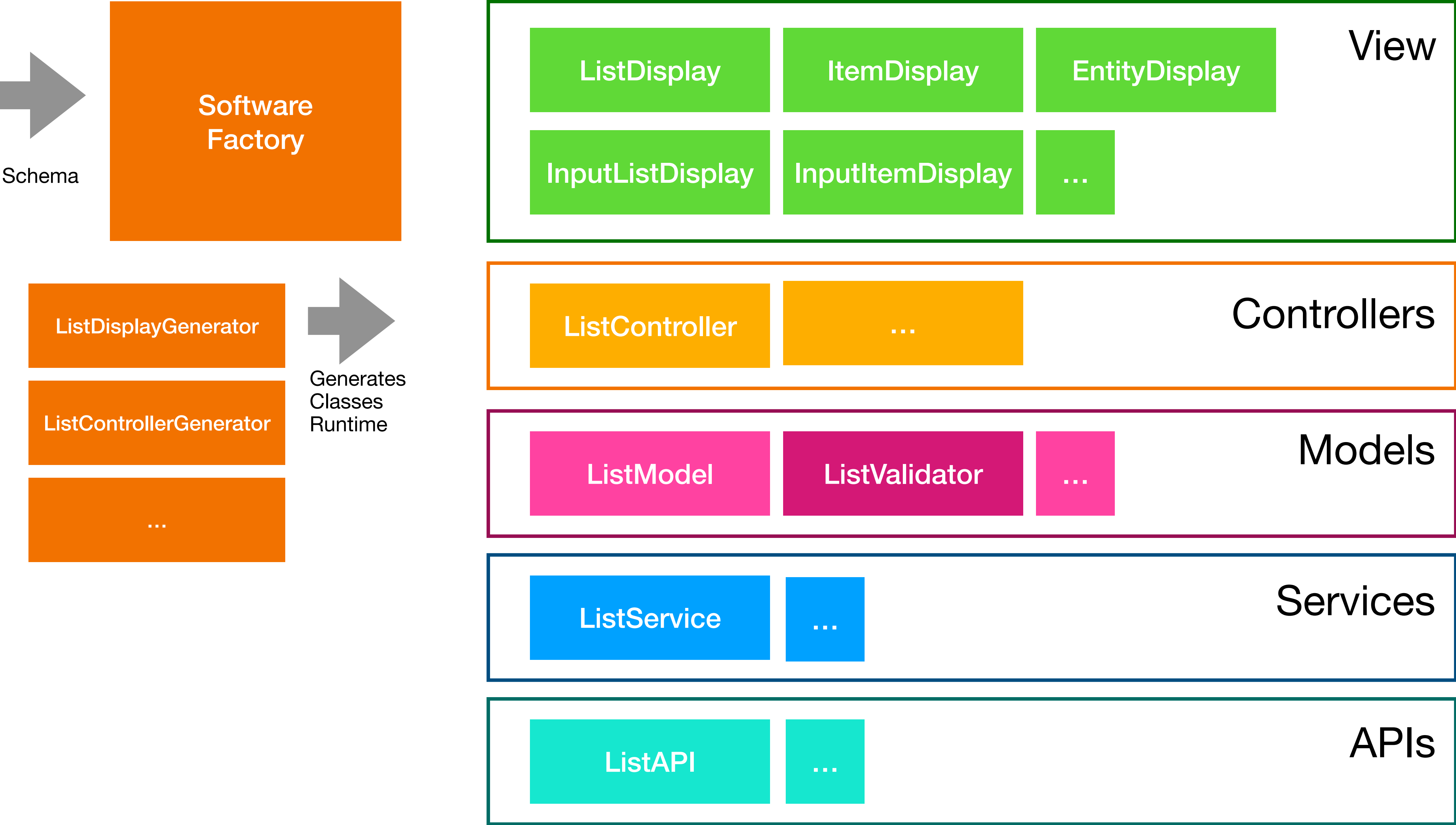
Application Factory



Application Factory

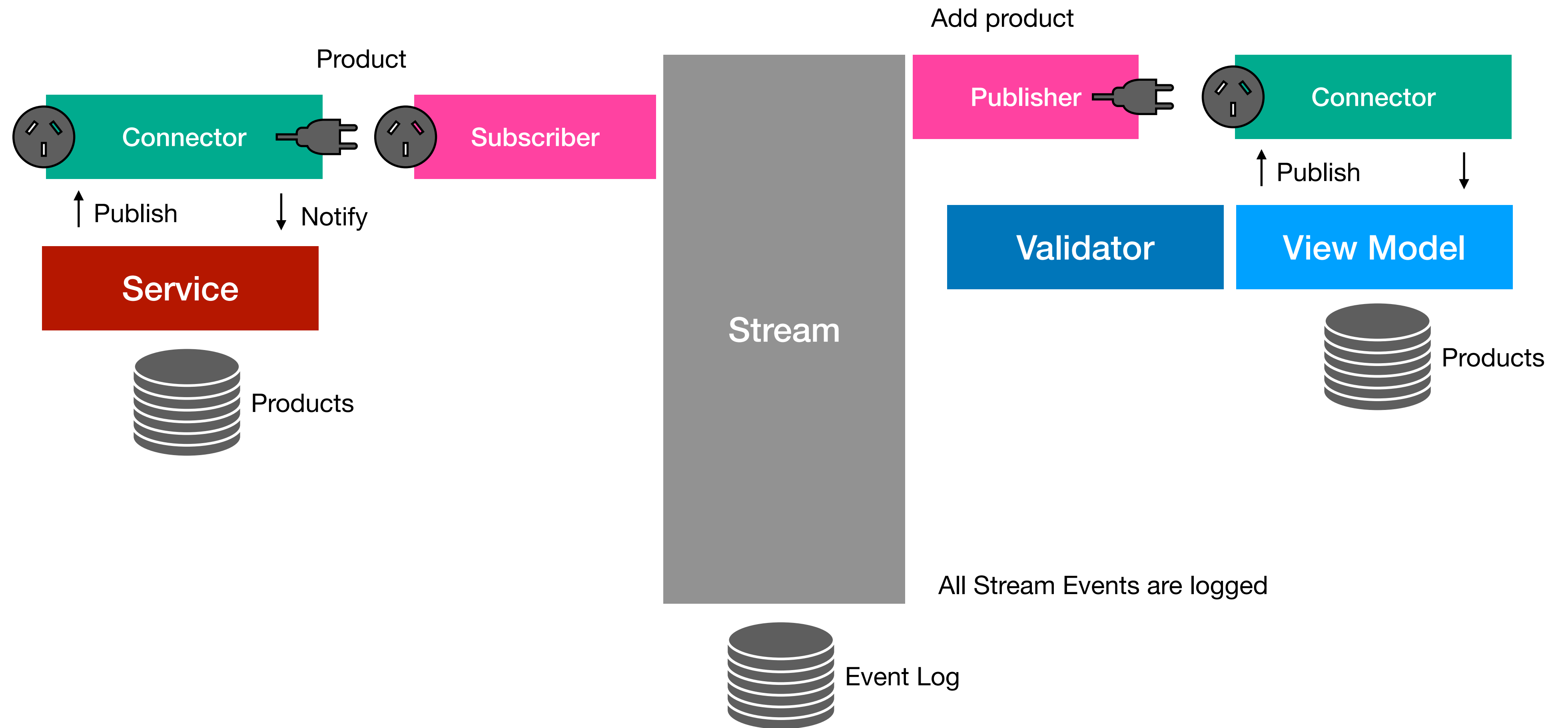


Entity Application outputs



Application Data Flow

Subscribing and Connecting to Stream Data



Connector in Detail

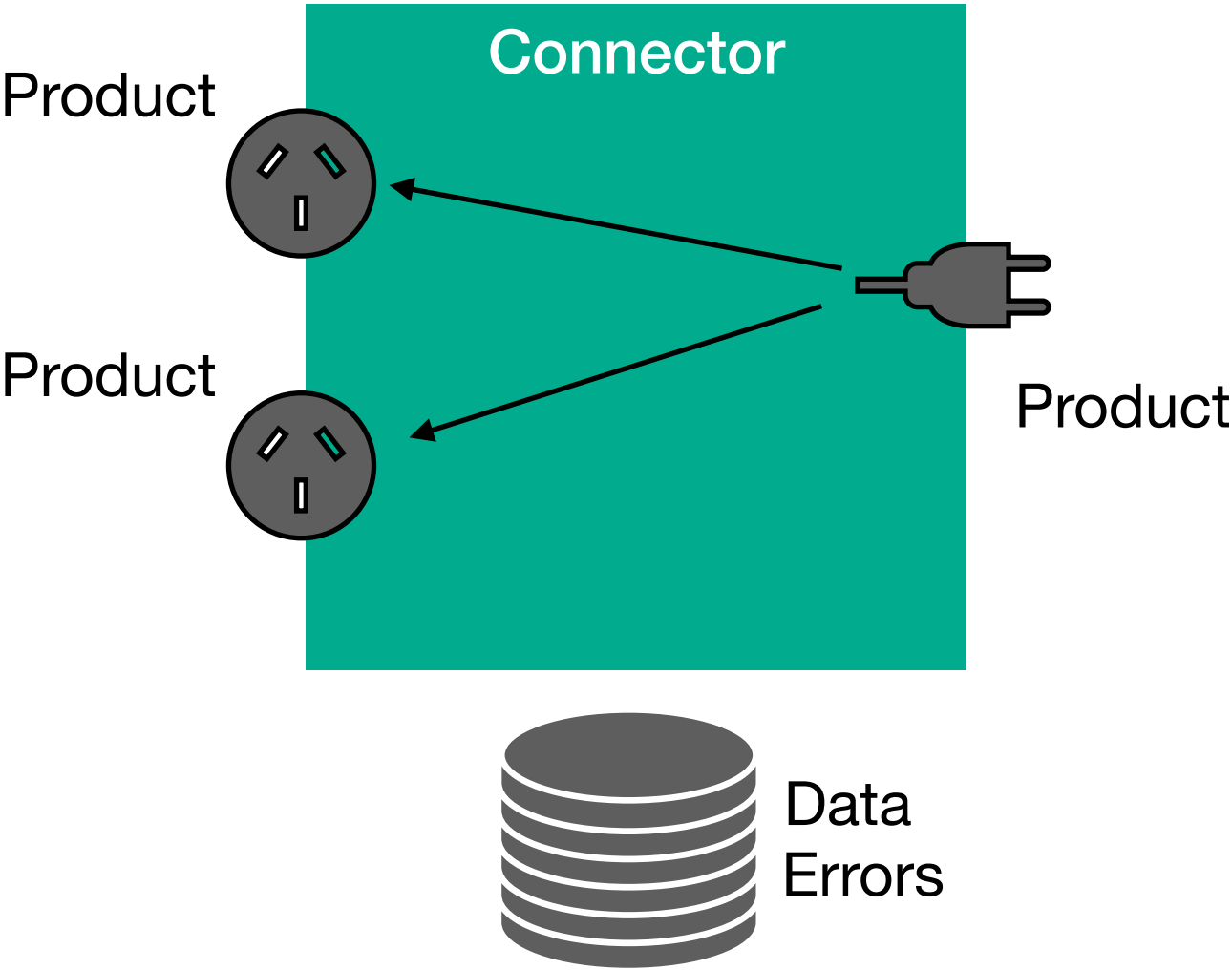
