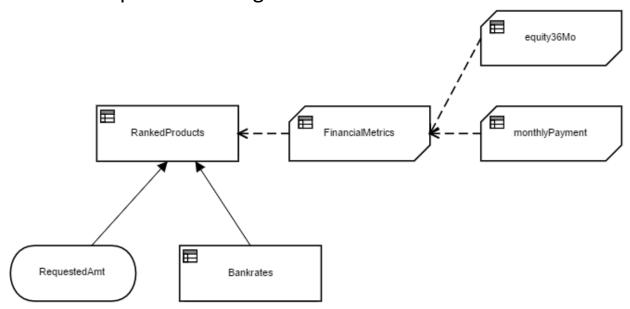
Decision Requirement Diagram



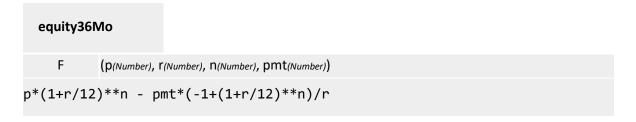
Elements

equity36Mo (Business Knowledge Model)

Output Data Type

Туре	Number
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Decision Logic (Boxed Function)



RankedProducts (Decision)

Output Data Type

Type tRankedProducts

Decision Logic (Boxed Context)

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

FinancialMetrics (Business Knowledge Model)

Output Data Type

Decision Logic (Boxed Function Context)

FinancialMetrics	
(product(tLoanProduct), requestedAmt(Number))	
lenderName (Text)	product.lenderName
rate (Number)	product.rate
points (Number)	product.points
fee (Number)	product.fee
loanAmt (Number)	requestedAmt*(1+points/100)+fee
downPmtAmt (Number)	0.2*loanAmt

paymentAmt (Number)	monthlyPayment(loanAmt,rate,360)	
equity36moPct (Number)	<pre>1 - equity36Mo(loanAmt, rate, 36, paymentAmt) /requestedAmt*0.8</pre>	

monthlyPayment (Business Knowledge Model)

Output Data Type

Type Number	
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Decision Logic (Boxed Function)

monthlyPayment

F (p(Number), r(Number), n(Number))

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

RequestedAmt (Input Data)

Output Data Type

Туре	Number
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Bankrates (Decision)

Output Data Type

Туре	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