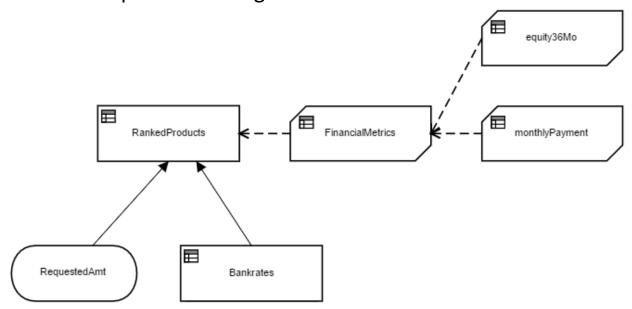
Decision Requirement Diagram



Elements

equity36Mo (Business Knowledge Model)

Output Data Type

Туре	Number	
------	--------	--

Decision Logic (Boxed Function)

```
equity36Mo

(p(Number)
, r(Number)
, n(Number)
, pmt(Number)
)

p*(1+r/12)**n - pmt*(-1+(1+r/12)**n)/r
```

RankedProducts (Decision)

Output Data Type

ype	tMetrics
-----	----------

Decision Logic (Boxed Context)

RankedProducts	
metricsTable (tMetrics)	for i in Bankrates return FinancialMetrics(i,RequestedAmt)
rankByRate (tMetrics)	<pre>sort(metricsTable, function(x,y) x.rate<y.rate)< pre=""></y.rate)<></pre>
rankByDownPmt	<pre>sort(metricsTable, function(x,y) x.downPmtAmt<y.downpmtamt)< pre=""></y.downpmtamt)<></pre>
rankByMonthlyPmt	<pre>sort(metricsTable, function(x,y) x.paymentAmt<y.paymentamt)< pre=""></y.paymentamt)<></pre>
rankByEquityPct	<pre>sort(metricsTable, function(x,y) x.equity36moPct>y.equity36moPct)</pre>

FinancialMetrics (Business Knowledge Model)

Output Data Type

Type tMetrics	
---------------	--

Decision Logic (Boxed Function Context)

FinancialMetrics	
<pre>(product(tLoanProduct) , requestedAmt(Number))</pre>	
lenderName	product.lenderName
rate	product.rate
points	product.points
fee	product.fee

loanAmt	requestedAmt*(1+points/100)+fee
downPmtAmt	0.2*loanAmt
paymentAmt	monthlyPayment(loanAmt,rate,360)
equity36moPct	<pre>1 - equity36Mo(loanAmt,rate,36,paymentAmt)/requestedAmt*0.8</pre>

monthlyPayment (Business Knowledge Model)

Output Data Type

Type	Number	

Decision Logic (Boxed Function)

monthly Payment

```
(p(Number)

F
, r(Number)
, n(Number)
```

RequestedAmt (Input Data)

Output Data Type

Type Number

Bankrates (Decision)

Output Data Type

Type tLoanTable	
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Decision Logic (Relation)

Bankrates

lenderName	rate	points	fee
Oceans Capital	.03500	0	0
eClick Lending	.03200	1.1	2700
eClickLending	.03375	0.1	1200
AimLoan	.03000	1.1	3966
Home Loans Today	.03125	1.1	285
Sebonic	.03125	0.1	4028
AimLoan	.03125	0.1	4317
eRates Mortgage	.03125	1.1	2518
Home Loans Today	.03250	0.1	822
AimLoan	.03250	0	1995