Product



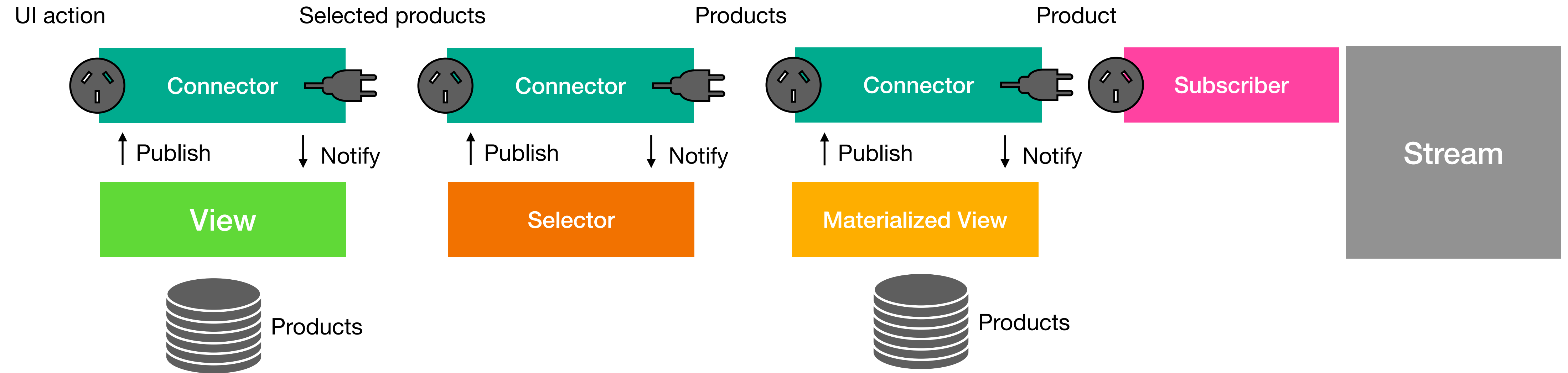
Product:data



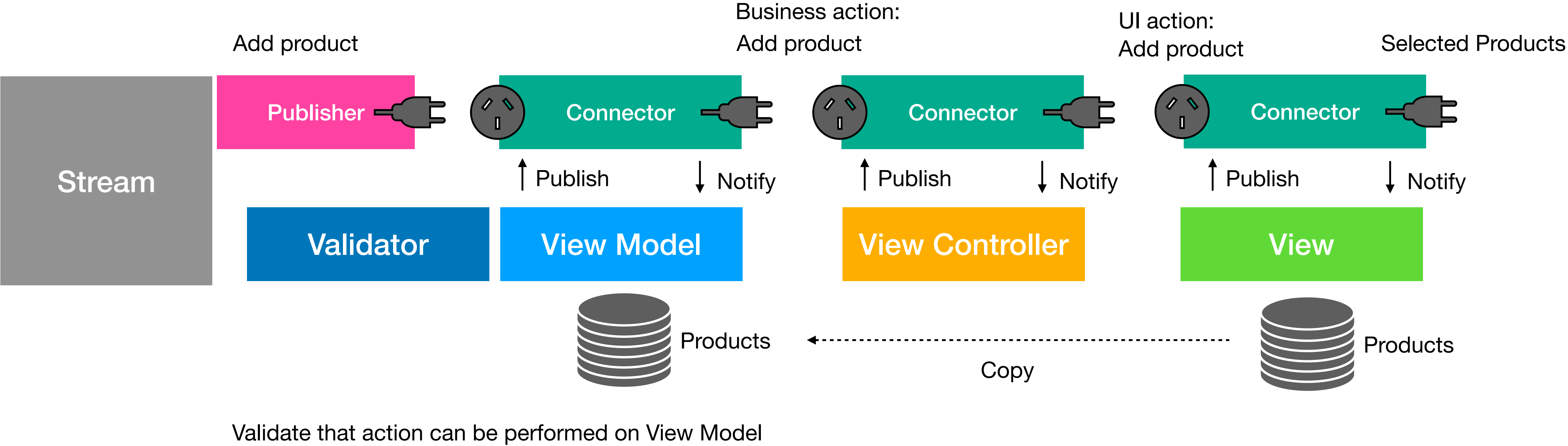
Product:errors



View subscribing to Materialized View

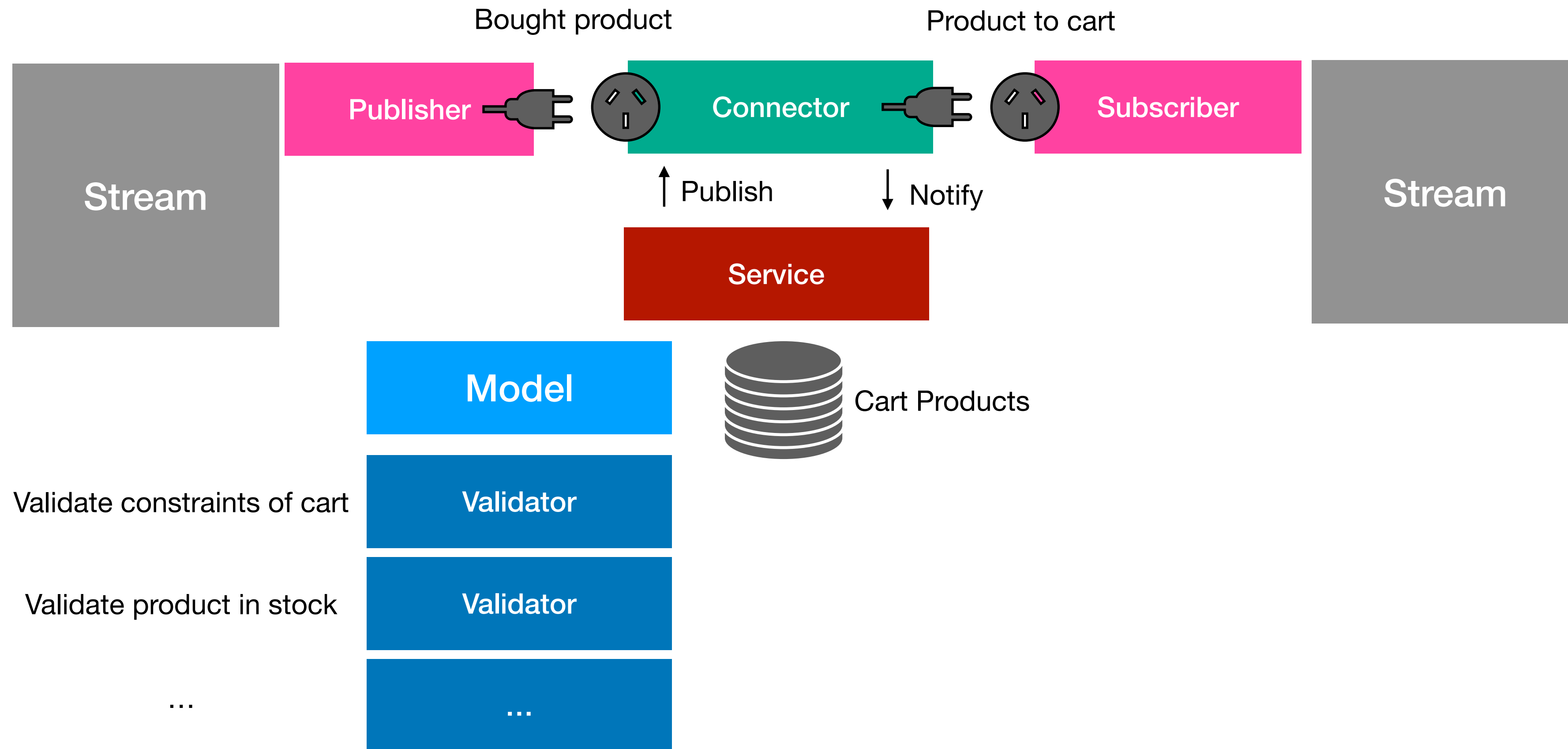


Model-View-Controller data flow

