Business Rules in JavaScript from Symbolic Expressions

The Rules can be authored as a Symbolic Expression using the SLANG language (available @ http://slangfordotnet.codeplex.com) and the JavaScript language backend of the Compiler will be used to generate equivalent JSON .

The Excel Spread sheet will contain three worksheets viz

A) Variables (Environment)
B) RuleText
C) ProgramToRule mapping

As an Example , A Elligibility rule based on some Variables are given below

A) Variables (Environment)

VariableName	Type	Remarks	DefaultValue
TA	Numeric	Travelling Allowance	0
DA	Numeric	Dearness Allowance	0
BASIC	Numeric	Basic Salary	0
HRA_DEDUCTION	Numeric	HRA allowance	0
OTHER_DEDUCTIO N	Numeric	Other Deduction	0
SEX	STRING	"F" or "M"	M
Handicapped	Boolean	TRUE Or FALSE	TRUE

B) RuleText Sheet contains

Rulename	RuleText	Remarks
R1	Numeric Temp; Numeric Temp1; Temp = (TA + DA + BASIC); Temp1 = (HRA_DEDUCTION +	

	OTHER_DEDUCTION); Temp1 = Temp - Temp1; return Temp1 < 10000;	
R2	return SEX == "F";	
R3	return SEX == "M" && HandiCapped == TRUE;	

C) The ProgramToRuleMappings contain

ProgramName	Expression	Remarks
P1	R1 Xor R2	Only R1 or R2 should be true not both
P2	R1 OR R3	R1 or R3 can be true

The Spreadsheet can be used as a input to generate the JSON.