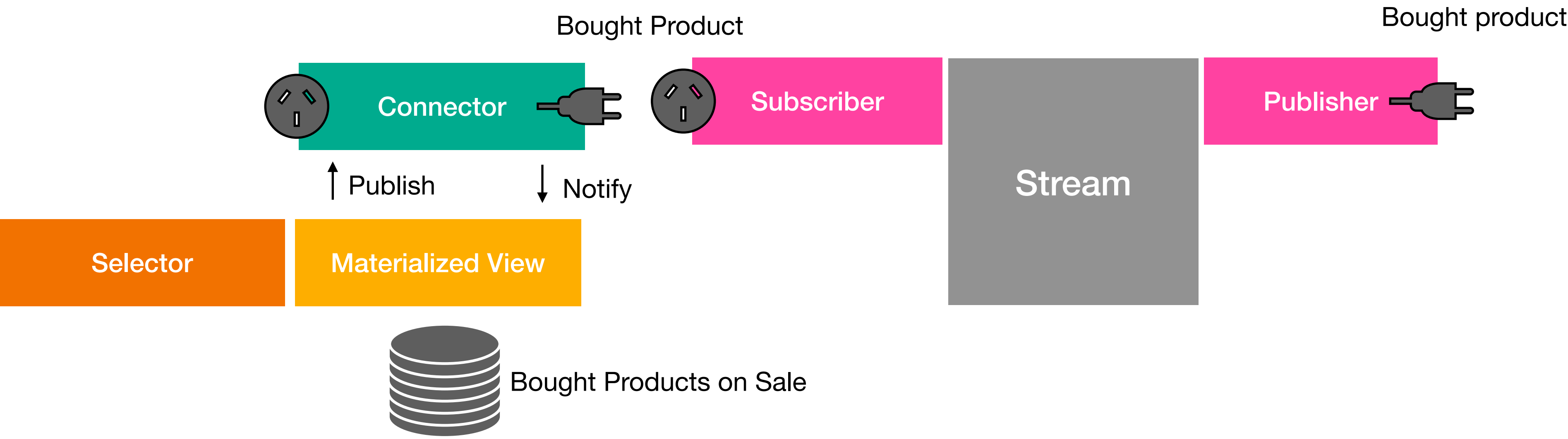


Service subscribing to Stream

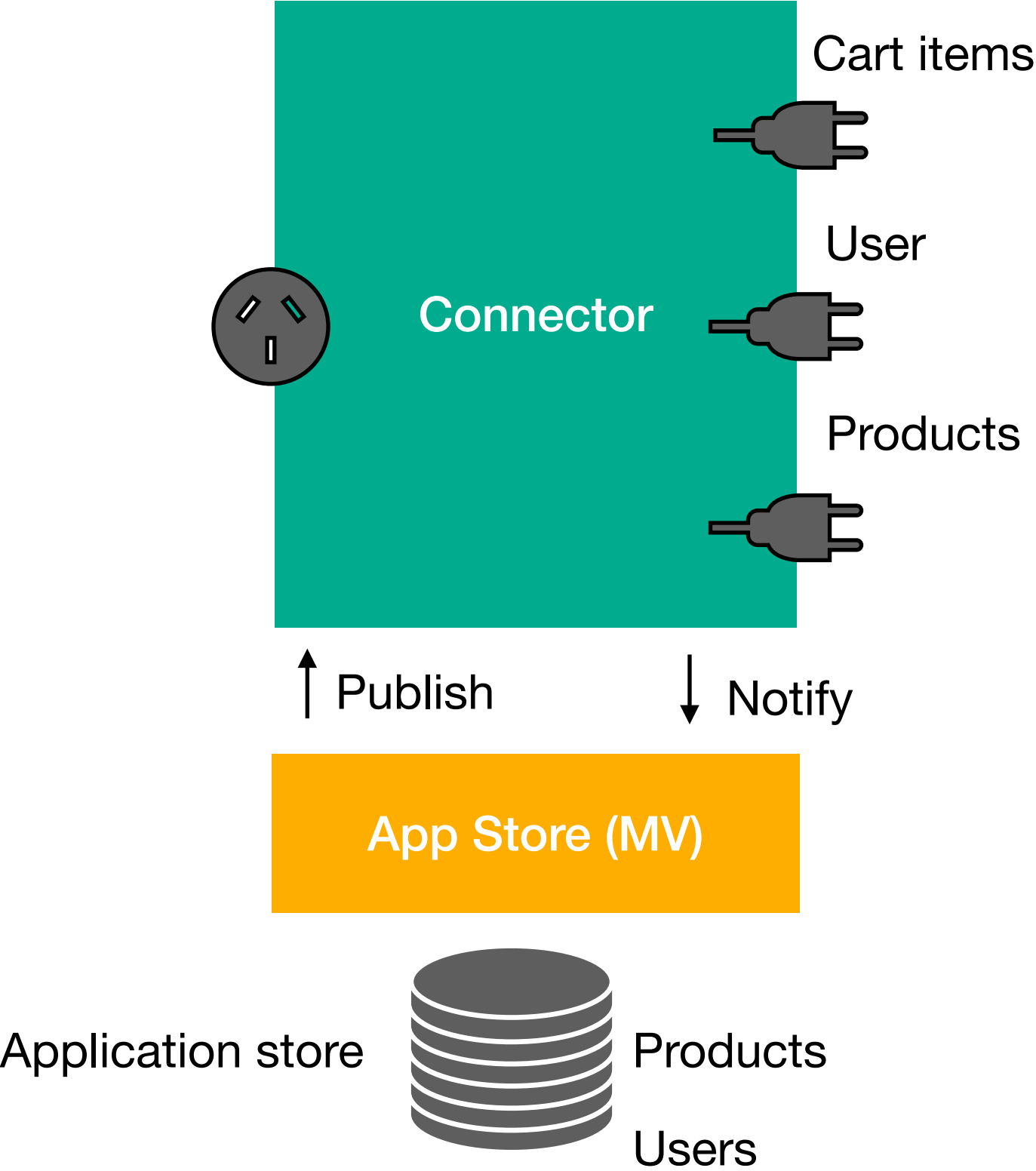
publishes new event - result of service



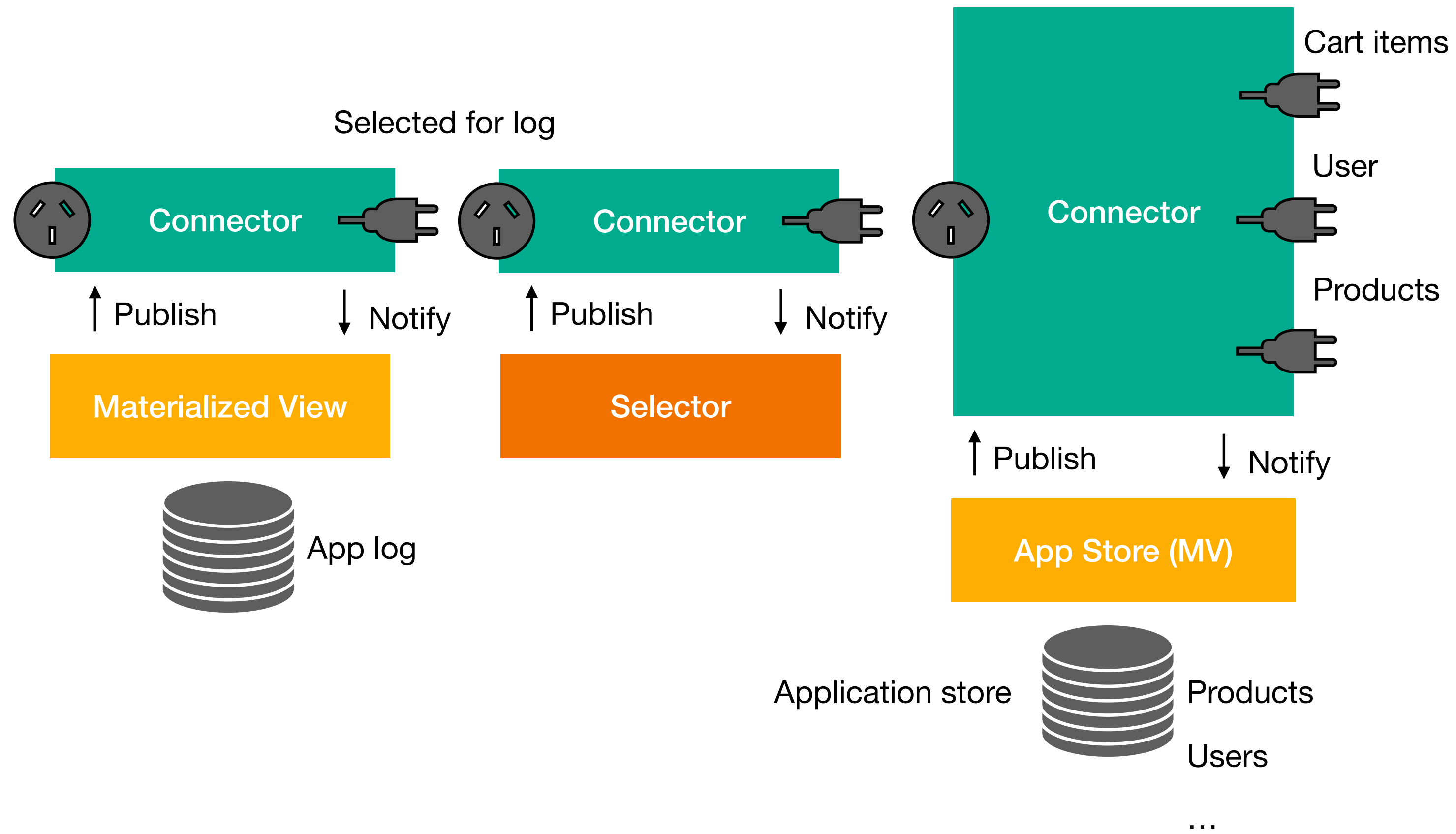
Materialized View subscribing to Stream



App Store as a Materialized View

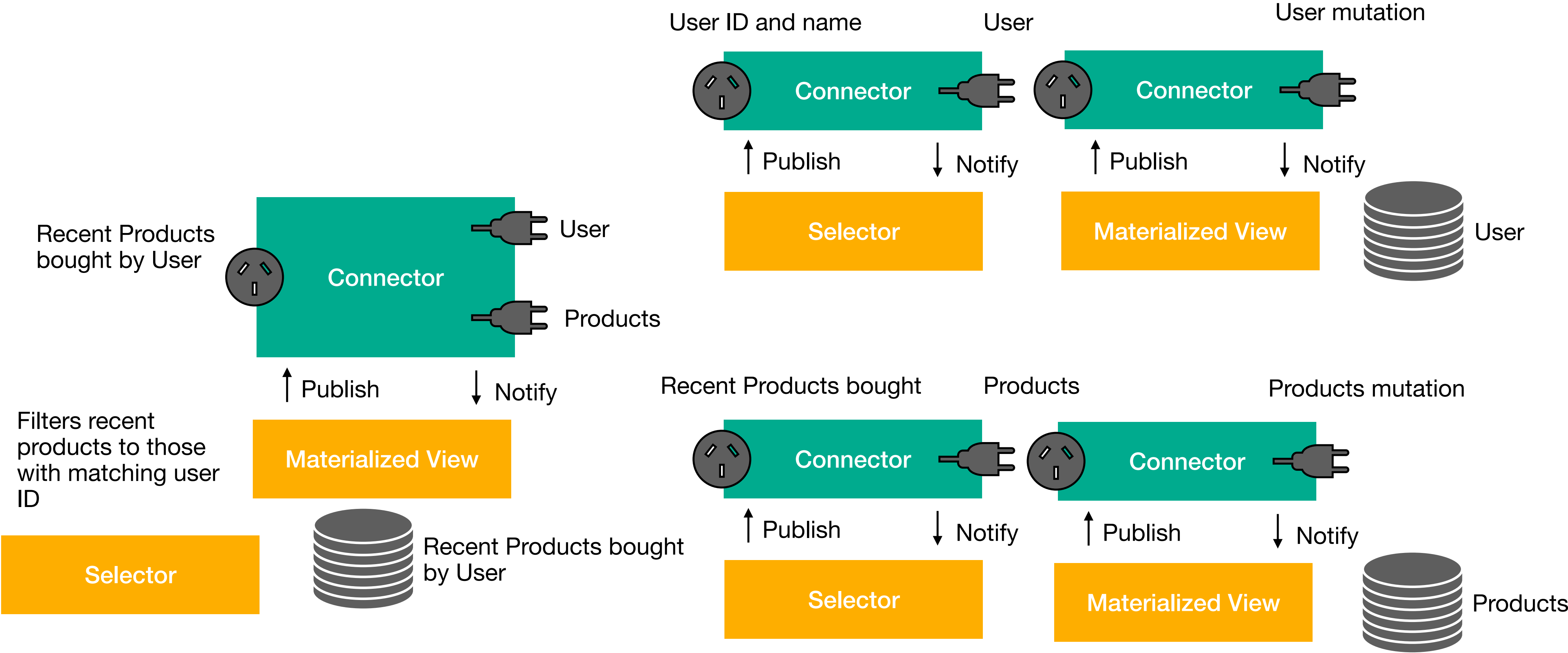


Application store and Application log



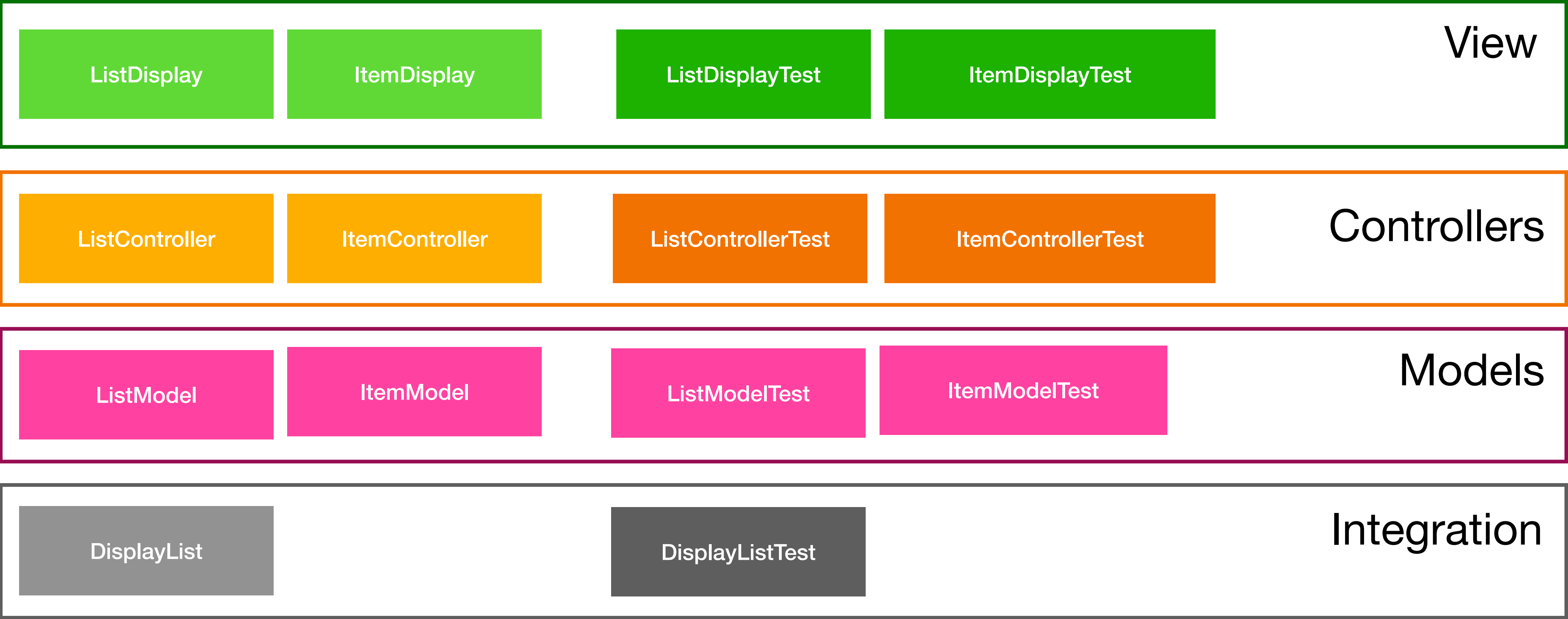
A View should NEVER select directly from Application store
A View should always select from a Materialized View with data specific for that view

Aggregate Material Views

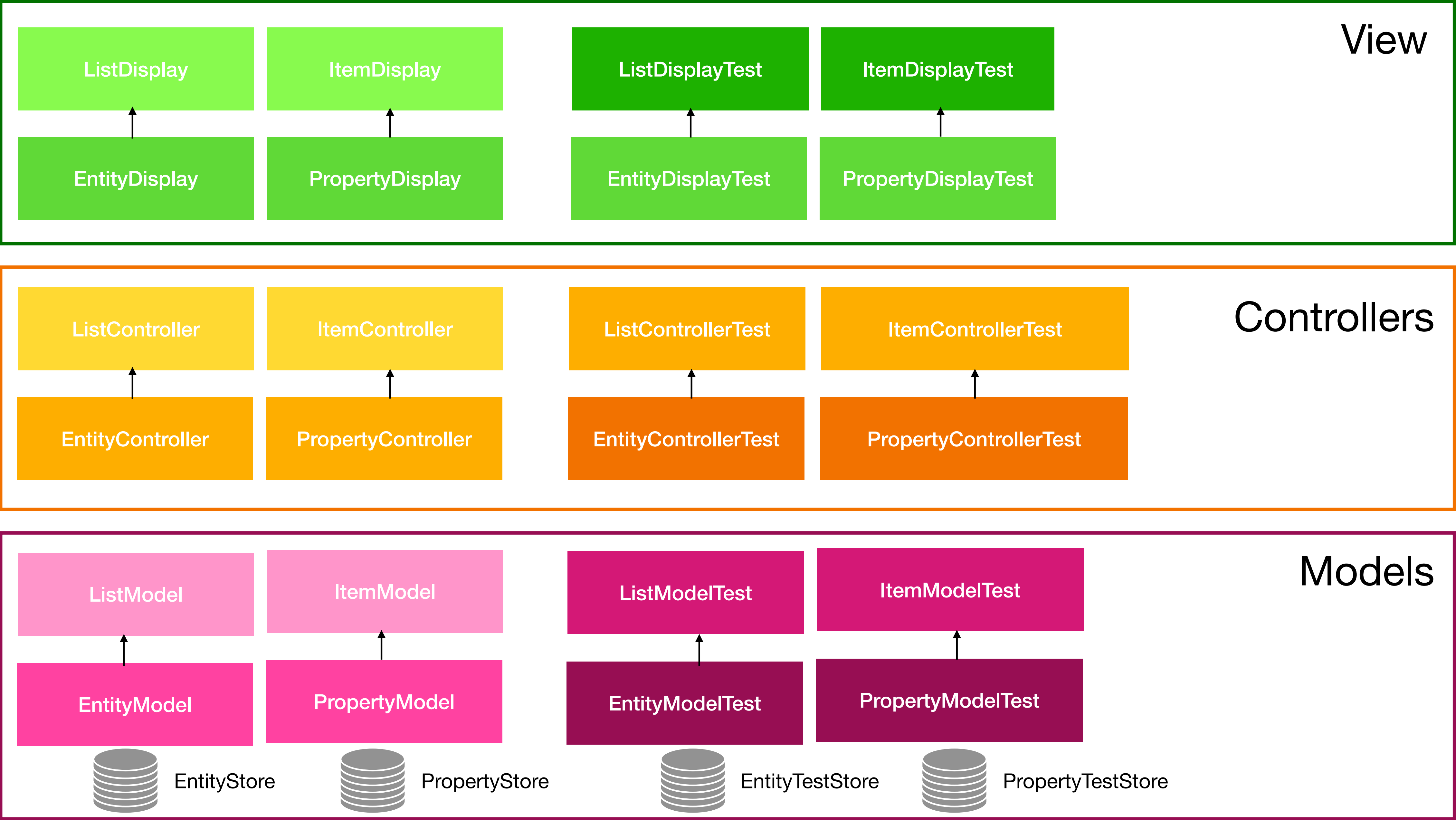


Classes generated

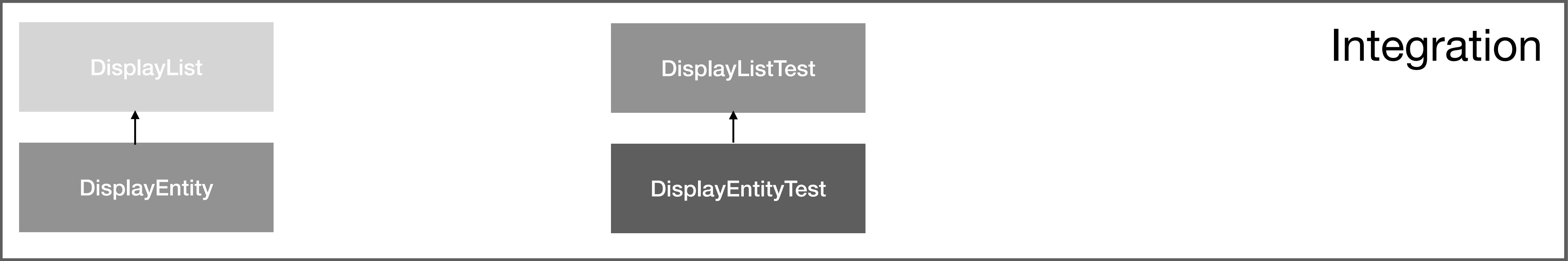
Entity Display Generators



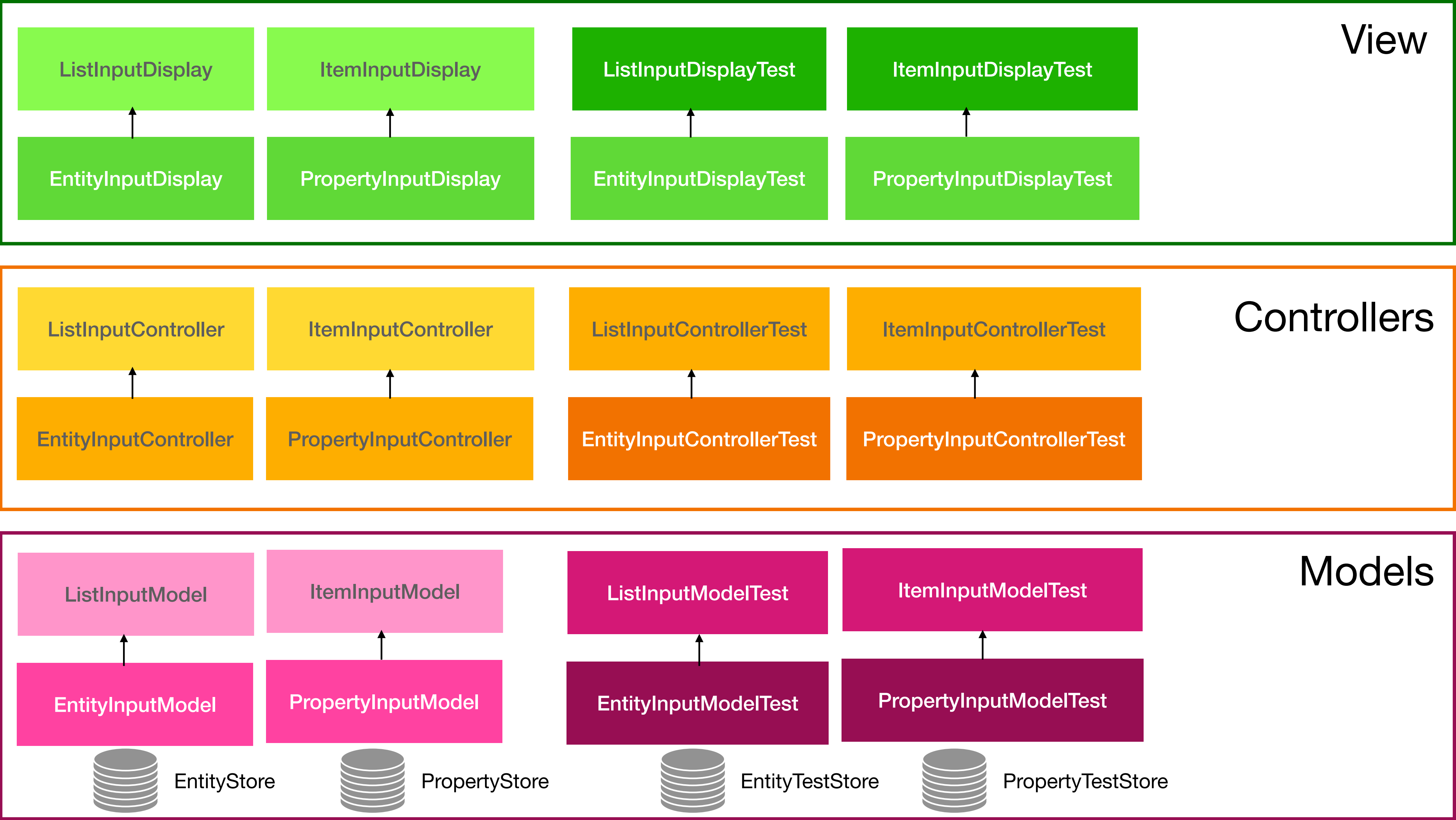
Entity Display Generators



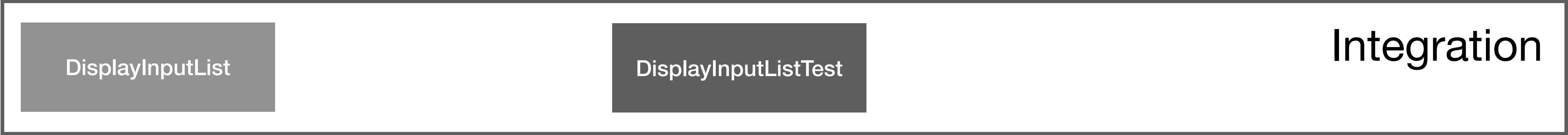
Entity Display Generators



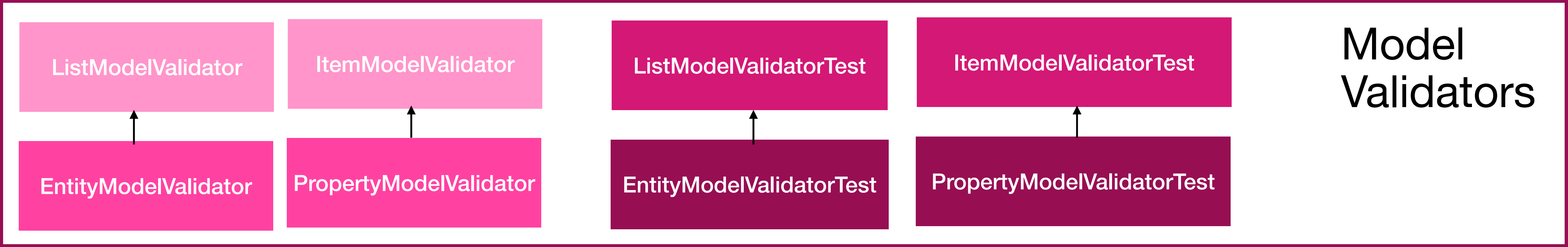
Entity Input Display Generators



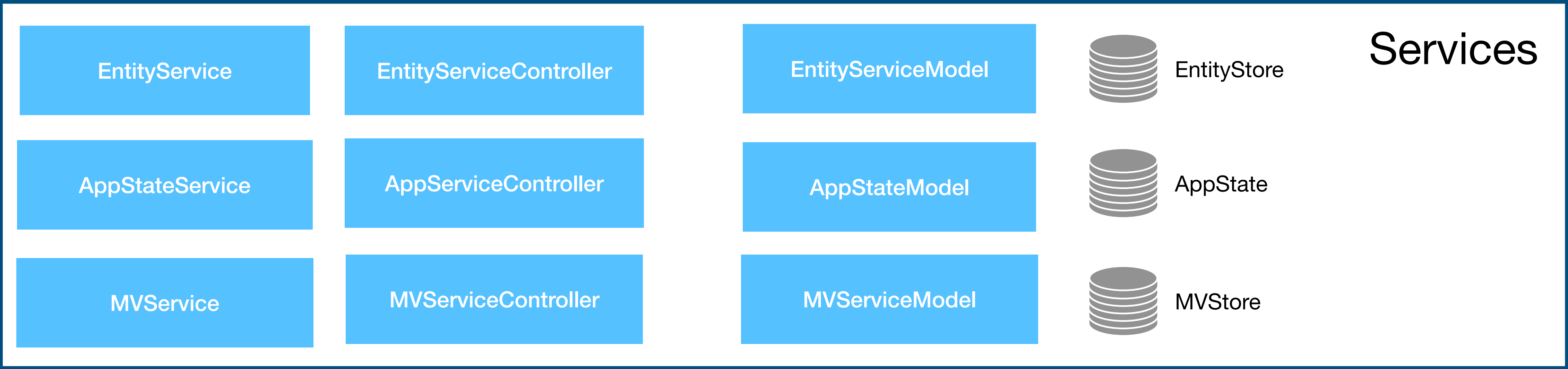
Entity Input Display Generators



Model Validators



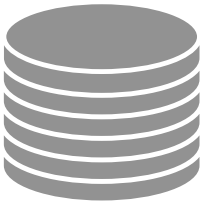
Services



MV - Materialized View

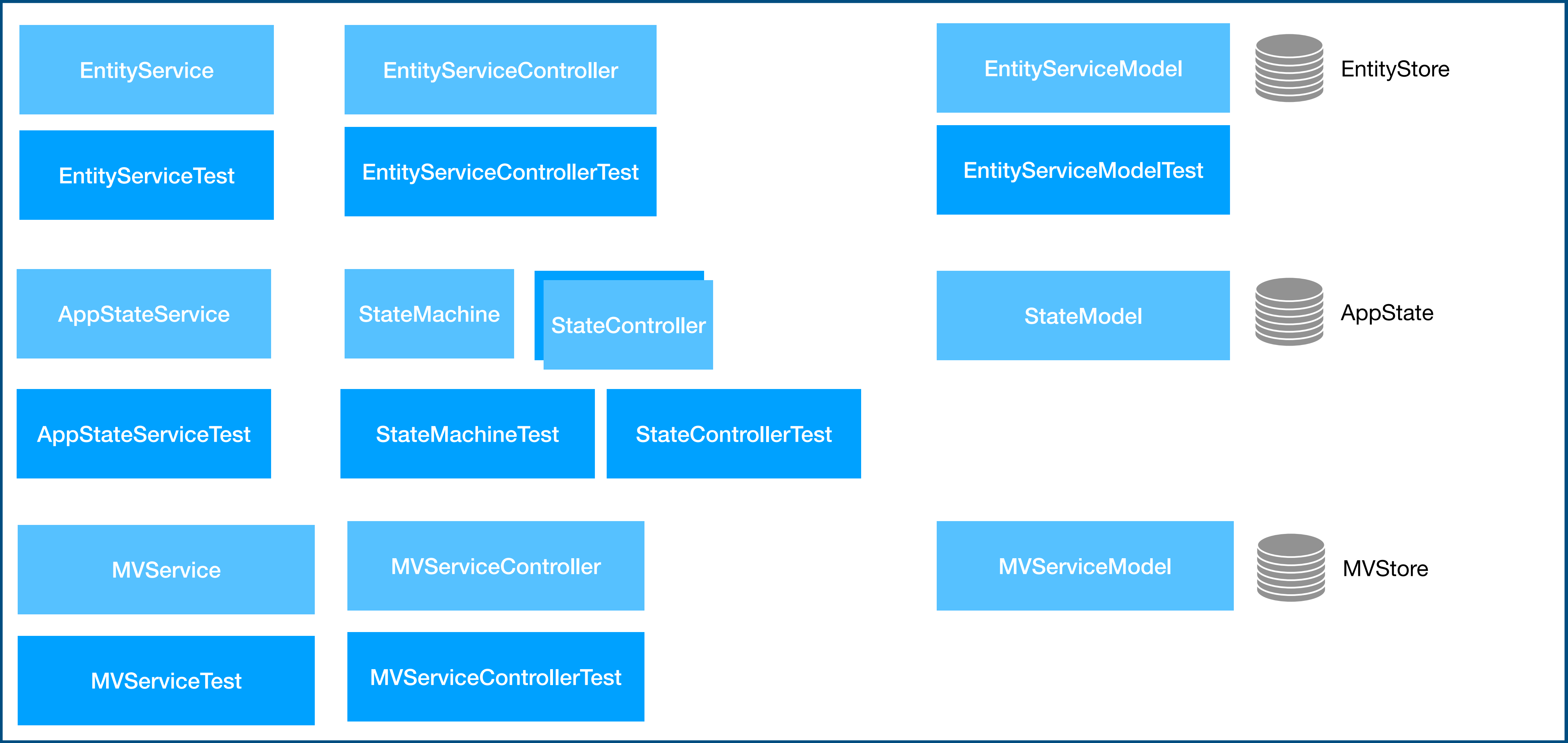
Services

Service	ServiceController	StateMachine	StateController	EntityServiceModel
ServiceTest	ServiceControllerTest	StateMachineTest	StateControllerTest	EntityServiceModelTest



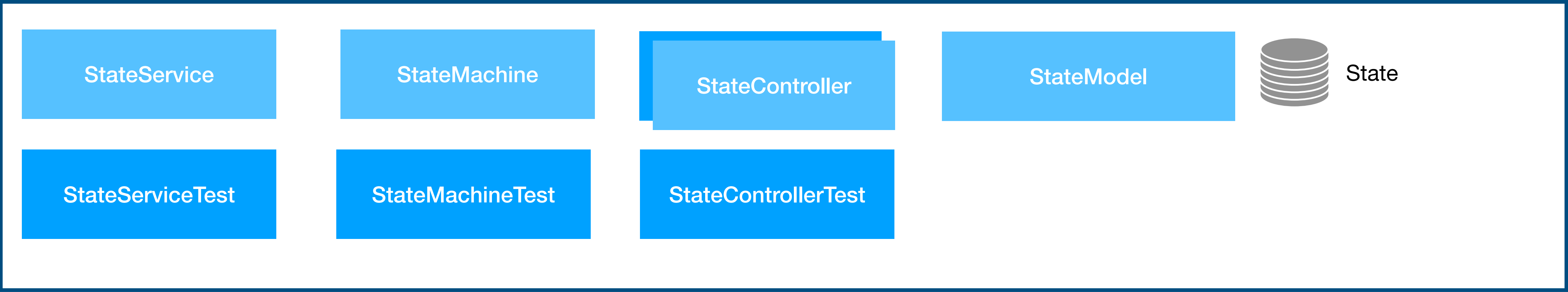
EntityStore

Services

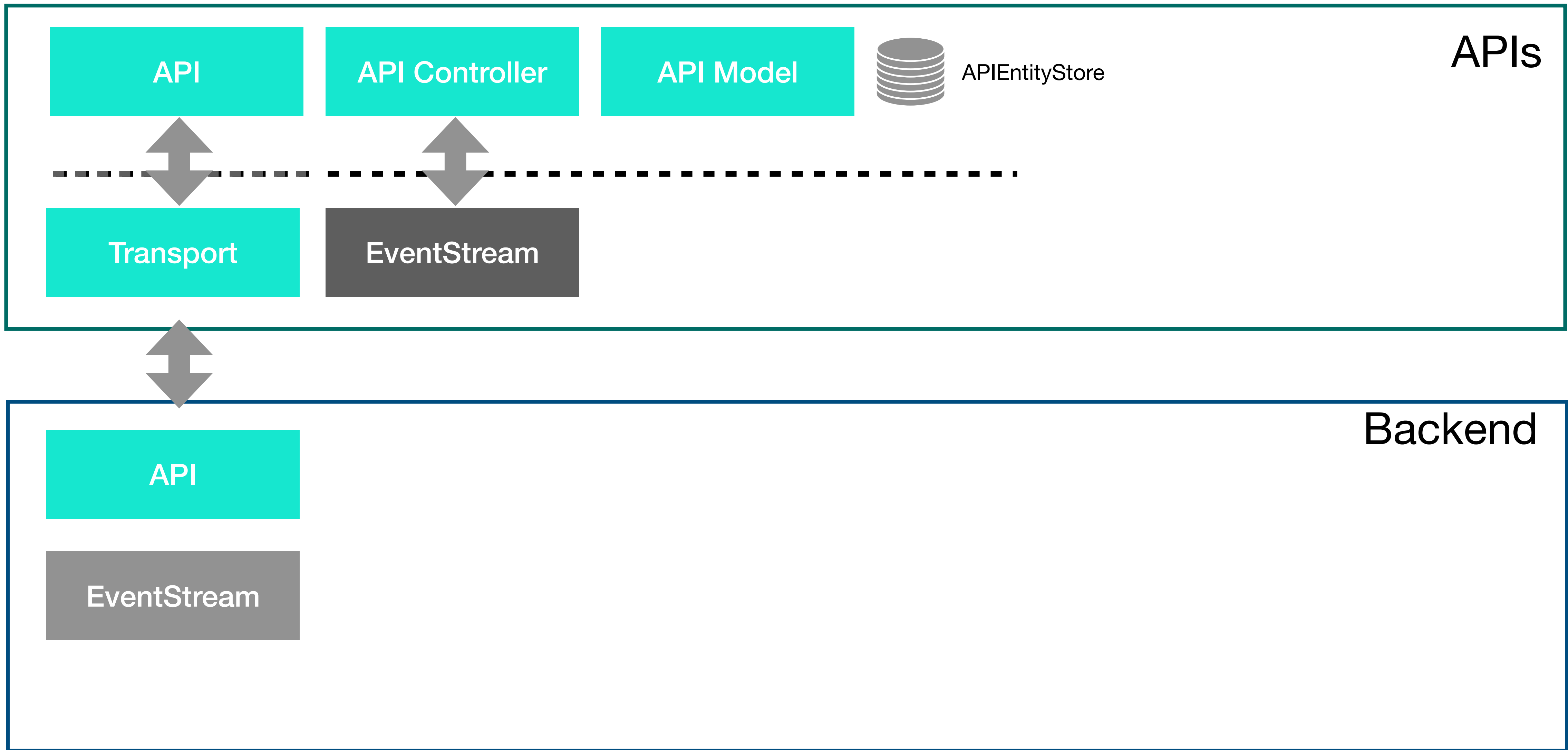


MV - Materialized View

State Machines

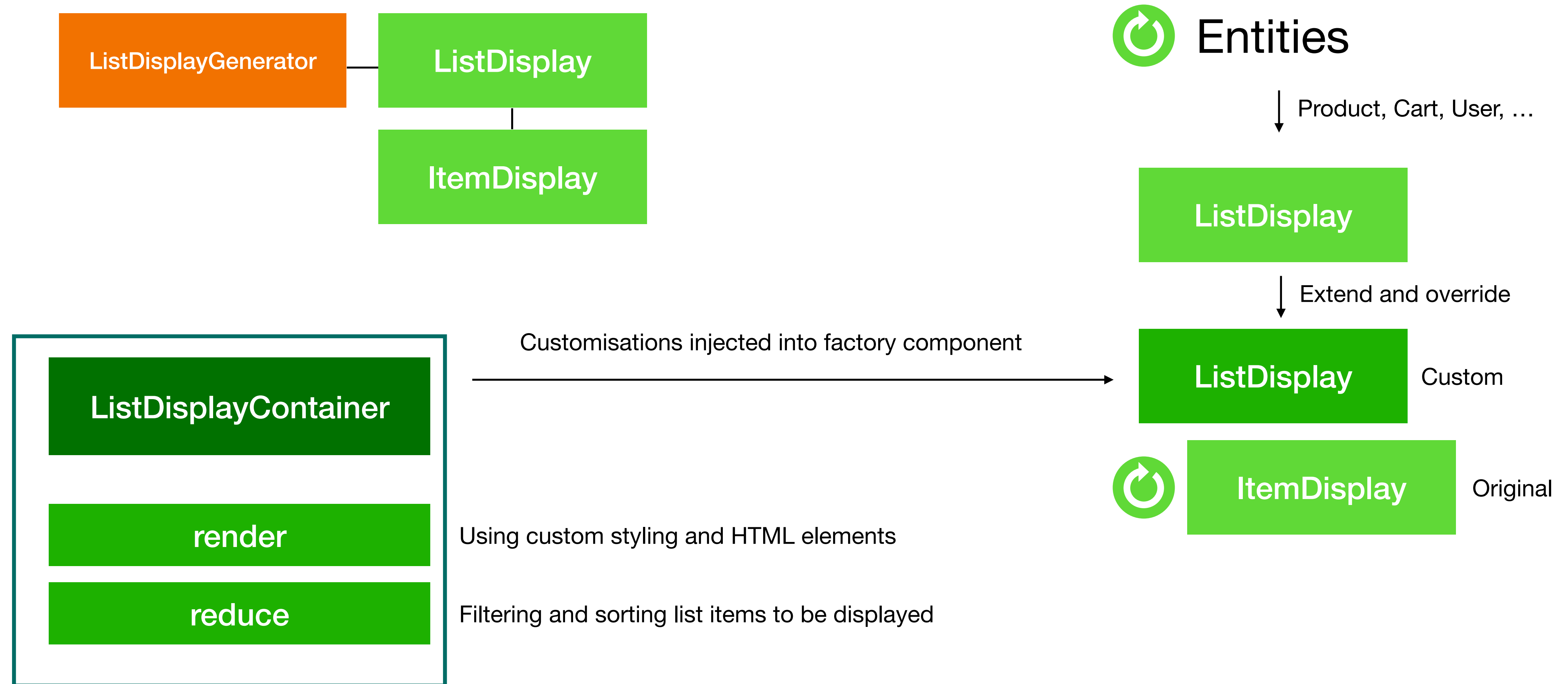


Entity APIs

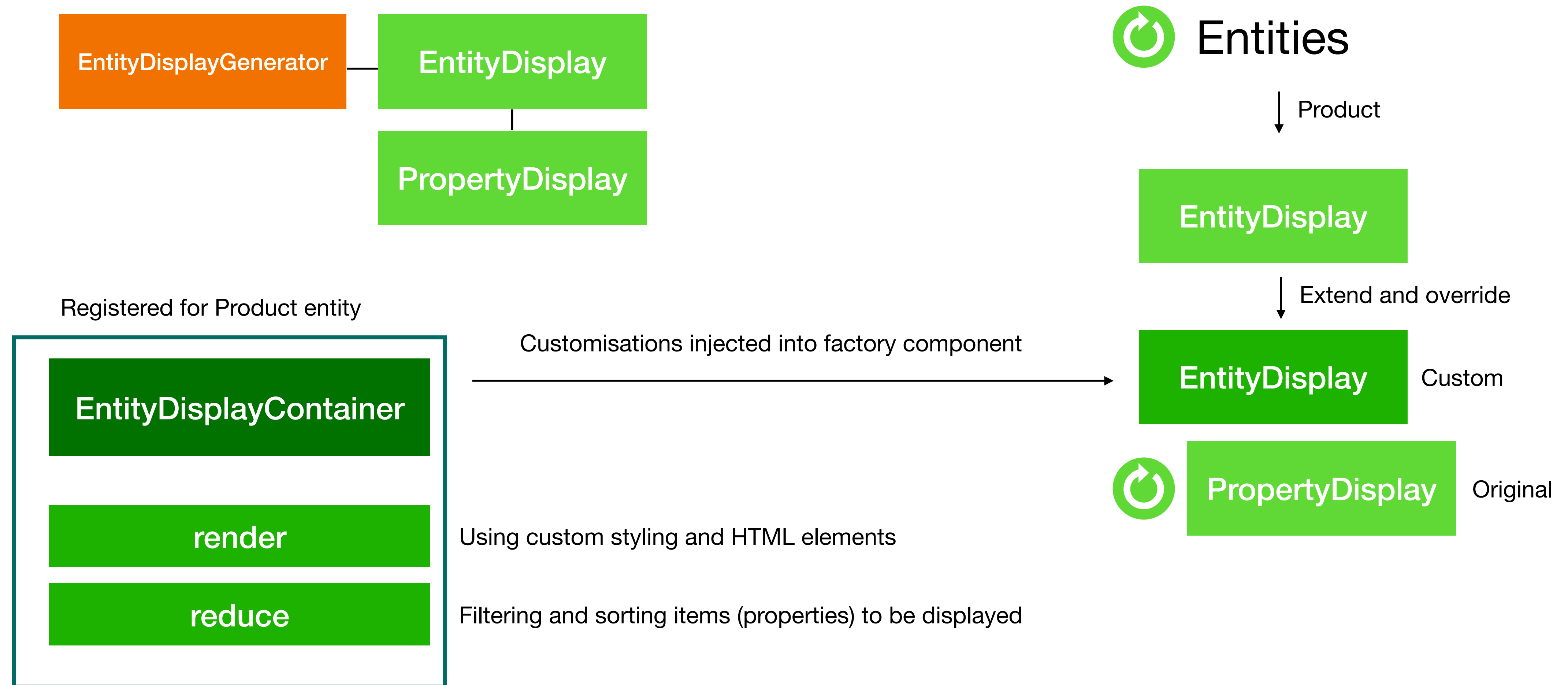


Application Customisations

Customizing all List Displays



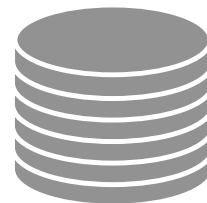
Customising specific Entity Displays



View hooks for specialisation

List Display

Displays list of entities or the properties of a single entity



Data

Selector

select

Selects items to display

View methods

render

itemsToDisplay

Custom methods

Actions

selectItem

removeItem

displayItem

removeAll

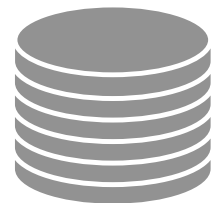
selectAll

Custom actions

Input List Display

Displays list of entity properties to edit (create, update or delete)

MV



Data

Selector

select

Selects items to display

View methods

render

itemsToDisplay

Custom methods

Actions

selectItem

updateItemValue

addItem

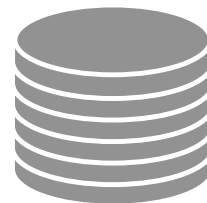
removeItem

Custom actions

Item Display

Displays single value, typically an entity property

MV



Data

Selector

select

Selects items to display

View methods

render

valueToDisplay

Custom methods

Actions

select

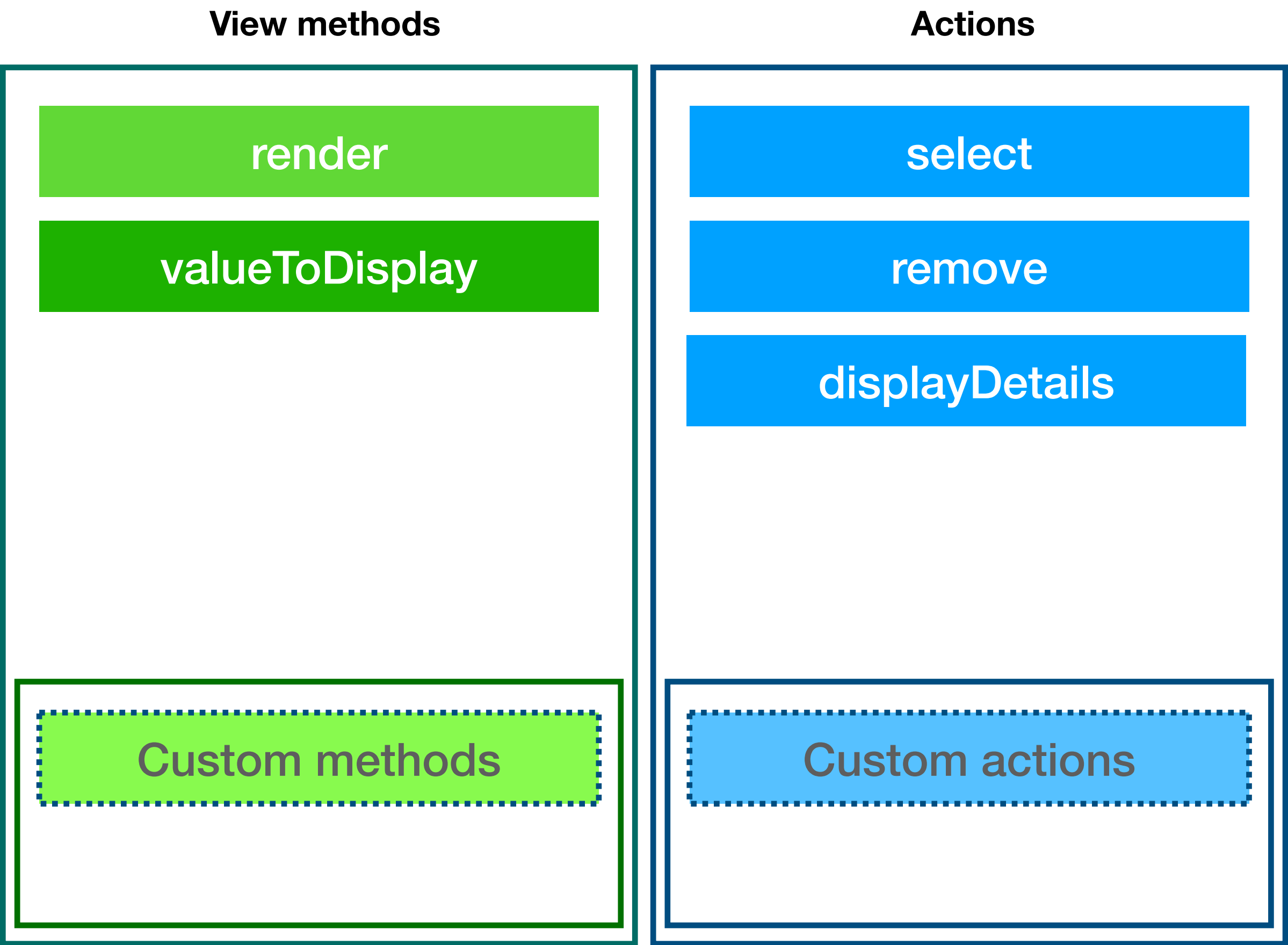
remove

displayDetails

Custom actions

Item Display

Rendered and Managed by List Display (acting as a Materialized view)



Input Item Display

Rendered and Managed by List Input Display (acting as a Materialized view)

